REVIEW COMMENT RECORD (RCR)

1. Date	2. Review No.
9/16/2010	
3. Project No.	Page 1 of 1

5. Document Number(s)/Title(s)	6. Program/Project/Building Number	7. Reviewer	8. Organization/Group	9. Location/Phone
VSR10-024 Data Validation Report for CH2M HILL Plateau Remediation Company – Project WMA C, Chemical Validation – Level C	WRPS	HL Anastos	Closure and Corrective Measures	1200 Jadwin/ Rm. 301 373-2616

17. Comment Submittal Approval	10. Agreement With Indicated Comment Disposition(s)	11. CLOSED
9/16/2010 HLAnastos HLAnastos Date Organization Manager (optional) (print and sign)	N/A Reviewer/Point of Contact (print and sign) Date Author/Originator (print and sign)	HLAnastos HLAnastos Reviewer/Point of Contact (print and sign) 9/16/2010 Date Author/Originator (print and sign)

12. Item	13a. Comments	13b. Basis	13c. Recommendation	14. Reviewer Concurrence Required (Y or N)	15. Disposition (provide justification if **NOT** accepted)	16. Status
1	No comments			N		

CHPRC - REVIEW COMMENT RECORD (RCR)

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09/16/2010	n/a
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5. Document Number(s)/Title(s)	6. Program/Project/Building Number	7. Reviewer	8. Organization/Group	9. Location/Phone
VSR10-24	WMA C Vadose Zone Program	Kathi Dunbar	Closure & Corrective Measures	1200 Jadwin 376-2002

17. Comment Submittal Approval	10. Agreement With Indicated Comment Disposition(s)	11. CLOSED
9-16-10 Date	Reviewer/Point of Contact (print and sign)	Kathi Dunbar Reviewer/Point of Contact (print and sign)
Organization Manager (optional) (print and sign)	9-16-10 Date	9-16-10 Date
	Kathi Dunbar Author/Originator (print and sign)	Author/Originator (print and sign)

12. Item	13a. Comments	13b. Basis	13c. Recommendation	14. Reviewer Concurrence Required (Y or N)	15. Disposition (provide justification if **NOT** accepted)	16. Status
	No comments			N		Closed

ANALYTICAL QUALITY ASSOCIATES, INC.
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Albuquerque, NM 87123
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Data Validation Report for CH2M Hill Plateau Remediation Company

VSR10-024
Project WMA C

Chemical Validation - Level C

Validation Performed By: Carl Schlosser **Date:** 9-13-2010

Validation Reviewed By: Cheryl A. Schlosser **Date:** 9-13-2010

TABLE OF CONTENTS

Semivolatile Organics

Memorandum	1
Appendix 1 – Glossary of Data Reporting Qualifiers	8
Appendix 2 – Summary of Data Qualification	10
Appendix 3 – Annotated Laboratory Reports	15
Appendix 4 – Laboratory Narrative and Chain-of-Custody Documentation	98
Appendix 5 – Data Validation Supporting Documentation	293
Appendix 6 – Additional Documentation Requested By Client	306

Pesticides

Memorandum	392
Appendix 1 – Glossary of Data Reporting Qualifiers	398
Appendix 2 – Summary of Data Qualification	400
Appendix 3 – Annotated Laboratory Reports	406
Appendix 4 – Laboratory Narrative and Chain-of-Custody Documentation	428
Appendix 5 – Data Validation Supporting Documentation	623
Appendix 6 – Additional Documentation Requested By Client	629

PCBs - Aroclors

Memorandum	642
Appendix 1 – Glossary of Data Reporting Qualifiers	646
Appendix 2 – Summary of Data Qualification	648
Appendix 3 – Annotated Laboratory Reports	650
Appendix 4 – Laboratory Narrative and Chain-of-Custody Documentation	666
Appendix 5 – Data Validation Supporting Documentation	861
Appendix 6 – Additional Documentation Requested By Client	866

PCBs - Congeners

Memorandum	868
Appendix 1 – Glossary of Data Reporting Qualifiers	872
Appendix 2 – Summary of Data Qualification	874
Appendix 3 – Annotated Laboratory Reports	879
Appendix 4 – Laboratory Narrative and Chain-of-Custody Documentation	1064
Appendix 5 – Data Validation Supporting Documentation	1083
Appendix 6 – Additional Documentation Requested By Client	1089
Appendix 7 – Excerpt from the Model Data Validation Procedure	1120

Date: 13 September 2010
To: CH2M Hill (technical representative)
From: Analytical Quality Associates, Inc.
Project: WMA C
Subject: Semivolatile Organics - Sample Data Groups (SDGs) 20090161, 20090329, 20090378, 20090365, 20090454, 20090574, 20090575, 20090608, 20090877 and 20090878

INTRODUCTION

This memorandum presents the results of data validation for SDGs 20090161, 20090329, 20090378, 20090365, 20090454, 20090574, 20090575, 20090608, 20090877 and 20090878 prepared by RJ Lee*Group*, Inc., Center for Laboratory Sciences. A list of samples validated along with the analytical methods is provided in the following table.

Sample ID	Sample Date	Media	Validation Level	Analytical Method
WA210420090001-001	4-19-2009	Soil	C	See notes 1 & 2
WA270420090001-001	4-21-2009	Soil	C	See note 2
WA270420090001-002	4-22-2009	Soil	C	See note 2
WA070520090005-001	4-30-2009	Soil	C	See note 2
WA070520090005-002	4-30-2009	Soil	C	See note 2
WA210520090002-001	5-13-2009	Soil	C	See note 2
WA020620090001-001	5-18-2009	Soil	C	See note 2
WA020620090001-002	5-18-2009	Soil	C	See note 2
WA020620090001-003	5-19-2009	Soil	C	See note 2
WA020620090002-001	5-21-2009	Soil	C	See notes 1 & 2
WA020620090002-002	5-21-2009	Soil	C	See notes 1 & 2
WA110620090001-001	6-01-2009	Soil	C	See note 2
WA110620090002-001	6-04-2009	Soil	C	See note 2
WA110620090002-002	6-04-2009	Soil	C	See note 2
WA110620090003-001	6-03-2009	Soil	C	See notes 1 & 2
WA110620090003-002	6-04-2009	Soil	C	See notes 1 & 2
WA150620090004-001	6-09-2009	Soil	C	See note 2
WA150620090004-002	6-09-2009	Soil	C	See note 2
WA220620090005-001	6-15-2009	Soil	C	See notes 1 & 2
WA220620090005-002	6-15-2009	Soil	C	See notes 1 & 2
WA220620090005-003	6-15-2009	Soil	C	See notes 1 & 2
WA120820090018-001	8-03-2009	Soil	C	See note 2
WA120820090018-002	8-04-2009	Soil	C	See note 2
WA120820090018-003	8-04-2009	Soil	C	See note 2
WA110820090010-001	7-30-2009	Soil	C	See notes 1 & 2
WA110820090010-002	7-30-2009	Soil	C	See notes 1 & 2
WA110820090010-003	7-30-2009	Soil	C	See notes 1 & 2
WA110820090010-004	7-30-2009	Soil	C	See notes 1 & 2
WA110820090010-005	7-30-2009	Soil	C	See notes 1 & 2

Sample ID	Sample Date	Media	Validation Level	Analytical Method
WA140820090001-001	8-05-2009	Soil	C	See note 2
WA140820090001-002	8-05-2009	Soil	C	See note 2
WA180820090011-001	8-11-2009	Soil	C	See notes 1 & 2
WA180820090011-002	8-11-2009	Soil	C	See notes 1 & 2
WA180820090011-003	8-11-2009	Soil	C	See notes 1 & 2
WA180820090011-004	8-10-2009	Soil	C	See notes 1 & 2
WA180820090011-005	8-10-2009	Soil	C	See notes 1 & 2
WA190820090001-001	8-12-2009	Soil	C	See note 2
WA190820090001-002	8-13-2009	Soil	C	See note 2
WA190820090001-003	8-13-2009	Soil	C	See note 2
WA260820090001-001	8-17-2009	Soil	C	See note 2
WA260820090001-002	8-17-2009	Soil	C	See note 2
WA130120100001-001	1-05-2010	Soil	C	See note 2
WA130120100001-002	1-05-2010	Soil	C	See note 2
WA130120100001-003	1-07-2010	Soil	C	See note 2
WA060120100001-001	12-29-2009	Soil	C	See notes 1 & 2
WA060120100001-002	12-29-2009	Soil	C	See notes 1 & 2
WA060120100001-003	12-30-2009	Soil	C	See notes 1 & 2
WA200120100001-001	1-14-2010	Soil	C	See note 2
WA200120100001-002	1-15-2010	Soil	C	See note 2
WA250120100004-001	1-19-2010	Soil	C	See note 2
WA060820090014-001	8-03-2009	Water	C	See notes 1 & 2
WA060820090014-002	8-03-2009	Water	C	See notes 1 & 2

1 – Gasoline and Diesel Range Organics by method 8015B modified
2 – Ethylene Glycol by method 8015B modified, Monobutyl Phosphate and Dibutyl Phosphate by method 9056 modified.

Data validation was conducted in accordance with the CHPRC validation statement of work and the Field Sampling and Analysis Plan for Waste Management Area C, RPP-PLAN-40564, Rev. 2 (SAP). Appendices 1 through 6 provide the following information as indicated below:

Appendix 1. Glossary of Data Reporting Qualifiers
Appendix 2. Summary of Data Qualification
Appendix 3. Annotated Laboratory Reports
Appendix 4. Laboratory Narrative and Chain-of-Custody Documentation
Appendix 5. Data Validation Supporting Documentation
Appendix 6. Additional Documentation Requested By Client

DATA QUALITY OBJECTIVES

- **Holding Times and Sample Preservation**

Holding times are calculated from Chain-of-Custody forms to determine the validity of the results. The holding time requirements for diesel range organics, ethylene glycol, monobutyl phosphate and dibutyl phosphate in soil are extraction within 14 days of sample collection and analysis within 40 days of sample extraction. The holding time requirements for diesel range organics in water are extraction within 14 days of sample collection and analysis within 40 days of sample extraction. The holding time requirements for ethylene glycol, monobutyl phosphate and dibutyl phosphate in water are extraction within 7 days of sample collection and analysis within 40 days of sample extraction. The holding time requirements for gasoline range organics in soil and water are analysis within 14 days of sample collection. Sample preservation requires chilling to approximately 4 degrees Celsius. In addition, diesel range organics and gasoline range organics in water require acid preservation with hydrochloric acid to pH <2.

The samples were extracted and analyzed within the prescribed holding times and properly preserved with the following exceptions.

For all analyses, many samples were analyzed beyond the holding times. Non-detected results for samples analyzed beyond the holding time but within 2X the holding time should be qualified as estimates and flagged UJ. Non-detected results for samples analyzed beyond 2X the holding time should be qualified as unusable and flagged UR. Detected results for samples analyzed beyond the holding time should be qualified as estimates and flagged J. See the table in Appendix 2 for a listing of all affected sample results.

- **Blanks**

The blank data results are reviewed to assess the extent of contamination introduced through sampling, sample preparation, and analysis.

Laboratory Blanks

All laboratory blank results were acceptable with the following exceptions.

For SDG 20090575, the diesel range organics laboratory blank result was > the method detection limit (MDL). The diesel range organics results for samples WA110820090010-001, WA110820090010-002 and WA110820090010-003 were detects > the SAP required detection limit and <5X the blank result and would be qualified as non-detects at the measured sample concentrations and flagged “U,” but were further flagged UJ due to LCS and holding time infractions. The diesel range organics results for samples WA110820090010-004 and WA110820090010-005 were non-detects and should not be qualified for the laboratory blank infraction.

For SDGs 20090329, 20090378 and 20090365, the ethylene glycol laboratory blank results were > the MDL. The ethylene glycol results for samples WA020620090001-001, WA020620090001-003, WA020620090002-001, WA020620090002-002 and WA110620090002-001 were detects < the SAP required detection limit and <5X the blank results and would be qualified as non-detects at the SAP required detection limit and flagged "U," but were qualified as non-detect estimates and flagged "UJ" due to holding time infractions. The ethylene glycol result for sample WA150620090004-002 was a detect < the SAP required detection limit and <5X the blank results and should be qualified as a non-detect at the SAP required detection limit and flagged "U." The ethylene glycol results for samples WA210520090002-001, WA020620090001-002, WA110620090001-001, WA110620090002-002, WA110620090003-001, WA110620090003-002 and WA150620090004-001 were non-detects and should not be qualified for the laboratory blank infractions.

Trip Blanks

No trip blanks were submitted for validation.

Field Blanks

No field blanks were submitted for validation.

Equipment Blanks

All equipment blank results were acceptable.

- **Accuracy**

Accuracy is evaluated by reviewing surrogate results, matrix spike sample results, and laboratory control sample results. According to the SAP, the matrix spike and laboratory control sample accuracy limits are 70% to 130%.

Surrogates

Surrogate recovery summary forms were not provided in the data package, and determination of surrogate recoveries from raw data was not feasible. The client was notified and instructed AQA to not perform surrogate recovery assessment. No sample data should be qualified as a result.

Matrix Spike (MS) Samples

All MS recoveries were acceptable with the following exceptions.

For SDGs 20090575 (water) and 20090608, the MS recoveries for gasoline range organics were below the lower acceptance limit. The associated results for samples WA060820090014-001 and WA060820090014-002 were non-detects and would be qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time

infractions. The associated results for samples WA180820090011-001, WA180820090011-002, WA180820090011-003, WA180820090011-004 and WA180820090011-005 were non-detects and should be qualified as estimates and flagged "UJ."

For SDG 20090161, the MS recovery for ethylene glycol was below the lower acceptance limit. The associated results for samples WA210420090001-001, WA270420090001-001 and WA270420090001-002 were non-detects and would be qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time infractions. The associated results for samples WA070520090005-001 and WA070520090005-002 were detects and should be qualified as estimates and flagged "J."

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Samples

All LCS/LCSD recoveries were acceptable with the following exceptions.

For SDG 20090575 (soil), the LCS recovery for diesel range organics was above the upper acceptance limit. The associated results for samples WA110820090010-001, WA110820090010-002 and WA110820090010-003 have been qualified as non-detects at the measured sample concentrations and flagged "UJ" due to a blank infraction and the LCS infraction. The associated results for samples WA110820090010-004 and WA110820090010-005 were non-detects and should not be qualified for the LCS infraction.

For SDG 20090161, the LCS and LCSD recoveries for ethylene glycol were below the lower acceptance limit. The associated results for samples WA210420090001-001, WA270420090001-001 and WA270420090001-002 were non-detects and would be qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time infractions. The associated results for samples WA070520090005-001 and WA070520090005-002 were detects and should be qualified as estimates and flagged "J."

- **Precision**

Precision is evaluated by reviewing LCS/LCSD results, laboratory duplicate sample results, field duplicate sample results, and field split sample results. These QC results provide information on the laboratory reproducibility and whether sampling activities are adequate to acquire consistent sample results. According to the SAP, the relative percent difference (RPD) limits are ±30%. When duplicate RPDs for soils exceed the limits and have associated results <5X the SAP required detection limits with differences <2X the required detection limits no precision infraction occurred. When duplicate RPDs for waters exceed the limits and have associated results <5X the required SAP detection limits with differences <1X the required detection limits no precision infraction occurred.

LCS/LCSD Samples

All LCS/LCSD relative percent difference values were acceptable.

Laboratory Duplicate Samples

All laboratory duplicate results were acceptable.

Field Duplicate Samples

No field duplicates were submitted for validation.

Field Split Samples

No field splits were submitted for validation.

- **Detection Limits**

Reported MDLs are compared against the contractually required detection limits (CRDLs) to ensure that laboratory detection limits meet the required criteria.

All reported sample MDLs were below the CRDLs. It should be noted that monobutyl phosphate and dibutyl phosphate CRDLs were not provided in the SAP or laboratory statement of work.

- **Completeness**

SDGs 20090161, 20090329, 20090378, 20090365, 20090454, 20090574, 20090575, 20090608, 20090877 and 20090878 were submitted for validation and verified for completeness. Completeness is based on the percentage of data determined to be valid (i.e., not rejected). The completion percentage for gasoline range organics was 70%. The completion percentage for diesel range organics was 100%. The completion percentage for ethylene glycol was 81%. The completion percentage for monobutyl phosphate was 2%. The completion percentage for dibutyl phosphate was 2%.

MAJOR DEFICIENCIES

Major deficiencies leading to qualification of sample results as unusable were due to severe holding time infractions. See the table in Appendix 2 for a listing of all affected sample results.

MINOR DEFICIENCIES

Multiple minor deficiencies leading to qualification of sample results as estimates occurred. See the table in Appendix 2 for a listing of all affected sample results.

REFERENCES

HNF-20433, Rev. 0, *Data Validation Procedure for Chemical Analyses*, June 2004.

RPP-PLAN-40564, Rev. 2, *Field Sampling and Analysis Plan for Waste Management Area C*, December 2009.

SOW 21065-39, Requisition # 184081, Rev. 0, *General Contractor-Technical Statement of Work*, February 2009.

Appendix 1

Glossary of Data Reporting Qualifiers

Qualifiers that may be applied by data validators in compliance with the CHPRC statement of work are as follows:

- **U** — The constituent was analyzed for and was not detected. The data should be considered usable for decision-making purposes.

- **UJ** — The constituent was analyzed for and was not detected. Due to a quality control deficiency identified during data validation the value reported may not accurately reflect the MDL. The data should be considered usable for decision-making purposes.

- **J** — Indicates the constituent was analyzed for and detected. The associated value is estimated due to a quality control deficiency identified during data validation. The data should be considered usable for decision-making purposes.

- **UR** — Indicates the constituent was analyzed for and not detected; however, due to an identified quality control deficiency the data should be considered unusable for decision-making purposes.

- **R** — Indicates the constituent was analyzed for and detected; however, due to an identified quality control deficiency the data should be considered unusable for decision-making purposes.

Appendix 2

Summary of Data Qualification

Semivolatile Organics Data Qualification Summary			
SDGs: 20090161, 20090329, 20090378, 20090365, 20090454, 20090574, 20090575, 20090608, 20090877, 20090878	Reviewer: AQA	Project: WMA C	Page 1 of 4
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
GRO	**UR**	WA060820090014-001 WA060820090014-002	Analyzed beyond 2X the holding time and low MS recovery
GRO	**UR**	WA110820090010-001 WA110820090010-002 WA110820090010-003 WA110820090010-004 WA110820090010-005	Analyzed beyond 2X the holding time
GRO	UJ	WA020620090002-001 WA020620090002-002 WA110620090003-001 WA220620090005-002 WA220620090005-003 WA060120100001-001 WA060120100001-002 WA060120100001-003	Analyzed beyond the holding time but within 2X the holding time
GRO	UJ	WA180820090011-001 WA180820090011-002 WA180820090011-003 WA180820090011-004 WA180820090011-005	Analyzed beyond the holding time but within 2X the holding time and low MS recovery
GRO	J	WA210420090001-001 WA220620090005-001	Analyzed beyond the holding time but within 2X the holding time
DRO	UJ	WA210420090001-001 WA110820090010-004 WA110820090010-005 WA060120100001-001 WA060120100001-002 WA060120100001-003	Extracted beyond the holding time but within 2X the holding time

Semivolatile Organics Data Qualification Summary			
SDGs: 20090161, 20090329, 20090378, 20090365, 20090454, 20090574, 20090575, 20090608, 20090877, 20090878	Reviewer: AQA	Project: WMA C	Page 2 of 4
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
DRO	35UJ	WA110820090010-001	Extracted beyond the holding time but within 2X the holding time, laboratory blank contamination, and high LCS recovery
DRO	32UJ	WA110820090010-002 WA110820090010-003	Extracted beyond the holding time but within 2X the holding time, laboratory blank contamination, and high LCS recovery
DRO	J	WA110620090003-001 WA110620090003-001	Extracted beyond the holding time but within 2X the holding time
DRO	J	WA020620090002-001 WA020620090002-002	Extracted beyond 2X the holding time
Ethylene glycol	**UR**	WA210420090001-001 WA270420090001-001 WA270420090001-002	Extracted beyond 2X the holding time, low MS recovery, and low LCS and LCSD recoveries
Ethylene glycol	**UR**	WA210520090002-001 WA020620090001-002 WA220620090005-001 WA220620090005-002 WA220620090005-003 WA060820090014-001 WA060820090014-002	Extracted beyond 2X the holding time
Ethylene glycol	J	WA070520090005-001 WA070520090005-002	Extracted beyond 2X the holding time, low MS recovery, and low LCS and LCSD recoveries
Ethylene glycol	5.0UJ	WA020620090001-001 WA020620090001-003 WA020620090002-001 WA020620090002-002	Extracted beyond 2X the holding time and laboratory blank contamination

Semivolatile Organics Data Qualification Summary			
SDGs: 20090161, 20090329, 20090378, 20090365, 20090454, 20090574, 20090575, 20090608, 20090877, 20090878	Reviewer: AQA	Project: WMA C	Page 3 of 4
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
Ethylene glycol	5.0UJ	WA110620090002-001	Extracted beyond the holding time but within 2X the holding time and laboratory blank contamination
Ethylene glycol	UJ	WA110620090001-001 WA110620090002-002 WA110620090003-001 WA110620090003-002 WA060120100001-001 WA060120100001-002 WA060120100001-003	Extracted beyond the holding time but within 2X the holding time
Ethylene glycol	5.0U	WA150620090004-002	Laboratory blank contamination
Monobutyl phosphate Dibutyl phosphate	**UR**	WA210420090001-001 WA270420090001-001 WA270420090001-002 WA070520090005-001 WA070520090005-002 WA210520090002-001 WA020620090001-001 WA020620090001-002 WA020620090001-003 WA020620090002-001 WA020620090002-002 WA110620090001-001 WA110620090002-001 WA110620090002-002 WA110620090003-001 WA110620090003-002 WA150620090004-001 WA150620090004-002 WA220620090005-001 WA220620090005-002 WA220620090005-003 WA120820090018-001	Extracted beyond 2X the holding time

Semivolatile Organics Data Qualification Summary			
SDGs: 20090161, 20090329, 20090378, 20090365, 20090454, 20090574, 20090575, 20090608, 20090877, 20090878	Reviewer: AQA	Project: WMA C	Page 4 of 4
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
Monobutyl phosphate Dibutyl phosphate	**UR**	WA120820090018-002 WA120820090018-003 WA060820090014-001 WA060820090014-002 WA110820090010-001 WA110820090010-002 WA110820090010-003 WA110820090010-004 WA110820090010-005 WA140820090001-001 WA140820090001-002 WA180820090011-001 WA180820090011-002 WA180820090011-003 WA180820090011-004 WA180820090011-005 WA190820090001-001 WA190820090001-002 WA190820090001-003 WA260820090001-001 WA260820090001-002 WA130120100001-001 WA130120100001-002 WA130120100001-003 WA060120100001-001 WA060120100001-002 WA060120100001-003 WA200120100001-001 WA200120100001-002	Extracted beyond 2X the holding time

Comments: None

Appendix 3

Annotated Laboratory Reports

RJ Lee*Group* , Inc.|Center for Laboratory Sciences
2710 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Diesel Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA210420090001
Address:	2440 Stevens Center	Samples Received:	04/21/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	04/29/09
Telephone:	509-373-1883	Analysis Date:	05/06/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000227	WA210420090001-001	4/14/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	6.721	101.6	<9.94	<16.2	<16.2	20.25	16.2	H UJ

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
H = Holding time exceedance
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Technical Manager: Mr. L. Joseph Sears

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in acordance with ISO 17025 guidelines, and holds limited scopes of accreditation under EPA ID WA01195, NY NELAP Lab Code 11829, CA ELAP Certificate 2574, WA DOE Lab ID C1928, MD DHMH Certificate 312, and LELAP Certificate 04121, OR ORELAP ID WA200005. This report may not be used ot claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or th the sample(s) as received by the laboratory. Quality control data is available upon request.

RJ Lee*Group*, Inc. | **Center for Laboratory Sciences**
2710 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Gasoline Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA210420090001
Address:	2440 Stevens Center	Samples Received:	04/21/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	04/29/09
Telephone:	509-373-1883	Analysis Date:	04/29/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000227	WA210420090001-001	4/14/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	6.005	106.0	<0.1	0.335	0.227	38.56	0.09	c, H,I

J

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: I= ICV not run for this batch

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
H = Holding time exceedance
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Technical Manager: Mr. L. Joseph Sears

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RJ Lee*Group*, Inc.|Center for Laboratory Sciences
2710 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Ethylene Glycol by 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA210420090001
Address:	2440 Stevens Center	Samples Received:	04/21/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/21/09
Telephone:	509-372-1945	Analysis Date:	06/22/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS % Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000227	WA210420090001-001	4/14/2009	Ethylene Glycol	107-21-1	5.972	1.8	<0.42	<0.46	N/A	N/A	0.46	a, Q, H,S,B

UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: There was a high recovery of the DL at 820% and a low recovery of the LCS and LCSD at 1.80% and 1.1% respectively. Therefore the report has been qualified with an "a" and a "Q".

LS
9-13-2010

Qualifiers

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Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
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a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Technical Manager: Mr. L. Joseph Sears

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA210420090001
Address:	2440 Stevens Center	Samples Received:	04/21/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS % Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000227	WA210420090001-001	4/14/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.837	<0.837	N/A	0.837	H

UR

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* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
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Authorized Signature: L Joseph Sears
Technical Manager: Mr. L. Joseph Sears

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA210420090001
Address:	2440 Stevens Center	Samples Received:	04/21/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS % Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000227	WA210420090001-001	4/14/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.614	<0.614	N/A	0.614	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA270420090001
Address:	2440 Stevens Center	Samples Received:	04/27/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/14/09
Telephone:	509-372-1945	Analysis Date:	06/22/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000228	WA270420090001-001	4/21/2009	Ethylene Glycol	107-21-1	5.573	1.8	<0.482	<0.482	<0.482	N/A	0.482	Q, a, s, S,H,B	UR
S09V000229	WA270420090001-002	4/22/2009	Ethylene Glycol	107-21-1	5.976	1.8	<0.454	<0.454	N/A	N/A	0.454	Q, a, s, S,H,B	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: There was a high recovery of the DL at 820% and a low recovery of the LCS and LCSD at 1.80% and 1.1% respectively. There was also a low matrix spike recovery at 41.30%. There was no surrogate added to the ICV. Therefore the report has been qualified with an "a", "Q", "s" and "S".

Qualifiers

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a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA270420090001
Address:	2440 Stevens Center	Samples Received:	04/27/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/24/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000228	WA270420090001-001	4/21/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.823	<0.823	N/A	0.823	H	UR
S09V000229	WA270420090001-002	4/22/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.908	<0.908	N/A	0.908	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA270420090001
Address:	2440 Stevens Center	Samples Received:	04/27/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/24/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000228	WA270420090001-001	4/21/2009	Monobutyl Phosphate	1623-15-0	101.0	<0.615	<0.604	<0.604	N/A	0.604	H	UR
S09V000229	WA270420090001-002	4/22/2009	Monobutyl Phosphate	1623-15-0	101.0	<0.615	<0.665	<0.665	N/A	0.665	H	UR

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LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA070520090005
Address:	2440 Stevens Center	Samples Received:	05/07/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/21/09
Telephone:	509-372-1945	Analysis Date:	06/22/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000230	WA070520090005-001	4/30/2009	Ethylene Glycol	107-21-1	5.896	1.8	<0.42	1.030	N/A	N/A	0.44	a, Q, H,S,B	J
S09V000231	WA070520090005-002	4/30/2009	Ethylene Glycol	107-21-1	5.239	1.8	<0.42	0.610	N/A	N/A	0.49	a, Q, H,S,B	J

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* All values reported without blank correction unless otherwise noted

Comments: There was a high recovery of the DL at 820% and a low recovery of the LCS and LCSD at 1.80% and 1.1% respectively. Therefore the report has been qualified with an "a" and a "Q".

LS
9-13-2010

Qualifiers

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA070520090005
Address:	2440 Stevens Center	Samples Received:	05/07/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/24/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000230	WA070520090005-001	4/30/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.799	<0.799	N/A	0.799	H	UR
S09V000231	WA070520090005-002	4/30/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.835	<0.835	N/A	0.835	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
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LS
9-13-2010

Comments: Analysis performed by Southwest Research Institute (SwRI)

Qualifiers

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA070520090005
Address:	2440 Stevens Center	Samples Received:	05/07/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/24/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000230	WA070520090005-001	4/30/2009	Monobutyl Phosphate	1623-15-0	101.0	<0.615	<0.586	<0.586	N/A	0.586	H	UR
S09V000231	WA070520090005-002	4/30/2009	Monobutyl Phosphate	1623-15-0	101.0	<0.615	<0.613	<0.613	N/A	0.613	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

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9-13-2010

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I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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RJ Lee*Group*, Inc.|Center for Laboratory Sciences
2710 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA210520090002
Address:	2440 Stevens Center	Samples Received:	05/21/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/21/09
Telephone:	509-372-1945	Analysis Date:	09/02/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090329

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000457	WA210520090002-001	5/13/2009	Ethylene Glycol	107-21-1	5.108	100.2	<0.08	<0.07	N/A	N/A	0.07	S, H,I

UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Surrogate solution was not added to the ICV or CBs corresponding to this batch. Therefore qualified with an S.
Internal Standard solution was not added to the DL corresponding to this batch. Therefore qualified with an I.

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA210520090002
Address:	2440 Stevens Center	Samples Received:	05/21/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090329

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000457	WA210520090002-001	5/13/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.879	<0.879	N/A	0.879	H

UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Southwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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RJ Lee*Group*, Inc.|Center for Laboratory Sciences
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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA210520090002
Address:	2440 Stevens Center	Samples Received:	05/21/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090329

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000457	WA210520090002-001	5/13/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.644	<0.644	N/A	0.644	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: Analysis performed by Southwest Research Institute (SwRI)

LS
9-13-2010

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA020620090001
Address:	2440 Stevens Center	Samples Received:	06/02/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/19/09
Telephone:	509-372-1945	Analysis Date:	06/20/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090329

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000458	WA020620090001-001	5/18/2009	Ethylene Glycol	107-21-1	5.694	95.4	1.56	0.48	N/A	N/A	0.46	B, Q, H	5.0UJ
S09V000459	WA020620090001-002	5/18/2009	Ethylene Glycol	107-21-1	5.279	95.4	1.56	<0.52	N/A	N/A	0.52	B, Q, H	UR
S09V000460	WA020620090001-003	5/19/2009	Ethylene Glycol	107-21-1	5.083	95.4	1.56	0.81	N/A	N/A	0.5	B, Q, H	5.0UJ

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: There was a high recovery of the DL at 776% therefore the Q Qualifier.

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
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Joe Sears, Technical Manager

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA020620090001
Address:	2440 Stevens Center	Samples Received:	06/02/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090329

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000458	WA020620090001-001	5/18/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.915	<0.915	N/A	0.915	H	UR
S09V000459	WA020620090001-002	5/18/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.903	<0.903	N/A	0.903	H	UR
S09V000460	WA020620090001-003	5/19/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.885	<0.885	N/A	0.885	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
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Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Tel: (509) 545-4989 | Fax: (509) 544-6010

Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA020620090001
Address:	2440 Stevens Center	Samples Received:	06/02/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090329

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000458	WA020620090001-001	5/18/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.671	<0.671	N/A	0.671	H	UR
S09V000459	WA020620090001-002	5/18/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.662	<0.662	N/A	0.662	H	UR
S09V000460	WA020620090001-003	5/19/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.649	<0.649	N/A	0.649	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
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Diesel Range Organics by EPA 8015 Modified

Client:	Washington River Protection Soluti	RJ Lee Group Project:	WA020620090002
Address:	2440 Stevens Center	Samples Received:	06/02/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/26/09
Telephone:	509-372-1945	Analysis Date:	06/27/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000635	WA020620090002-001	5/21/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.355	101.6	<9.94	75.7	70.201	7.59	10.02	Q, H	J
S09V000651	WA020620090002-002	5/21/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.184	101.6	<9.94	73.2	N/A	N/A	10.31	Q, H	J

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: There was a high recovery of the DL at 177.2%, therefore a Q qualifier.

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
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s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
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Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Gasoline Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutio	RJ Lee Group Project:	WA020620090002
Address:	2440 Stevens Center	Samples Received:	06/02/09
	Richland, WA 99352 MSIN T6-02	Report Date:	01/21/10
Attention:	Steve McKinney	Prep Date:	06/04/09
Telephone:	509-372-1945	Analysis Date:	06/18/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000635	WA020620090002-001	5/21/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.104	96.0	<0.1	<0.11	N/A	N/A	0.11	H	UJ
S09V000651	WA020620090002-002	5/21/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.307	96.0	<0.1	<0.1	<0.1	0.72	0.1	H	UJ

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA020620090002
Address:	2440 Stevens Center	Samples Received:	06/02/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/19/09
Telephone:	509-372-1945	Analysis Date:	06/20/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000635	WA020620090002-001	5/21/2009	Ethylene Glycol	107-21-1	5.042	95.4	1.56	1.81	N/A	N/A	0.530	B, Q, H	5.0UJ
S09V000651	WA020620090002-002	5/21/2009	Ethylene Glycol	107-21-1	5.280	95.4	1.56	0.95	19.3	181	0.510	B, c, Q, H	5.0UJ

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: There was a high recovery of the DL at 776% therefore the Q Qualifier.

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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RJ Lee*Group*, Inc. | **Center for Laboratory Sciences**
2710 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA020620090002
Address:	2440 Stevens Center	Samples Received:	06/02/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000635	WA020620090002-001	5/21/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.901	N/A	NA	0.901	H	UR
S09V000651	WA020620090002-002	5/21/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.948	N/A	NA	0.948	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA020620090002
Address:	2440 Stevens Center	Samples Received:	06/02/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000635	WA020620090002-001	5/21/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.66	N/A	NA	0.660	H	UR
S09V000651	WA020620090002-002	5/21/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.621	N/A	NA	0.621	H	UR

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* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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D = Diluted sample
E = Report concentration was above the instrumental calibration range
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c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090001
Address:	2440 Stevens Center	Samples Received:	06/09/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/19/09
Telephone:	509-372-1945	Analysis Date:	06/20/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000667	WA110620090001-001	6/1/2009	Ethylene Glycol	107-21-1	5.335	98.6	1.58	<0.5	N/A	N/A	0.5	Q, B, H,S	UJ

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: There was a high DL failure at 816% therefore the Q Qualifier. There was a low surrogate failure on CB and ICV therefore the S Qualifier.

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
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I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
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a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Technical Manager: Mr. L. Joseph Sears

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090001
Address:	2440 Stevens Center	Samples Received:	06/09/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000667	WA110620090001-001	6/1/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.831	<0.831	N/A	0.831	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Technical Manager: Mr. L. Joseph Sears

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090001
Address:	2440 Stevens Center	Samples Received:	06/09/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000667	WA110620090001-001	6/1/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.608	<0.608	N/A	0.608	H

UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: Analysis performed by Soutwest Research Institute (SwRI)

LS
9-13-2010

Qualifiers

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E = Report concentration was above the instrumental calibration range
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I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090002
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	01/18/10
Attention:	Steve McKinney	Prep Date:	06/19/09
Telephone:	509-372-1945	Analysis Date:	06/20/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000570	WA110620090002-001	6/4/2009	Ethylene Glycol	107-21-1	5.392	98.6	1.58	1.6	NA	N/A	0.51	Q, B, H,S	5.0UJ
S09V000586	WA110620090002-002	6/4/2009	Ethylene Glycol	107-21-1	6.072	98.9	1.58	<0.43	NA	N/A	0.43	Q, B, H,S	UJ

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: There was a high DL failure at 816% therefore the Q Qualifier. There was a low surrogate failure on CB and ICV therefore the S Qualifier.

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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Authorized Signature: L Joseph Sears
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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090002
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	01/18/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000570	WA110620090002-001	6/4/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.875	<0.875	N/A	0.875	H	UR
S09V000586	WA110620090002-002	6/4/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.801	<0.801	N/A	0.801	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Southwest Research Institute (SwRI)

Qualifiers

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090002
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	01/18/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000570	WA110620090002-001	6/4/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.641	<0.641	N/A	0.641	H	UR
S09V000586	WA110620090002-002	6/4/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.587	<0.587	N/A	0.587	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Southwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
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I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
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Diesel Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutio	RJ Lee Group Project:	WA110620090003
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/26/09
Telephone:	509-372-1945	Analysis Date:	06/27/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000510	WA110620090003-001	6/3/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.063	101.6	<9.94	89.6	N/A	N/A	10.63	Q, H,B	J
S09V000554	WA110620090003-002	6/4/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.608	101.6	<9.94	72.6	N/A	N/A	9.4	Q, H,B	J

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: There was a high recovery of the DL at 177.2%, therefore a Q qualifier.

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
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Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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RJ Lee*Group*, Inc. | **Center for Laboratory Sciences**
2711 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6011

Gasoline Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutio	RJ Lee Group Project:	WA110620090003
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/04/09
Telephone:	509-372-1945	Analysis Date:	06/18/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000510	WA110620090003-001	6/3/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.190	96.0	<0.1	<0.1	N/A	N/A	0.1	H UJ
S09V000554	WA110620090003-002	6/4/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.248	96.0	<0.1	<0.1	<0.1	N/A	0.1	H

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090003
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/19/09
Telephone:	509-372-1945	Analysis Date:	06/20/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000510	WA110620090003-001	6/3/2009	Ethylene Glycol	107-21-1	5.411	98.6	1.58	<0.5	N/A	N/A	0.5	Q, B, H,S	UJ
S09V000554	WA110620090003-002	6/4/2009	Ethylene Glycol	107-21-1	5.296	98.6	1.58	<0.5	<0.5	39.55	0.5	c, Q, B, H,S	UJ

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* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: There was a high DL failure at 816% therefore the Q Qualifier.There was a low surrogate failure on CB & ICV therefore the S qualifer.

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
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I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

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Joe Sears, Technical Manager

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090003
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000510	WA110620090003-001	6/3/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.844	<0.844	N/A	0.844	H	UR
S09V000554	WA110620090003-002	6/4/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.867	<0.867	N/A	0.867	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
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I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090003
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000510	WA110620090003-001	6/3/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.619	<0.619	N/A	0.619	H	UR
S09V000554	WA110620090003-002	6/4/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.635	<0.635	N/A	0.635	H	UR

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* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA150620090004
Address:	2440 Stevens Center	Samples Received:	06/15/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/19/09
Telephone:	509-372-1945	Analysis Date:	06/20/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000602	WA150620090004-001	6/9/2009	Ethylene Glycol	107-21-1	98.7	<0.615	<0.42	<0.479	<0.479	N/A	0.479	Q,S, B
S09V000618	WA150620090004-002	6/9/2009	Ethylene Glycol	107-21-1	98.7	<0.615	<0.42	1.4	N/A	N/A	0.493	Q,S, B

5.0U

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* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: There was a high DL failure at 816% therefore the Q Qualifier. There was a low surrogate failure on CB and ICV therefore the S Qualifier.

Qualifiers

B = Compound found in associated laboratory blank as well as sample
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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA150620090004
Address:	2440 Stevens Center	Samples Received:	06/15/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000602	WA150620090004-001	6/9/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.731	<0.731	N/A	0.731	H	UR
S09V000618	WA150620090004-002	6/9/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.506	<0.506	N/A	0.506	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
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LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA150620090004
Address:	2440 Stevens Center	Samples Received:	06/15/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000602	WA150620090004-001	6/9/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.536	<0.536	N/A	0.536	H	UR
S09V000618	WA150620090004-002	6/9/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.731	<0.731	N/A	0.731	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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Diesel Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutic	RJ Lee Group Project:	WA220620090005
Address:	2440 Stevens Center	Samples Received:	06/22/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/26/09
Telephone:	509-372-1945	Analysis Date:	06/27/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090454

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000761	WA220620090005-001	6/15/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.992	101.6	<9.94	64.6	101.6	44.52	8.78	Q, c,B
S09V000762	WA220620090005-002	6/15/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.101	101.6	<9.94	91.1	N/A	N/A	10.56	Q,B
S09V000763	WA220620090005-003	6/15/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.293	101.6	<9.94	134.6	N/A	N/A	9.92	Q,B

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: There was a high recovery of the DL at 177.2%, therefore a Q qualifier.

Qualifiers

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D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
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Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Gasoline Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutio	RJ Lee Group Project:	WA220620090005
Address:	2440 Stevens Center	Samples Received:	06/22/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	06/30/09
Telephone:	509-372-1945	Analysis Date:	06/30/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090454

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000761	WA220620090005-001	6/15/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.189	0.2	<0.1	0.1	0.152	39.98	0.1	a,S,H	J
S09V000762	WA220620090005-002	6/15/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.324	0.2	<0.1	<0.1	N/A	N/A	0.1	a,S,H	UJ
S09V000763	WA220620090005-003	6/15/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.037	0.2	<0.1	<0.1	N/A	N/A	0.1	a,S,H	UJ

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Low recovery of the ending CCV at 72%, therefore a Qualifier.

Qualifiers

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H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA220620090005
Address:	2440 Stevens Center	Samples Received:	06/22/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	01/20/10
Telephone:	509-372-1945	Analysis Date:	01/20/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090454

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000761	WA220620090005-001	6/15/2009	Ethylene Glycol	107-21-1	5.140	80.2	<0.08	<0.08	N/A	N/A	0.08	H	UR
S09V000762	WA220620090005-002	6/15/2009	Ethylene Glycol	107-21-1	5.141	80.2	<0.08	<0.08	N/A	N/A	0.08	H	UR
S09V000763	WA220620090005-003	6/15/2009	Ethylene Glycol	107-21-1	5.155	80.2	<0.08	<0.08	N/A	N/A	0.08	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments:

Qualifiers

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E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
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Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
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a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA220620090005
Address:	2440 Stevens Center	Samples Received:	06/22/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/24/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090454

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000761	WA220620090005-001	6/15/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.848	<0.848	N/A	0.848	H	UR
S09V000762	WA220620090005-002	6/15/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.864	<0.864	N/A	0.864	H	UR
S09V000763	WA220620090005-003	6/15/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.834	<0.834	N/A	0.834	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA220620090005
Address:	2440 Stevens Center	Samples Received:	06/22/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/24/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090454

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000761	WA220620090005-001	6/15/2009	Monobutyl Phosphate	1623-15-0	101.0	<0.615	<0.622	<0.622	N/A	0.622	H	UR
S09V000762	WA220620090005-002	6/15/2009	Monobutyl Phosphate	1623-15-0	101.0	<0.615	<0.633	<0.633	N/A	0.633	H	UR
S09V000763	WA220620090005-003	6/15/2009	Monobutyl Phosphate	1623-15-0	101.0	<0.615	<0.611	<0.611	N/A	0.611	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
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Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Diesel Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA060820090014
Address:	2440 Stevens Center	Samples Received:	08/06/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	8/6/2009
Telephone:	509-372-1945	Analysis Date:	09/02/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/L)	Results (mg/L)	Duplicate (mg/L)	RPD	Quant. Limit (mg/L)	Qualifier
S09V000937	WA060820090014-001	8/3/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	102.0	<0.2	<0.2	N/A	N/A	0.20	Q,H,B
S09V000938	WA060820090014-002	8/3/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	102.0	<0.2	<0.2	<0.2	N/A	0.20	Q,H,B

Comments:

Qualifiers

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Authorized Signature: _____
Joe Sears, Technical Manager

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Gasoline Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA060820090014
Address:	2440 Stevens Center	Samples Received:	08/06/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	08/06/09
Telephone:	509-372-1945	Analysis Date:	09/03/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/L)	Results (mg/L)	Duplicate (mg/L)	RPD	Quant. Limit (mg/L)	Qualifier	
S09V000937	WA060820090014-001	8/3/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	100.0	<0.1	<5	N/A	N/A	5.00	H	UR
S09V000938	WA060820090014-002	8/3/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	100.0	<0.1	<5	<5	N/A	5.00	H	UR

Comments:

LS
9-13-2010

Qualifiers

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA060820090014
Address:	2440 Stevens Center	Samples Received:	08/06/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	08/27/09
Telephone:	509-372-1945	Analysis Date:	09/01/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/L)	Results (mg/L)	Duplicate (mg/L)	RPD	Quant. Limit (mg/L)	Qualifier	
S09V000937	WA060820090014-001	8/3/2009	Ethylene Glycol	107-21-1	100.2	<1	<1	N/A	N/A	1.00	H, S,I	UR
S09V000938	WA060820090014-002	8/3/2009	Ethylene Glycol	107-21-1	100.2	<1	<1	N/A	N/A	1.00	H, S,I	UR

Comments: Surrogate solution was not added to the ICV in this batch therefore qualified with an S. No internal standard in the CB or DL therefore qualified with an I.

LS
9-13-2010

Qualifiers

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Dibutyl Phosphate by EPA 8015 Modified

Client:	Washington River Protection Solution	RJ Lee Group Project:	WA060820090014
Address:	2440 Stevens Center	Samples Received:	08/06/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/24/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/L)	Results (mg/L)	Duplicate (mg/L)	RPD	Quant. Limit (mg/L)	Qualifier	
S09V000937	WA060820090014-001	8/3/2009	Dibutyl Phosphate	107-66-4	108.0	<0.115	<0.115	<0.115	N/A	0.12	H	UR
S09V000938	WA060820090014-002	8/3/2009	Dibutyl Phosphate	107-66-4	108.0	<0.115	<0.115	<0.115	N/A	0.12	H	UR

Comments: Analysis performed by Soutwest Research Institute (SwRI)

LS
9-13-2010

Qualifiers

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Monobutyl Phosphate by EPA 8015 Modified

Client:	Washington River Protection Solution	RJ Lee Group Project:	WA060820090014
Address:	2440 Stevens Center	Samples Received:	08/06/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/24/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/L)	Results (mg/L)	Duplicate (mg/L)	RPD	Quant. Limit (mg/L)	Qualifier	
S09V000937	WA060820090014-001	8/3/2009	Monobutyl Phosphate	1623-15-0	103.0	<0.0846	<0.0846	<0.0846	N/A	0.0846	H	UR
S09V000938	WA060820090014-002	8/3/2009	Monobutyl Phosphate	1623-15-0	103.0	<0.0846	<0.0846	<0.0846	N/A	0.0846	H	UR

Comments: Analysis performed by Soutwest Research Institute (SwRI)

LS
9-13-2010

Qualifiers

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H = Holding time exceedance
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Diesel Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110820090010
Address:	2440 Stevens Center	Samples Received:	08/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	08/19/09
Telephone:	509-372-1945	Analysis Date:	09/02/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000865	WA110820090010-001	7/30/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.234	138.2	35.24	35.1	32.2	8.61	19.43	B, Q, H	35UJ
S09V000878	WA110820090010-002	7/30/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.237	138.2	35.24	32.4	N/A	N/A	19.4	B, Q, H	32UJ
S09V000906	WA110820090010-003	7/30/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.263	138.2	35.24	32.4	N/A	N/A	19.83	B, Q, H	32UJ
S09V000907	WA110820090010-004	7/30/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.282	138.2	35.24	<19.3	N/A	N/A	19.3	B, Q, H	UJ
S09V000908	WA110820090010-005	7/30/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.183	138.2	35.24	<19.8	N/A	N/A	19.8	B, Q, H	UJ

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

LS
9-13-2010

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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RJ Lee*Group*, Inc. | Center for Laboratory Sciences
2711 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6011

Gasoline Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110820090010
Address:	2440 Stevens Center	Samples Received:	08/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	01/21/10
Attention:	Steve McKinney	Prep Date:	08/12/09
Telephone:	509-372-1945	Analysis Date:	09/02/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000865	WA110820090010-001	7/30/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.234	96.0	<0.1	<0.1	<0.1	22.22	0.1	a, S, H	UR
S09V000878	WA110820090010-002	7/30/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.237	96.0	<0.1	<0.1	N/A	N/A	0.1	a,S, H	UR
S09V000906	WA110820090010-003	7/30/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.263	96.0	<0.1	<0.1	N/A	N/A	0.1	a,S, H	UR
S09V000907	WA110820090010-004	7/30/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.282	96.0	<0.1	<0.1	N/A	N/A	0.1	a,S, H	UR
S09V000908	WA110820090010-005	7/30/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.183	96.0	<0.1	<0.1	N/A	N/A	0.1	a,S, H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments:

Qualifiers

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E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110820090010
Address:	2440 Stevens Center	Samples Received:	08/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	08/12/09
Telephone:	509-372-1945	Analysis Date:	09/02/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000865	WA110820090010-001	7/30/2009	Ethylene Glycol	107-21-1	5.243	101.1	<0.08	<0.08	<0.08	N/A	0.08	H,S,I
S09V000878	WA110820090010-002	7/30/2009	Ethylene Glycol	107-21-1	5.225	101.1	<0.08	<0.08	N/A	N/A	0.08	H,S,I
S09V000906	WA110820090010-003	7/30/2009	Ethylene Glycol	107-21-1	5.353	101.1	<0.08	<0.08	N/A	N/A	0.08	H,S,I
S09V000907	WA110820090010-004	7/30/2009	Ethylene Glycol	107-21-1	5.137	101.1	<0.08	<0.08	N/A	N/A	0.08	H,S,I
S09V000908	WA110820090010-005	7/30/2009	Ethylene Glycol	107-21-1	5.218	101.1	<0.08	<0.08	N/A	N/A	0.08	H,S,I

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: Surrogate solution was not added to the ICV or CB in this batch therefore qualified with an "S". No internal standard in the DL therefor qualified with an "I".

Qualifiers

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c = RPD failure (results beyond +/-30% of expected value)

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Joe Sears, Technical Manager

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110820090010
Address:	2440 Stevens Center	Samples Received:	08/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000865	WA110820090010-001	7/30/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.851	<0.851	N/A	0.851	H	UR
S09V000878	WA110820090010-002	7/30/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.885	<0.885	N/A	0.885	H	UR
S09V000906	WA110820090010-003	7/30/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.85	<0.85	N/A	0.85	H	UR
S09V000907	WA110820090010-004	7/30/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.836	<0.836	N/A	0.836	H	UR
S09V000908	WA110820090010-005	7/30/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.829	<0.829	N/A	0.829	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments:

Qualifiers

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Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110820090010
Address:	2440 Stevens Center	Samples Received:	08/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000865	WA110820090010-001	7/30/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.623	<0.623	N/A	0.623	H	UR
S09V000878	WA110820090010-002	7/30/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.649	<0.649	N/A	0.649	H	UR
S09V000906	WA110820090010-003	7/30/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.623	<0.623	N/A	0.623	H	UR
S09V000907	WA110820090010-004	7/30/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.612	<0.612	N/A	0.612	H	UR
S09V000908	WA110820090010-005	7/30/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.607	<0.607	N/A	0.607	H	UR

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LS
9-13-2010

Comments:

Qualifiers

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA120820090018
Address:	2440 Stevens Center	Samples Received:	08/12/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	08/13/09
Telephone:	509-372-1945	Analysis Date:	09/03/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090574

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V001000	WA120820090018-001	8/3/2009	Ethylene Glycol	107-21-1	5.475	97.3	<0.39	<0.39	N/A	N/A	0.39	I, S,H,Q
S09V000996	WA120820090018-002	8/4/2009	Ethylene Glycol	107-21-1	5.424	97.3	<0.39	<0.38	N/A	N/A	0.38	I, S,H,Q
S09V000997	WA120820090018-003	8/4/2009	Ethylene Glycol	107-21-1	5.303	97.3	<0.39	<0.38	<0.38	0.00	0.38	I, S,H,Q

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: There was no surrogate added to the ICV, therefore an S qualifier. There was no internal standard in the DL, therefore no quantification. All the samples are flagged with an "I".

Qualifiers

B = Compound found in associated laboratory blank as well as sample
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D = Diluted sample
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a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA120820090018
Address:	2440 Stevens Center	Samples Received:	08/12/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090574

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001000	WA120820090018-001	8/3/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.756	<0.756	N/A	0.756	H	UR
S09V000996	WA120820090018-002	8/4/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.86	<0.86	N/A	0.86	H	UR
S09V000997	WA120820090018-003	8/4/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.826	<0.826	N/A	0.826	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: Analysis performed by Soutwest Research Institute (SwRI)

LS
9-13-2010

Qualifiers

B = Compound found in associated laboratory blank as well as sample
H = Holding time exceedance
D = Diluted sample
E = Report concentration was above the instrumental calibration range
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Joe Sears, Technical Manager

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA120820090018
Address:	2440 Stevens Center	Samples Received:	08/12/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090574

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001000	WA120820090018-001	8/3/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.554	<0.554	N/A	0.554	H	UR
S09V000996	WA120820090018-002	8/4/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.631	<0.631	N/A	0.631	H	UR
S09V000997	WA120820090018-003	8/4/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.605	<0.605	N/A	0.605	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
H = Holding time exceedance
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
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a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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RJ Lee*Group*, Inc.|Center for Laboratory Sciences
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Tel: (509) 545-4989 | Fax: (509) 544-6011

Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA140820090001
Address:	2440 Stevens Center	Samples Received:	08/13/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	08/13/09
Telephone:	509-372-1945	Analysis Date:	09/03/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V000998	WA140820090001-001	8/5/2009	Ethylene Glycol	107-21-2	5.192	95.9	<0.39	<0.4	N/A	N/A	0.4	I, S,H,Q
S09V000999	WA140820090001-002	8/5/2009	Ethylene Glycol	107-21-2	5.236	95.9	<0.39	<0.39	N/A	N/A	0.39	I, S,H,Q

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: There was no surrogate added to the ICV, therefore an S qualifier. There was no internal standard in the DL, therefore no quantification. All the samples are flagged with an "I".

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits.
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA140820090001
Address:	2440 Stevens Center	Samples Received:	08/13/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000998	WA140820090001-001	8/5/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.878	<0.878	N/A	0.878	H	UR
S09V000999	WA140820090001-002	8/5/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.878	<0.878	N/A	0.878	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits.
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

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Joe Sears, Technical Manager

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA140820090001
Address:	2440 Stevens Center	Samples Received:	08/13/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V000998	WA140820090001-001	8/5/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.643	<0.643	N/A	0.643	H	UR
S09V000999	WA140820090001-002	8/5/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.644	<0.644	N/A	0.644	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits.
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

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Joe Sears, Technical Manager

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Diesel Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA180820090011
Address:	2440 Stevens Center	Samples Received:	08/18/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	08/19/09
Telephone:	509-372-1945	Analysis Date:	09/01/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V001189	WA180820090011-001	8/11/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.416	110.3	<18.73	<19.08	N/A	N/A	19.08	Q,B
S09V001190	WA180820090011-002	8/11/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.358	110.3	<18.73	<19.28	N/A	N/A	19.28	Q,B
S09V001191	WA180820090011-003	8/11/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	6.050	110.3	<18.73	<16.98	N/A	N/A	16.98	Q,B
S09V001072	WA180820090011-004	8/10/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	7.125	110.3	<18.73	<14.15	N/A	N/A	14.15	Q,B
S09V001073	WA180820090011-005	8/10/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	6.638	110.3	<18.73	<15.19	N/A	N/A	15.19	Q,B

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: A DL was run in this batch, but a failed recovery 163.2, therefore a Q flag is shown.

Qualifiers

B = Compound found in associated laboratory blank as well as sample
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E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

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Joe Sears, Technical Manager

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Gasoline Range Organics by EPA 8015 Modified

Client: Washington River Protection Solutions
Address: 2440 Stevens Center
Richland, WA 99352 MSIN T6-02
Attention: Steve McKinney
Telephone: 509-372-1945
Fax: 509-372-1878

RJ Lee Group Project WA180820090011
Samples Received: 08/18/09
Report Date: 03/11/10
Prep Date: 08/19/09
Analysis Date: 09/07/09
Client Project: Vadose
Lab Group No.: 20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001189	WA180820090011-001	8/11/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.271	96.0	<0.1	<0.1	N/A	N/A	0.1	a,S,H	UJ
S09V001190	WA180820090011-002	8/11/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.589	96.0	<0.1	<0.09	N/A	N/A	0.09	a,S,H	UJ
S09V001191	WA180820090011-003	8/11/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.146	96.0	<0.1	<0.1	N/A	N/A	0.1	a,S,H	UJ
S09V001072	WA180820090011-004	8/10/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.205	96.0	<0.1	<0.1	<0.1	N/A	0.1	a,S,H,s	UJ
S09V001073	WA180820090011-005	8/10/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.158	96.0	<0.1	<0.1	N/A	N/A	0.1	a,S,H	UJ

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Low CCV recoveries at 72% and 61%, therefore Q Qualifier.

Qualifiers

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H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA180820090011
Address:	2440 Stevens Center	Samples Received:	08/18/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	08/19/09
Telephone:	509-372-1945	Analysis Date:	09/03/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V001189	WA180820090011-001	8/11/2009	Ethylene Glycol	107-21-1	5.371	95.1	<0.39	<0.38	N/A	N/A	0.38	I, S,H
S09V001190	WA180820090011-002	8/11/2009	Ethylene Glycol	107-21-1	6.713	95.1	<0.39	<0.31	N/A	N/A	0.31	I, S,H
S09V001191	WA180820090011-003	8/11/2009	Ethylene Glycol	107-21-1	5.339	95.1	<0.39	<0.38	N/A	N/A	0.38	I, S,H
S09V001072	WA180820090011-004	8/10/2009	Ethylene Glycol	107-21-1	5.233	95.1	<0.39	<0.39	N/A	N/A	0.39	I, S,H
S09V001073	WA180820090011-005	8/10/2009	Ethylene Glycol	107-21-1	5.211	95.1	<0.39	<0.39	N/A	N/A	0.39	I, S,H

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: There was no surrogate added to the ICV, therefore an S qualifier. There was no internal standard in the DL, therefore no quantification. All the samples are flagged with an "I".

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
H = Holding time exceedance
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
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Authorized Signature: L Joseph Sears
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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA180820090011
Address:	2440 Stevens Center	Samples Received:	08/18/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001189	WA180820090011-001	8/11/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.851	<0.851	N/A	0.851	H	UR
S09V001190	WA180820090011-002	8/11/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.837	<0.837	N/A	0.837	H	UR
S09V001191	WA180820090011-003	8/11/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.851	<0.851	N/A	0.851	H	UR
S09V001072	WA180820090011-004	8/10/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.806	<0.806	N/A	0.806	H	UR
S09V001073	WA180820090011-005	8/10/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.805	<0.805	N/A	0.805	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
H = Holding time exceedance
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA180820090011
Address:	2440 Stevens Center	Samples Received:	08/18/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001189	WA180820090011-001	8/11/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.624	<0.624	N/A	0.624	H	UR
S09V001190	WA180820090011-002	8/11/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.614	<0.614	N/A	0.614	H	UR
S09V001191	WA180820090011-003	8/11/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.624	<0.624	N/A	0.624	H	UR
S09V001072	WA180820090011-004	8/10/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.59	<0.59	N/A	0.59	H	UR
S09V001073	WA180820090011-005	8/10/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.591	<0.591	N/A	0.591	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
H = Holding time exceedance
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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RJ Lee*Group*, Inc. | Center for Laboratory Sciences
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Tel: (509) 545-4989 | Fax: (509) 544-6011

Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA190820090001
Address:	2440 Stevens Center	Samples Received:	08/19/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	08/19/09
Telephone:	509-372-1945	Analysis Date:	09/04/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification		Sampling	Analyte	CAS #	Sample Wt.	LCS	MB	Results	Duplicate	RPD	Quant. Limit	Qualifier
IH	RJLG	Date			(g)	%Rec	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)	
S09V001179	WA190820090001-001	8/12/2009	Ethylene Glycol	107-21-1	5.591	97.4	<0.39	<0.39	<0.39	N/A	0.39	I, S,H,Q
S09V001180	WA190820090001-002	8/13/2009	Ethylene Glycol	107-21-1	5.138	97.4	<0.39	<0.4	N/A	N/A	0.4	I, S,H,Q
S09V001181	WA190820090001-003	8/13/2009	Ethylene Glycol	107-21-1	5.248	97.4	<0.39	<0.4	N/A	N/A	0.4	I, S,H,Q

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: There was no surrogate added to the ICV, therefore an S qualifier. There was no internal standard in the DL, therefore no quantification. All the samples are flagged with an "I".

Qualifiers

B = Compound found in associated laboratory blank as well as sample
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s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA190820090001
Address:	2440 Stevens Center	Samples Received:	08/19/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001179	WA190820090001-001	8/12/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.872	<0.872	N/A	0.872	H	UR
S09V001180	WA190820090001-002	8/13/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.827	<0.827	N/A	0.827	H	UR
S09V001181	WA190820090001-003	8/13/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.849	<0.849	N/A	0.849	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
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a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Tel: (509) 545-4989 | Fax: (509) 544-6011

Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA190820090001
Address:	2440 Stevens Center	Samples Received:	08/19/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001179	WA190820090001-001	8/12/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.639	<0.639	N/A	0.639	H	UR
S09V001180	WA190820090001-002	8/13/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.606	<0.606	N/A	0.606	H	UR
S09V001181	WA190820090001-003	8/13/2009	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.621	<0.621	N/A	0.621	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
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D = Diluted sample
E = Report concentration was above the instrumental calibration range
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Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA260820090001
Address:	2440 Stevens Center	Samples Received:	08/25/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	08/27/09
Telephone:	509-372-1945	Analysis Date:	09/07/09
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit	Qualifier
S09V001182	WA260820090001-001	8/17/2009	Ethylene Glycol	107-21-1	5.195	98.3	<0.08	<0.08	N/A	N/A	0.08	I, S,H,Q
S09V001227	WA260820090001-002	8/17/2009	Ethylene Glycol	107-21-1	5.372	98.3	<0.08	<0.08	N/A	N/A	0.08	I, S,H,Q

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* All values reported without blank correction unless otherwise noted

Comments: There was no surrogate added to the ICV, therefore an S qualifier. There was no internal standard in the DL, therefore no quantification. All the samples are flagged with an "I".

Qualifiers

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Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA260820090001
Address:	2440 Stevens Center	Samples Received:	08/25/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	2/24/2010
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001182	WA260820090001-001	8/17/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.802	<0.802	N/A	0.802	H	UR
S09V001227	WA260820090001-002	8/17/2009	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.821	<0.821	N/A	0.821	H	UR

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LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA260820090001
Address:	2440 Stevens Center	Samples Received:	08/25/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	2/24/2010
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001182	WA260820090001-001	8/17/2009	Monobutyl Phosphate	1623-15-0	101.0	<0.615	<0.588	<0.588	N/A	0.588	H	UR
S09V001227	WA260820090001-002	8/17/2009	Monobutyl Phosphate	1623-15-0	101.0	<0.615	<0.602	<0.602	N/A	0.602	H	UR

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LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

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Diesel Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA060120100001
Address:	2440 Stevens Center	Samples Received:	01/06/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	01/20/10
Telephone:	509-372-1945	Analysis Date:	01/20/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001642	WA060120100001-001	12/29/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.978	97.2	<19.78	<19.7	N/A	N/A	19.7	H	UJ
S09V001657	WA060120100001-002	12/29/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.935	97.2	<19.78	<17.73	<17.73	N/A	17.73	H	UJ
S09V001687	WA060120100001-003	12/30/2009	Diesel Range Organics	No CAS No. - Hydrocarbon Mixture	5.550	97.2	<19.78	<18.87	N/A	N/A	18.87	H	UJ

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
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c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Gasoline Range Organics by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA060120100001
Address:	2440 Stevens Center	Samples Received:	01/06/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	01/20/10
Telephone:	509-372-1945	Analysis Date:	01/20/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001642	WA060120100001-001	12/29/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.472	96.0	<0.1	<0.11	N/A	N/A	0.11	H	UJ
S09V001657	WA060120100001-002	12/29/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.523	96.0	<0.1	<0.1	<0.1	N/A	0.1	H	UJ
S09V001687	WA060120100001-003	12/30/2009	Gasoline Range Organics	No CAS No. - Hydrocarbon Mixture	5.335	96.0	<0.1	0.1	N/A	N/A	0.1	H	UJ

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LS
9-13-2010

Comments:

Qualifiers

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c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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RJ Lee*Group*, Inc. | **Center for Laboratory Sciences**
2711 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6011

Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA060120100001
Address:	2440 Stevens Center	Samples Received:	01/06/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	01/18/10
Telephone:	509-372-1945	Analysis Date:	01/19/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001642	WA060120100001-001	12/29/2009	Ethylene Glycol	107-21-1	5.416	90.6	<0.39	<0.43	N/A	N/A	0.43	H	UJ
S09V001657	WA060120100001-002	12/29/2009	Ethylene Glycol	107-21-1	5.373	90.6	<0.39	<0.39	<0.39	N/A	0.39	H	UJ
S09V001687	WA060120100001-003	12/30/2009	Ethylene Glycol	107-21-1	5.403	90.6	<0.39	<0.39	N/A	N/A	0.39	H	UJ

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA060120100001
Address:	2440 Stevens Center	Samples Received:	01/06/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001642	WA060120100001-001	12/29/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.957	<0.957	N/A	0.957	H	UR
S09V001657	WA060120100001-002	12/29/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.833	<0.833	N/A	0.833	H	UR
S09V001687	WA060120100001-003	12/30/2009	Dibutyl Phosphate	107-66-4	101.4	<0.839	<0.853	<0.853	N/A	0.853	H	UR

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LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA060120100001
Address:	2440 Stevens Center	Samples Received:	01/06/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/22/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001642	WA060120100001-001	12/29/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.702	<0.702	N/A	0.702	H	UR
S09V001657	WA060120100001-002	12/29/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.61	<0.61	N/A	0.61	H	UR
S09V001687	WA060120100001-003	12/30/2009	Monobutyl Phosphate	1623-15-0	97.7	<0.615	<0.626	<0.626	N/A	0.626	H	UR

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LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA130120100001
Address:	2440 Stevens Center	Samples Received:	01/13/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	01/18/10
Telephone:	509-372-1945	Analysis Date:	01/19/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090877

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V001702	WA130120100001-001	1/5/2010	Ethylene Glycol	107-21-1	5.438	90.6	<0.04	<0.08	N/A	N/A	0.08	
S09V001717	WA130120100001-002	1/5/2010	Ethylene Glycol	107-21-1	5.366	90.6	<0.04	<0.08	<0.08	N/A	0.08	
S09V001732	WA130120100001-003	1/7/2010	Ethylene Glycol	107-21-1	5.353	90.6	<0.04	<0.08	N/A	N/A	0.08	

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Comments:

Qualifiers

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA130120100001
Address:	2440 Stevens Center	Samples Received:	01/13/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090877

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001702	WA130120100001-001	1/5/2010	Dibutyl Phosphate	107-66-4	98.7	<0.615	<0.869	<0.869	N/A	0.869	H	UR
S09V001717	WA130120100001-002	1/5/2010	Dibutyl Phosphate	107-66-4	98.7	<0.615	<0.879	<0.879	N/A	0.879	H	UR
S09V001732	WA130120100001-003	1/7/2010	Dibutyl Phosphate	107-66-4	98.0	<0.615	<0.853	<0.853	N/A	0.853	H	UR

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LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA130120100001
Address:	2440 Stevens Center	Samples Received:	01/13/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090877

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001702	WA130120100001-001	1/5/2010	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.637	<0.637	N/A	0.637	H	UR
S09V001717	WA130120100001-002	1/5/2010	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.645	<0.645	N/A	0.645	H	UR
S09V001732	WA130120100001-003	1/7/2010	Monobutyl Phosphate	1623-15-0	98.0	<0.615	<0.625	<0.625	N/A	0.625	H	UR

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LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

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Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA200120100001
Address:	2440 Stevens Center	Samples Received:	01/20/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	01/20/10
Telephone:	509-372-1945	Analysis Date:	01/21/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S09V001747	WA200120100001-001	1/14/2010	Ethylene Glycol	107-21-1	5.108	80.2	<0.08	<0.08	<0.08	N/A	0.08	
S09V001762	WA200120100001-002	1/15/2010	Ethylene Glycol	107-21-1	5.284	80.2	<0.08	<0.08	N/A	N/A	0.08	

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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA200120100001
Address:	2440 Stevens Center	Samples Received:	01/20/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
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Fax:	509-372-1878	Client Project:	Vadose
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Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001747	WA200120100001-001	1/14/2010	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.806	<0.806	N/A	0.806	H	UR
S09V001762	WA200120100001-002	1/15/2010	Dibutyl Phosphate	107-66-4	106.0	<0.839	<0.82	<0.82	N/A	0.82	H	UR

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Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA200120100001
Address:	2440 Stevens Center	Samples Received:	01/20/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/22/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
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Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier	
S09V001747	WA200120100001-001	1/14/2010	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.59	<0.59	N/A	0.59	H	UR
S09V001762	WA200120100001-002	1/15/2010	Monobutyl Phosphate	1623-15-0	98.7	<0.615	<0.601	<0.601	N/A	0.601	H	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
H = Holding time exceedance
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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RJ Lee*Group*, Inc. | Center for Laboratory Sciences
2711 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6011

Ethylene Glycol by EPA 8015 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA250120100001
Address:	2440 Stevens Center	Samples Received:	01/25/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	01/25/10
Telephone:	509-372-1945	Analysis Date:	01/27/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S10V000084	WA250120100004-001	1/19/2010	Ethylene Glycol	107-21-1	5.042	80.8	<0.08	<0.08	<0.08	N/A	0.08	

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
H = Holding time exceedance
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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RJ Lee*Group*, Inc. | **Center for Laboratory Sciences**
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Dibutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA250120100001
Address:	2440 Stevens Center	Samples Received:	01/25/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/02/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S10V000084	WA250120100004-001	1/19/2010	Dibutyl Phosphate	107-66-4	104.0	<1.15	<1.198	<1.198	N/A	1.198	

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
H = Holding time exceedance
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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RJ Lee*Group*, Inc. | **Center for Laboratory Sciences**
2711 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6011

Monobutyl Phosphate by EPA 9056 Modified

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA250120100001
Address:	2440 Stevens Center	Samples Received:	01/25/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/02/10
Telephone:	509-372-1945	Analysis Date:	02/23/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (mg/kg)	Results (mg/kg)	Duplicate (mg/kg)	RPD	Quant. Limit (mg/kg)	Qualifier
S10V000084	WA250120100004-001	1/19/2010	Monobutyl Phosphate	1623-15-0	97.9	<0.846	<0.88	<0.88	N/A	0.88	

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: Analysis performed by Soutwest Research Institute (SwRI)

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
H = Holding time exceedance
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Appendix 4

Laboratory Narrative and Chain-of-Custody Documentation

CLS
Center for Laboratory Sciences

RJ LeeGroup, Inc. | Center for Laboratory Sciences
2710 North 20th Avenue, Pasco, WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

February 11, 2010

Washington River Protection Solutions
Attention: Steve McKinney
2440 Stevens Center
Richland, WA 99352 MSIN T6-02

Enclosed is the final report for the Vadose Soil Samples and equipment Rinsates for C-Farm. Samples were delivered to RJLee Group, Center for Laboratory Sciences (CLS) between April 2009 and January 2010. Samples were submitted to CLS and analyzed for Diesel Range Organics, Gasoline, Range Organics, Ethylene Glycol, Organochlorine Pesticides, Polychlorinated Biphenyls- Aroclors, Polychlorinated Biphenyls- Congeners, and Monobutyl and Dibutyl Phosphate.

The analysis of the Polychlorinated Biphenyls- Congeners was subcontracted to Test America Laboratories, Inc in Knoxville, TN. The analysis of Monobutyl and Dibutyl Phosphate was subcontracted to Southwest Research Institute in San Antonio, TX. Included in this report are the reports of analysis and supporting data package for each subcontracted analysis. The results for Mono and Dibutyl Phosphate have been corrected for dry weights on CLS's reports.

This report consists of ten sections, which includes Data Report Summaries, Analytical Reports, Chain of Custodies & Login Reports, Six Raw Data sections and Certificates of Analyses. A copy of this report in its entirety, along with the EDD will be delivered on a CD- Rom Disc.

The results provided in this report relate only to the items tested. Samples were received in acceptable conditions unless otherwise noted. This test report shall not be reproduced, except in full, without written approval of CLS.

This report has been reviewed and approved by the following individual:

Jonathan Kon — March 11, 2010
Jonathan Kon, Laboratory Manager — Date

If you have any questions, please feel free to contact Jonathan Kon at 509-545-4989 or email: jkon@rjlg.com.

Sample Group 20090161

DATA REPORT SUMMARY

Sample Set: **20090161**
Receipt Date: **April 21, 2009**
Collection Date(s): **April 14, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA210420090001**

CLS received one (1) sample for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on April 21, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA21042009001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA21042009001

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
All criteria were met

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
An Initial Calibration Verification was not run for this sample group. A second source standard was not run either. Therefore the ICV sample requirements were not within acceptable limits for this sample group. All samples have been flagged with an "I" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair, however there was a failure of the Matrix Duplicate RPD (43.8%). A "c" flag has been applied accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA21042009001, WA270420090001 and WA070520090005

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the closing CB which had compounds present. The initial CB was analyzed and there was a surrogate failure. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
Two sets of Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) pairs were analyzed. The LCS and LCSD recoveries for the first pair were not within the acceptable limits for the sample group (1.80% and 1.1% respectively). All samples have been flagged with an "a" accordingly. The second pair was within acceptable limits.

Duplicates (Relative percent difference +/-15%)
There was a RPD failure on the first LCS/LCSD pair (48.28%) however; the second LCS/LCSD pair was within the acceptable limits. The Matrix Duplicate analyzed within the analytical batch also passed RPD criteria.

Matrix Spike (+/-30%)
The Matrix Spike Sample was analyzed on sample WA27042009001-002 and was not within acceptable limits (38.6%). All affected samples have been flagged with an "s" accordingly.

Other Comments:

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090161

DATA REPORT SUMMARY

Sample Set: **20090161**
Receipt Date: **April 27, 2009**
Collection Date(s): **April 21 & 22, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA270420090001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on April 27, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA21042009001, WA270420090001 and WA070520090005

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the closing CB which had compounds present. The initial CB was analyzed and there was a surrogate failure. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
Two sets of Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) pairs were analyzed. The LCS and LCSD recoveries for the first pair were not within the acceptable limits for the sample group (1.80% and 1.1% respectively). All samples have been flagged with an "a" accordingly. The second pair was within acceptable limits.

Duplicates (Relative percent difference +/-15%)
There was a RPD failure on the first LCS/LCSD pair (48.28%) however; the second LCS/LCSD pair was within the acceptable limits. The Matrix Duplicate analyzed within the analytical batch also passed RPD criteria.

Matrix Spike (+/-30%)
The Matrix Spike Sample was analyzed on sample WA27042009001-002 and was not within acceptable limits (38.6%). All affected samples have been flagged with an "s" accordingly.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090161

DATA REPORT SUMMARY

Sample Set: **20090161**
Receipt Date: **May 7, 2009**
Collection Date(s): **April 30, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA070520090005**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on May 7, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA21042009001, WA270420090001 and WA070520090005

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the closing CB which had compounds present. The initial CB was analyzed and there was a surrogate failure. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
Two sets of Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) pairs were analyzed. The LCS and LCSD recoveries for the first pair were not within the acceptable limits for the sample group (1.80% and 1.1% respectively). All samples have been flagged with an "a" accordingly. The second pair was within acceptable limits.

Duplicates (Relative percent difference +/-15%)
There was a RPD failure on the first LCS/LCSD pair (48.28%) however; the second LCS/LCSD pair was within the acceptable limits. The Matrix Duplicate analyzed within the analytical batch also passed RPD criteria.

Matrix Spike (+/-30%)
The Matrix Spike Sample was analyzed on sample WA27042009001-002 and was not within acceptable limits (38.6%). All affected samples have been flagged with an "s" accordingly.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090329

DATA REPORT SUMMARY

Sample Set: **20090329**
Receipt Date: **May 21, 2009**
Collection Date(s): **May 13, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA210520090002**

CLS received one (1) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on May 21, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA210520090002, WA060820090014, and WA110820090010

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits. There is no internal standard present. All samples have been flagged with an "I" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090329

DATA REPORT SUMMARY

Sample Set: **20090329**
Receipt Date: **June 2, 2009**
Collection Date(s): **May 18 & 19, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA020620090001**

CLS received three (3) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 2, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA020620090001 and WA020620090002

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was evidence of compounds present in the blank samples greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (776%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was Evidence of compounds present in the blank sample greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures on the LCS/LCSD. Work order WA020620090001 and WA020620090002 were both run in the same analytical batch. However, the RPD on the sample (WA020620090002-002) Duplicate was not in acceptable limits (181%). Affected samples have been flagged with a "c" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090378

DATA REPORT SUMMARY

Sample Set:	**20090378**
Receipt Date:	**June 2, 2009**
Collection Date(s):	**May 21, 2009**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA020620090002**

CLS received two (2) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on June 2, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA020620090002, WA110620090003 and WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the second and closing CB which had compounds present. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (177.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair. Matrix Duplicates were analyzed on WA020620090002, WA110620090003 and WA220620090005. The Matrix Duplicate analyzed on sample WA220620090005-001 was not within acceptable limits (44.2%), however, the others were within limits. All affected samples have been flagged with an "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA020620090002 and WA110620090003

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
Matrix Spikes were analyzed and recoveries were within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA020620090001 and WA020620090002

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was evidence of compounds present in the blank samples greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (776%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was Evidence of compounds present in the blank sample greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures on the LCS/LCSD. Work order WA020620090001 and WA020620090002 were both run in the same analytical batch. However, the RPD on the sample (WA020620090002-002) Duplicate was not in acceptable limits (181%). Affected samples have been flagged with a "c" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pairs and Matrix Duplicates.

Matrix Spike (+/-30%)
A Matrix Spike for WA02062009002-002 was analyzed and recovery was not within the acceptance criteria. The sample was doubled spiked with surrogate and standard.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times

Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090378

DATA REPORT SUMMARY

Sample Set: **20090378**
Receipt Date: **June 9, 2009**
Collection Date(s): **June 1, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA110620090001**

CLS received one (1) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 9, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090365

DATA REPORT SUMMARY

Sample Set: **20090365**
Receipt Date: **June 11, 2009**
Collection Date(s): **June 4, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA110620090002**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 11, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090365

DATA REPORT SUMMARY

Sample Set: **20090365**
Receipt Date: **June 11, 2009**
Collection Date(s): **June 3 & 4, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA110620090003**

CLS received two (2) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on June 11, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA020620090002, WA110620090003 and WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the second and closing CB which had compounds present. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (177.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair. Matrix Duplicates were analyzed on WA020620090002, WA110620090003 and WA220620090005. The Matrix Duplicate analyzed on sample WA220620090005-001 was not within acceptable limits (44.2%), however, the others were within limits.. All affected samples have been flagged with an "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA020620090002 and WA110620090003

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
Matrix Spikes were analyzed and recoveries were within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria except for Pentachlorophenol (15 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times

Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090365

DATA REPORT SUMMARY

Sample Set: **20090365**
Receipt Date: **June 15, 2009**
Collection Date(s): **June 9, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA150620090004**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 15, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090454

DATA REPORT SUMMARY

Sample Set: **20090454**
Receipt Date: **June 22, 2009**
Collection Date(s): **June 15, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA220620090005**

CLS received three (3) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on June 22, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA020620090002, WA110620090003 and WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the second and closing CB which had compounds present. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (177.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair. Matrix Duplicates were analyzed on WA020620090002, WA110620090003 and WA220620090005. The Matrix Duplicate analyzed on sample WA220620090005-001 was not within acceptable limits (44.2%), however, the others were within limits.. All affected samples have been flagged with an "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group, with the exception of the closing CV (72% recovery). Affected samples have been flagged with an "a" accordingly.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found not to be within acceptable limits (200%). A second Detection Level Standard was analyzed prior to the samples and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample

A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
There were several surrogate recovery failures for this analytical batch. WA22062009005-001, WA220620090005-001MD, WA220620090005-001MS, WA220620090005-002 and WA22062009005-003 have all been flagged with an "S" accordingly.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA220620090005 and WA200120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample

A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria except for Pentachlorophenol (35 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090575

DATA REPORT SUMMARY

Sample Set: **20090575**
Receipt Date: **August 6, 2009**
Collection Date(s): **August 3, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA060820090014**

CLS received two (2) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on August 3, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA060820090014 (liquid matrix) and WA110820090010 (solid matrix)

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was evidence of compounds present in the middle and closing blank samples greater than the quantitation limit. Affected samples have been flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found not to be within acceptable limits (163.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A soil Method blank and a liquid Method blank were analyzed. Both had evidence of compounds present in the blank sample greater than the quantitation limit. All affected samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
Two Laboratory Control Sample and Laboratory Control Sample Duplicate pairs (solid and liquid) were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There was no RPD failure of the LCS/LCSD (solid) pair or the LCS/LCSD (liquid). A Matrix Duplicate was analyzed on both WA110820090010 and WA060820090014. The RPDs for both were within the acceptable criteria.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on both WA110820090010 and WA060820090014. The spike recoveries for both were within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA060820090014

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was not within the acceptance criteria (66%). Affected samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA210520090002, WA060820090014 and WA110820090010

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits. There is no internal standard present. All samples have been flagged with an "I" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Other Comments:
Not Applicable

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times

Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were not within the acceptance criteria. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There was RPD failures of the LCS/LCSD pair. There were no RPD failures of the Matrix Duplicate. All samples have been flagged with an "a" and "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and the recovery was within the acceptance criteria.

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090575

DATA REPORT SUMMARY

Sample Set: **20090575**
Receipt Date: **August 11, 2009**
Collection Date(s): **July 30, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA110820090010**

CLS received five (5) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on August 11, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA060820090014 (liquid matrix) and WA110820090010 (solid matrix)

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was evidence of compounds present in the middle and closing blank samples greater than the quantitation limit. Affected samples have been flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was not analyzed.. All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A soil Method blank and a liquid Method blank were analyzed. Both had evidence of compounds present in the blank sample greater than the quantitation limit. All affected samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

Two Laboratory Control Sample and Laboratory Control Sample Duplicate pairs (solid and liquid) were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There was no RPD failure of the LCS/LCSD (solid) pair or the LCS/LCSD (liquid). A Matrix Duplicate was analyzed on both WA110820090010 and WA060820090014. The RPDs for both were within the acceptable criteria.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on both WA110820090010 and WA060820090014. The spike recoveries for both were within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA110820090010 and WA180820090011

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group with the exception of the middle and ending CCV. The affected samples have been flagged with an "a" accordingly.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on samples WA110820090010-001 and WA180820090011-004. The spike recovery for WA110820090010-001 was acceptable, however; recovery for WA180820090011-004 was not within the acceptance criteria (54%). The affected samples have been flagged with an "s" accordingly.

Other Comments:
There were several surrogate recovery failures for this analytical batch. All the samples for WA110820090010 and their duplicate and spike sample as well as all the samples for WA180820090011 and its duplicate and spike sample had recovery failures. All the samples have all been flagged with an "S" accordingly.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA210520090002, WA060820090014, and WA110820090010

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits. There is no internal standard present. All samples have been flagged with an "I" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for alpha Hexachlorcyclohexane (139.9%), beta Hexachlorocyclohexane (202.7%), delta Hexachlorocyclohexane (281%), and Pentachlorophenol (23.6 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.except for Pentachlorophenol (56 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Workorders contained in Analytical Batch

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090574

DATA REPORT SUMMARY

Sample Set: **20090574**
Receipt Date: **August 12, 2009**
Collection Date(s): **August 3 & 4, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA120820090018**

CLS received three (3) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 12, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090575

DATA REPORT SUMMARY

Sample Set: **20090575**
Receipt Date: **August 13, 2009**
Collection Date(s): **August 5, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA140820090001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 13, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090608

DATA REPORT SUMMARY

Sample Set:	**20090608**
Receipt Date:	**August 18, 2009**
Collection Date(s):	**August 10 & 11, 2009**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA180820090011**

CLS received five (5) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on August 18, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA180820090011

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found not to be within acceptable limits (163.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" flag accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA110820090010 and WA180820090011

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group with the exception of the middle and ending CCV. The affected samples have been flagged with an "a" accordingly.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on samples WA110820090010-001 and WA180820090011-004. The spike recovery for WA110820090010-001 was acceptable, however; recovery for WA180820090011-004 was not within the acceptance criteria (54%). The affected samples have been flagged with an "s" accordingly.

Other Comments:
There were several surrogate recovery failures for this analytical batch. All the samples for WA110820090010 and their duplicate and spike sample as well as all the samples for WA180820090011 and its duplicate and spike sample had recovery failures. All the samples have all been flagged with an "S" accordingly.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for alpha Hexachlorocyclohexane (139.9%), beta Hexachlorocyclohexane (202.7%), delta Hexachlorocyclohexane (281%), and Pentachlorophenol (23.6 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090608

DATA REPORT SUMMARY

Sample Set: **20090608**
Receipt Date: **August 19, 2009**
Collection Date(s): **August 12 & 13, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA190820090001**

CLS received three (3) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 19, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090608

DATA REPORT SUMMARY

Sample Set: **20090608**
Receipt Date: **August 25, 2009**
Collection Date(s): **August 17, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA260820090001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 25, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA260820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
TThe BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (0%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090878

DATA REPORT SUMMARY

Sample Set:	**20090878**
Receipt Date:	**January 6, 2010**
Collection Date(s):	**December 29 & 30, 2009**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA060120100001**

CLS received three (3) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on January 6, 2010.

Diesel Range Organics

Workorders contained in Analytical Batch
WA060120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA060120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)

There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA060120100001 and WA130120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for alpha Hexachlorcyclohexane (139.9%), beta Hexachlorocyclohexane (202.7%), delta Hexachlorocyclohexane (281%), and Pentachlorophenol (23.6 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria except for Hexachlorobenzene (61%), Aldrin (56%), alpha Hexachlorocyclohexane(68%), delta

Hexachlorocyclohexane(68 %),DDE(65%),Heptachlor(67%), Heptachlor Epoxide(62%), and Pentachlorophenol(345 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times

Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090877

DATA REPORT SUMMARY

Sample Set:	**20090877**
Receipt Date:	**January 13, 2010**
Collection Date(s):	**January 5 & 7, 2010**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA130120100001**

CLS received three (3) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on January 13, 2010.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA060120100001 and WA130120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090878

DATA REPORT SUMMARY

Sample Set: **20090878**
Receipt Date: **January 20, 2010**
Collection Date(s): **January 14 & 15, 2010**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate**
RJLG ID: **WA200110100001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on January 20, 2010.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA220620090005 and WA200120100001

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090878

DATA REPORT SUMMARY

Sample Set: **20090878**
Receipt Date: **January 25, 2010**
Collection Date(s): **January 19, 2010**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate**
RJLG ID: **WA250120100004**

CLS received one (1) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis January 25, 2010.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA250120100004

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

VVA2\0720090001

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090161

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE	Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY
		Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
	S09V000227	VA	4/20/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
RTSteele RTSteele	4-21-09 0930	R.T. Sickle	4-21-09 0930
R.T. Sickle	4-21-09 1240	Sterling Shaw	4-21-09 1240

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V09-002-015

COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C6392, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 56	ACTUAL SAMPLE DEPTH: 14'-15'	COA: 301483ES10
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.

PRICE CODE: 8P

AIR QUALITY: ☐

DATA TURNAROUND: 75 Days / 75 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~1~~ 2 4-14-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		Lab Sample ID
B1YT71	SOIL	4-14-09	1300	✓	S09V000148 liner A
					S09V000149 liner B

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-14-09 1515	Tim Gollock	4-17-09 1515

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

only two liners were filled due to material

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA07052009 0005

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090161
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YT80	S09V000230	VA	5/6/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
B1YT83	S09V000231	VA	5/6/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Steele	R Steele		5-7-09 0950	R Ellingsworth	R Ellingsworth		5-7-09 0950
Relinquished By			Date/Time	Received By			Date/Time
RD Ellingsworth CHPRC			MAY 07 2009 1437	Sterling Shaw			0237 MAY 07 2009
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-024	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6392, I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg61	42-44'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
20090160

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT80	SOIL	4-30-09	1015 ~~1015~~ 4/30	✓
S09U000160			4-30-09	
S09V000161				
S09V000162				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane, Larry Rosane	4-30-09/ 1510	Tim Gallock Tim Gallock	4/30/09 1510

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-024	PAGE 2 OF 2
COLLECTOR Rosalie, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 61	ACTUAL SAMPLE DEPTH 42'-44'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-027	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6392, I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-5 pg 61	56-58'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
20090160

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT83 164	SOIL	4-30-09	1415	✓
S09V000175				
S09V000165				
S09V000166				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane, Larry Rosane	4-30-09/1510	Tim Tech Tim Tech	4/30/09 1510
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-027	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 p161	ACTUAL SAMPLE DEPTH 56'-58'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA27042009000 1

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090161
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
	S09V000228	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
	S09V000229	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	R.F. Steele	[signature]	4-27-09 10:00		R. Ellingsworth	[signature]	4-27-09 10:00
Relinquished By			Date/Time	Received By			Date/Time
R Ellingsworth		[signature]	4-27-09 1246		[signature]	Jim Sean	04/27/09 1246
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA2105200900 02

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090329
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES GRP-07-003 Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTB1	S09V000457	VA	5/21/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Tim Elock	Tim Elock	Tim Elock	5-21-09 1053	SCOTT HAMAKER	SCOTT HAMAKER	SCOTT HAMAKER	5/21/09 1053
SCOTT HAMAKER	SCOTT HAMAKER	SCOTT HAMAKER	5/21/09 1257	Joe Seaver	Joe Seaver	Joe Seaver	05/21/09 1257
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-045	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne, Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-526-3 pg 65	19.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE
54°

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~2~~ 2 1/2 SAF 5-13-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTB1	SOIL	5-13-09	0930
S09V000 398			
S09V000 399	S09V000 401		
S09V000 400			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	5-13-09/ 1030	RtSteele RtSteele	5-13-09 1030
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

2 1/2 liner filled (lack of soil)

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-045	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6404, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 65	ACTUAL SAMPLE DEPTH 19.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

GJA020620090001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090329
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTB4	S09V000458	VA	5/20/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
B1YTB7	S09V000459	VA	5/20/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
B1YTC0	S09V000460	VA	5/20/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Verified by TJW 04/02/09

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R F Steele / R F Steele	6.2.09 1030	R Ellingsworth / R Ellingsworth	6-2-09 1030
R Ellingsworth / R Ellingsworth	6-2-09 1332	Joe Sears / Joe Sears	1332 6-2-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-048	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Karen White	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-005	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 Pg 66	31' to 33'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTB4	SOIL	5-18-09	0920
S09V000413 (a)			
S09V000414 (b)			
S09V000415 (c)			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kinch	5-18-09 1455	TM McGlloch	5-18-09 1455
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-051	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kausk, White	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P66	42' to 44'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTB7	SOIL	5-18-09	1140
S09V000430	(a)		
S09V000431	(b)		
S09V000432	(c)		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kausk	5-18-09 1455	Tim Gilbert	5-18-09 1455
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-054	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 67	57'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTC0	SOIL	5-19-09	0945	✓
S09V000445				
S09V000446				
S09V000447				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	5-19-09 / 1330	TM Colloch	5-19-09 1330
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA0206200 70002

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090378
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 45 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTH1	S09V000635	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP, PCB, HC1D, GRO, DRO, PESTICIDES	COOL
B1YTH3	S09V000651	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP, PCB, HC1D, GRO, DRO, PESTICIDES	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

verified by TJW & JS on 06/02/09

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R. Steele	6.2.09 10 30	R Ellingsworth	6-2-09 10 30
R Ellingsworth	6-2-09 1332	Joe Seors	6-2-09 1332

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-094	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6400; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 68	5-7'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

Q0090677

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTH1	SOIL	5-21-09	09:25	✓
S09V000623				
S09V000624				
S09V000625				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	5-21-09/1322	Tut Tut Tut Tut	5-21-09 1322
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-097	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6400; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 68	10'-12'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

Q0090377

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTH3	SOIL	5-21-09	1021
S09V000639			
S09V000640			
S09V000641			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	5-21-09/1322	Tim Flood Tim Flood	5-21-09 1322
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1106200900001

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090378

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
Collector: STEVE MCKINNEY	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
SAF No.: V09-002	Logbook/ Work Package No.: N/A	Ice Chest No.: NO Temp.: 2-6 DEGREES
Project Title: C FARM VADOSE	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Shipped To (Lab): CLS	Data Turnaround: ~~24 HOURS~~ 60 days MA 06/11/09 phone conv. to S. McKinney from J. Sears	Parts and Return No.
Protocol: N/A		

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTH6	S09V000667	VA	6/9/09	n/a	500mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leslie Diaz Leslie Diaz	6/9/09 1045	KB Hulse KB Hulse	6/9/09 1045
KB Hulse KB Hulse	6-9-09	Joe Sears Joe Sears	06/09/09 1456

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-100	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kawa, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6400; I-003	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3	132.5 to 134.5	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
20090377

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

Sample Received via a cooler on ice. JS 06/05/09 1452

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTH6	SOIL	6-1-09	1135	✓
S09N000 655 A				
656 B				Pag 2
657 C				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kawa	6-1-09 1400	RJSteele RJSteele	6.1.09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-100	PAGE 2 OF 2
COLLECTOR Karen Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6400; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 P56	ACTUAL SAMPLE DEPTH 132' To 134.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

WA1106200900U2

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE			C.O.C. No. 20090365
			Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: NO	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: ~~24 HOURS~~ 60 days QS 06/11/09 Phone Conv to S. McKinney	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTD8	S09V000570	VA	6/10/09	n/a	~~500~~ 125 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B1YTF1	S09V000586	VA	6/10/09	n/a	~~500~~ 125 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
					AM 6/11/09		

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R. Kitteelg	6-11-09 0900	J. Herrick	6.11.09 0900
J. Herrick	6/11/09 0920	Joe Sears	6/11/09 0920

Matrix*

S = Soil		DL = Drum Liquids	
SE = Sediment		T = Tissue	
SO = Solid		WI = Wipe	
SL = Sludge		L = Liquid	
W = Water		V = Vegetation	
O = Oil		VA = Vapor	
A = Air		X = Other	
DS = Drum Solids			

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-072	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Kanes	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6406, I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 71	18-20'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2CC9C364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C											
TYPE OF CONTAINER	Liner											
NO. OF CONTAINER(S)	3											
VOLUME	160g											
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YTD8	SOIL	6-4-09	1030	✓									
509U000558	(a)												
559	(b)												
560	(c)												

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Jimmy Rosanne 6-4-09	1445	RL Steele RLSteele 6.4.09	1445
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-072	PAGE 2 OF 2
COLLECTOR Rosanne Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH 18-20'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

WMI1106200900002

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-075	PAGE 1 OF 2
COLLECTOR: Rosane, Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH: 26 - 28'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: ~~HNF-N-576-3 pg 71~~ JAR 6-4-09		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF1	SOIL	6-4-09	1328	✓
S09V000374	(a)			
375	(b)			
376	(c)			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	6-4-09 / 1445	RKSteele RKSteele	6-4-09 1445

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1100290002

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-075	PAGE 2 OF 2
COLLECTOR Rosalie Kerner	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-526-3 pg 71	ACTUAL SAMPLE DEPTH 26-28'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1106200900 03

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090365
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTD2	S09V000510	VA	6/10/09	n/a	~~500~~ 125 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B1YTD5	S09V000554	VA	6/10/09	n/a	~~500~~ 125 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B1YTD5					km 6/11/09		
MA 01/19/10							

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RJ Stoelle	RJ Stoelle		6-11-09 0900	J. Harrick	J. Harrick		6-11-09 0900
J. Harrick	J. Harrick		6/11/09 0920	Joe Sears	Joe Sears		6/11/09 0920

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA1106200910003

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-066	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, White	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6406, I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P570	10'-12'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	2 6-3-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTD2	SOIL	6-3-09	1425
S09V000497	(A)		
S09V000498	(B)		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, Edward Kauer	6-3-09 1530	Tuttelbod Tuttelbod	6-3-09 1530

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Liner One Full
Liner Two 1/2

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1106200910003

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-066	PAGE 2 OF 2
COLLECTOR Kauer, White	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS70 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1106200900 03

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-069	PAGE 1 OF 2
COLLECTOR: Rosanne Kaner	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS71	ACTUAL SAMPLE DEPTH: 14-16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTD5	SOIL	6-4-09	0934	✓
S09U000542	(a)			
543	(b)			
544	(c)			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Lanny Rosanne Lanny Rosanne 6-4-09	1445	RRSteele	6-4-09 1445
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA11062009 0003

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-069	PAGE 2 OF 2
COLLECTOR Rosanne Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA15062009 0004

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE			C.O.C. No. 20090365
			Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: NO	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTF4	S09V000602	~~VA~~	6/15/09	n/a	125mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B1YTF7	S09V000618		6/15/09	n/a	125mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Steele	R Steele		6.15.09 1015	RD Julian CHPRC			6.15.09 1015
R.D. Julian			1350 6-15-09	Joe Sears			1350 6-15-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-078	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6406, I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg	54.5-56.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

S0090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF4	SOIL	6-9-09	0920	✓
S09V000 590				
↓ 591				
✓ 593				

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Larry Rosane Larry Rosane	6-9-09 / 1430	RECEIVED BY/STORED IN: R Steele	6-9-09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-078	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3,pg	ACTUAL SAMPLE DEPTH 54.5'- 56.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-081	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust Kauer	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6406, I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 72	59' - 61'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTF7	SOIL	6-9-09	1055
SO9V000 606			
607			
608			

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [illegible]	6-9-09 1430	R L Bell & J Steele	6-9-09 1430

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-081	PAGE 2 OF 2
COLLECTOR Rosane Rust Kunz	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 72	ACTUAL SAMPLE DEPTH 59-61'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA22062009 0005

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090454
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B20XV5	S09V000761	VA	6/22/09	n/a	125mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XV9	S09V000762	VA	6/22/09	n/a	125mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW3	S09V000763	VA	6/22/09	n/a	125mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RFSteele	RFSteele		6.22.09 1035	R. Ellingsworth	RE		6.22.09 1035
R Ellingsworth	RE		6-22-09 1357	Joe Seors	Joe Seors		6-22-09 1357

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-102	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane, Rust, Kower	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6402; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 73	6-8'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XV5

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	2 liners
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XV5	SOIL	6-15-09	0935
S09V000725	Liner "B"		
726	Liner "A"		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	6-15-09 / 1352	RHHood RASteele	6.15.09 1352
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
1 3/4 Liners full

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-102	PAGE 2 OF 2
COLLECTOR Rosane, Rust, Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6402; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-5, pg 73	ACTUAL SAMPLE DEPTH 6'-8'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-106	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust Kamm	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6402; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 73		301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

46°

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XV8

20090542

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	82 6-15-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B20XV9	SOIL	6-15-09	1017	✓
509U000738	Liner A			
739	Liner B			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	6-15-09 1352	R Stetle R Stetle	6.15.09 1352
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

2 full Liners

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-106	PAGE 2 OF 2
COLLECTOR Rosane, Rust Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6402; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-110	PAGE 1 OF 2
COLLECTOR Rosawe, Rust, Kamer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6402; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH 14'-16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090542

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XW2

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1/2 6-15-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW3	SOIL	6-15-09	1053
S09V100751	Liner A		
752	Liner B		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosawe Larry Rosawe	6-15-09 1352	R.L. Steele R.L. Steele	6-15-09 1352
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

1-1/2 liner full

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-110	PAGE 2 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust Kauer	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6402; I-003	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3,973	14'-16'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
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A-6003-618(01/06)

WA06082009 0014

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090 575

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE		
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YY17	S09V000937		8/5/09	n/a	3 ~~1 L PLASTIC~~ GLASS 8-6-09	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B1YY17	S09V000938		8/5/09	n/a	2 ~~1 L PLASTIC~~ GLASS 8-6-09	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R.L. Humbers / R.L. Humbers	1000 8-6-09	F.D. Julian / F.D. Julian	1000 1000 8-6-09
R.D. Julian / R.D. Julian	1135 8-6-09	Joe Sears / Joe Sears	1135 8-6-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-003-014	PAGE 1 OF 3

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
KAUER	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	**75 Days / 75 Days**
WMA-C Tank Farm -EB	WMA C Sampling for CMS - QC Sampling		V09-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P975	N/A	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C	Cool~4C	HNO3 to pH <2	HNO3 to pH <2	Cool~4C	Cool~4C	Cool~4C	ZnAc+NaOH to pH > 9/Cool~6C	NaOH to pH >= 12/Cool~4C	None
TYPE OF CONTAINER	aGs*	aG	G/P	G	aG	aG	G/P	G/P	G/P	P
NO. OF CONTAINER(S)	3	4	1	1	3	2	1	1	1	1
VOLUME	40mL	1000mL	500mL	500mL	1000mL	1000mL	250mL	500mL	60mL	125mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	Mercury - 7470 - (CV) (TF) (Mercury)	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS	SEE ITEM (6) IN SPECIAL INSTRUCTIONS	Sulfide - 9215 (Sulfide)	Total Cyanide - 9014 (TF) (Cyanide)	pH (Water) - 9040 (TF) (pH Measurement)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YY17	WATER	8-3-09	1037	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / Ed Kauer	8-3-09 1400	R Rittof / R Rittof	8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-014	PAGE 2 OF 3
COLLECTOR KAUR	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7P	DATA TURNAROUND
SAMPLING LOCATION WMA-C Tank Farm -EB	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 75 HNF-N-576-3	ACTUAL SAMPLE DEPTH N/A	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine}
(3)ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc}
(4)PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260}
(5)Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Hexachlorobenzene}
(6)IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-003-014	PAGE 3 OF 3

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
KAUR	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
WMA-C Tank Farm -EB	WMA C Sampling for CMS - QC Sampling		V09-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.** 1575	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3	N/A	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2					
TYPE OF CONTAINER	G/P	G/P	G/P	G/P	G/P					
NO. OF CONTAINER(S)	4	1	1	1	2					
VOLUME	1000mL	1000mL	1000mL	1000mL	1000mL					
SAMPLE ANALYSIS	I129_SEP_GEA (TF) (Iodine-129)	SEE ITEM (7) IN SPECIAL INSTRUCTIONS	Nickel-63 (TF) (Nickel-63)	Selenium-79 (TF) (Selenium-79)	Strontium-89,90 – Sr-90 (Strontium-90)					

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YY17	WATER	8-3-09	1037	✓	✓	✓	✓	✓					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kaur	8-3-09 1400	[illegible]	8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(7)Isotopic Plutonium {Plutonium-238, Plutonium-239/240}

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA11082009 0010

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090575

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE		
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B215K8	S09V000865		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B215K9	S09V000878		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW6	S09V000906		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW9	S09V000907		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XX2	S09V000908		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

verified 08/11/09 TJL

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Steele	R Steele		8-11-09 0930	R.D. Julian	R.D. Julian		0930 8-11-09
R.D. Julian	R.D. Julian		8-11-09 1300	Joe Sears	Joe Sears		1300 08/11/09
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-174	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rost, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; Surface	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 Pg 74	0-1	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A PCB 7/29/09		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
222S20090574

PRESERVATION	~~Cool~~ ~~4C~~ ~~Cool~~ 6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B215K8	SOIL	7-30-09	08:25	✓
S09V00083B				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [signature] 7-30-09	1315	R H Steele 7.30.09	1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-174	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. 5574 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-175	PAGE 1 OF 2
COLLECTOR KANZE, Rust, Rosame	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS 74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0 – 1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A PGB 7/29/09		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	~~Cool~4C/Cool~~ 6C
		TYPE OF CONTAINER	G/P
		NO. OF CONTAINER(S)	2
		VOLUME	500mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B215K9	SOIL	7-30-09	0830	✓
509V000869				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Ed Kanzer	DATE/TIME 7-30-09 1315	RECEIVED BY/STORED IN R Steele	DATE/TIME 7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-175	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-113	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 A24	5-7'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

57"

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW6	SOIL	07-30-09	1000 ✓
S09V000882	A		
S09V000883	B		
S09V000884	C		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Elkins, Edward 7-30-09	1315	RtSteele RtSteele	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-113	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 5-7	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-116	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7466; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.** Pg 74	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3	10' to 12'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

75

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW9	SOIL	7-30-09	1038
S09V000891	(A)		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [signature]	7-30-09 1315	R.H. Rust R.S. Geele	7-30-09 1315

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Only 1 Liner Sent

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-116 PAGE 2 OF 2
COLLECTOR KAUER, Rust, RoSane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P DATA TURNAROUND
SAMPLING LOCATION C7466; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐ 75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS 74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A	

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-119	PAGE 1 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 PS74	ACTUAL SAMPLE DEPTH 14' to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

6 8 ℞

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
320XX2	SOIL	7-30-09	1205	✓
S09V000900	A			
S09V000901	B			
S09V000902	C			

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM Ed Kauer	7-30-09 1315	RECEIVED BY/STORED IN RJ Steele/G	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-119	PAGE 2 OF 2
COLLECTOR KAUER, RUST, ROSANNE	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 14' to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1208200900 18

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090574

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE		
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B20XX5	S09V001000	VA	8/12/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B211W5	S09V000996	VA	8/12/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW6	S09V000997	VA	8/12/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RtSteele	RtSteele		8.12.09 1100	R.D Julian			8.12.09 1100
R.D. Julian			8-12-09 1255		Joe Sears		08/12/09 1255

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-122	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauk, Rust, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	**75 Days / 75 Days**
C7466; I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.** Pg 75	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3	43.5- 45.5	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

22S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XX5	SOIL	8-3-09	0850 ✓
S09V000954	A		
S09V000955	B		
S09V000956	C		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauk / [signature]	8-3-09 1400	[signature] R B Steele	8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-122	PAGE 2 OF 2
COLLECTOR Knox, Rust, Rosame	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS75 HNF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 45.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-125	PAGE 1 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 76	ACTUAL SAMPLE DEPTH 84'-86'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 ZC090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211W3	SOIL	8-4-09	0845	✓
S09V000 963	A			
964	B			
965	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne 8-4-09	1800	RHSteele RHSteele	8.4.09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-125	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 76	ACTUAL SAMPLE DEPTH 84'-86'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids. (1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-128	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
KAUER, RUST, ROSANE	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7466; I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 (5576)	109.5 to 111.5	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225200905 74

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
211W6	SOIL	8-4-09	14:10
309U000978	A		
8/5/09 981989	B		
984	C		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [illegible]	8-4-09 1500	[illegible]	8-4-09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-128	PAGE 2 OF 2
COLLECTOR Kause, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P576 HNF-N-576-3	ACTUAL SAMPLE DEPTH 109.5 to 111.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1408 2009 0001

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090575

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE		
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.: N/A
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B211W9	S09V000998	VA	8/13/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B211X2	S09V000999	VA	8/13/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
RASteele RASteele	8.13.09 0940	KB Hulse KB Hulse	8.13.09 09.40
KB Hulse KB Hulse	8-13-09 1223	Joe Sears Joe Sears	08/13/09 1223

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-134	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; I-008	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 p77	133'-135'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

222S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211X2	SOIL	8-5-09	1352	✓
S09V000980	A			
S09V000983	B			
S09J000986	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Lenny Rosane Lenny Rosane	8-5-09/ 1500	Richard R Steele	8.5.09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-134	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-W-576-3 pg 77	ACTUAL SAMPLE DEPTH 133'-135'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-131	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg77	114'-116'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2222C090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211W9	SOIL	8-5-09	0945	✓
S09V000 979				
982				
985				

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	8-5-09 1500	R H Steele R H Steele	8-5-09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-131	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 77	ACTUAL SAMPLE DEPTH 114'-116'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1808200900 11

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090608
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B211Y3	S09V001189		8/18/09	n/a	50 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B211Y6	S09V001190		8/18/09	n/a	50 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B211Y9	S09V001191		8/18/09	n/a	50 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B215L0	S09V001072		8/18/09	n/a	500 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B215L1	S09V001073		8/18/09	n/a	500 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RJ Steele	RJ Steele		8.18.09 1040	R.D. Julian	R.D. Julian		8.18.09 1040
R.D. Julian	R.D. Julian		1310 8-18-09	Joe Sears	Joe Sears		08/18/09 1310
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-176	PAGE 1 OF 2
COLLECTOR Kaus, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. PS78 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A PCB 7/29/09		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

31°

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	~~Cool~~ 4C/Cool~ 6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B215L0	SOIL	8-10-09	1045
S09V001051			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Rowe, Ed Rowe	8-10-09 1330	R L Steele R L Steele	8-10-09 1330
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-176	PAGE 2 OF 2
COLLECTOR Kauer, Rost	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. 5578 HNF W-57L-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-177	PAGE 1 OF 2
COLLECTOR Kauer, Rost	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 PS 78	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

PCB 7/29/09

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

310

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	~~Cool~~ ~~4C~~/Cool~ 6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B215L1	SOIL	8-10-09	1045
509100 1052			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E Kauer	8-10-09 1330	R Stegle	8-10-09 1330
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-177	PAGE 2 OF 2
COLLECTOR Kasch, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P578 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-143	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauck, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 Pg 75	5' to 7'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

48

SPECIAL HANDLING AND/OR STORAGE
22252090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B211Y3 1083	SOIL	08-11-09	0840 ✓
5091V00 1083	A BAR 8/13/09		
1084	B		
1085	C		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
EE Kauck/[illegible]	8-11-09 1240	RAHSteele RASteele	8.11.09 1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-143	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. P575 HNFN-576-3	ACTUAL SAMPLE DEPTH 5' to 7'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-146	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.** PS79 HNF-N-576-3	**ACTUAL SAMPLE DEPTH** 10 to 12'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~3~~ 2 8-11-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211Y6	SOIL	8-11-09	0910	✓
SOGT00 1086				
↓ 1087				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [signature] 8-11-09	1240	[signature] / RTSkeele 8-11-09	1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Only 2 Liners Full
1 Liner Empty

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-146 PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐ DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	
ICE CHEST NO.	FIELD LOGBOOK NO. PS79 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10' to 12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A	

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-149	PAGE 1 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. 8979 HNF-N-576-3	ACTUAL SAMPLE DEPTH 14' to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

48°

SPECIAL HANDLING AND/OR STORAGE
22252C090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B211Y9	SOIL	08-11-09	0945
S09U00 1089			
1090			
1091			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/[illegible] 8-11-09	1240	[illegible] R Steele 8-11-09	1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-149	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3	ACTUAL SAMPLE DEPTH P575 14 to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine) ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA19082009 0001

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090608
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B21202	S09V001179		8/18/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B21205	S09V001180		8/18/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B21208	S09V001181		8/18/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
RtSteele	8.19.09 0900	R.D. Juliar	8.19.09 0:9:00
R.D. Sulzen	1015 8-19-09	Joe Sears	1015 8-19-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-152	PAGE 1 OF 2
COLLECTOR Kaus, Rost	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 80 HNF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 45.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

28°

SPECIAL HANDLING AND/OR STORAGE

222S20000607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21202	SOIL	8-12-09	0840	✓
S09V001131				
1135				
1139				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kaus/	8-12-09 1100	R Steele	8-12-09 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-152	PAGE 2 OF 2
COLLECTOR KAUSE, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P580 HNF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 45.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-155	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
KAUER, RUST	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-005	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P58	92' to 94'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
22252C090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21205	SOIL	8-13-09	0845	✓
S09V00 1132				
1136				
1140				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
EC Kauer / [illegible]	8-13-09 1400	R H Steele	8-13-09 1400

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-157	PAGE 2 OF 2
COLLECTOR Kaush Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. 451 HNF-N-576-3	ACTUAL SAMPLE DEPTH 92' to 94'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-158	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
KAUR, RUST	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 PG81	97' to 99'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

33°

SPECIAL HANDLING AND/OR STORAGE
222S Z0090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21208	SOIL	8-13-09	1120
509U00			1133
			1137
			1141

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kaur / [signature] 8-13-09	1400	[signature] / R J Steele	8.13.09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-158	PAGE 2 OF 2
COLLECTOR KAUER, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P581 HNF-N-576-3	ACTUAL SAMPLE DEPTH 97' to 99'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA2608200900 01

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090608
Gary Cooke/Jann Frye		Page 1 of 1

Collector: Steve McKinney	Contact/Requestor: Steve McKinney	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C Farm Vadose	Purchase Order/Charge Code	
Project Title: C Farm Vadose	Logbook/ Work Package No.: N/A	Ice Chest No.: Yes	Temp.: 2-6 degrees
Shipped To (Lab): CLS	Method of Shipment: Ground	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 days	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B21211	S09V001182		8/25/09	n/a	50 mL amber	Ethylene Glycol, MBP/DBP	COOL
B21214	S09V001227		8/25/09	n/a	50 mL amber	Ethylene Glycol, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference COntract # 21065
Release 39

Hold Time: 14 days

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Todd McCollock	8/25/09 @ 0933	R.D. Julian	8-25-09 0933
R.D. Julian	8-25-09 1540	William P. Moore	8-25-09 1540

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-161	PAGE 1 OF 2
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7468; I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 82	ACTUAL SAMPLE DEPTH: 125' - 127'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

H3°

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21211	SOIL	8-17-09	1000	✓
509U001134	A			
1138	B			
1142				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Ed Kauer/Ed Kauer	DATE/TIME: 8-17-09 1430	RECEIVED BY/STORED IN: R Steele	DATE/TIME: 8.17.09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-161	PAGE 2 OF 2
COLLECTOR Karen Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 82	ACTUAL SAMPLE DEPTH 125'-127'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-164	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-008	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P502	135 to 137	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21214	SOIL	8-17-09	1355	✓
S09V001215				
1216				
1217				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/ 8-17-09	1430	RHRiedle 8-17-09	1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-164	PAGE 2 OF 2
COLLECTOR KAUER, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. P582 HNF-N-576-3	ACTUAL SAMPLE DEPTH 135 to 137	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA06012010 0001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B236P2	S09V001642	VA	1/20/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	~~N/A~~ COO
B23KT4	S09V001657	VA	1/20/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	~~N/A~~ COO
B238H1	S09V001687	VA	1/20/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	~~N/A~~ COO

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Steele	R Steele		1-6-10 08 40	R Ellingsworth	R Ellingsworth		1-6-10 08 40
R Ellingsworth	R Ellingsworth		1-6-10 09 37	Larry D. Lockard	D Lockard		1-6-10 09 37
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA06012010001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
GARY COOKE/JANN FRYE		Page 1 of 1

Collector STEVE MCKINNEY	Contact/Requestor STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 FAX 372-1878
SAF No. V09-002	Sample Origin C FARM VADOSE	Purchase Order/Charge Code	
Project Title C FARM VADOSE	Logbook/ Work Package No. N/A	Ice Chest No. YES	Temp. 2-6 DEGREES
Shipped To (Lab) CLS	Method of Shipment GROUND	Bill of Lading/Air Bill No.	
Protocol N/A	Data Turnaround 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B236P2	S09V001642	VA	12/29/09 ~~1/20/09~~	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B23KT4	S09V001657	VA	12/29/09 ~~1/20/09~~	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B238H1	S09V001687	VA	~~1/20/09~~ 12/30/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A

COPY

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | V10-003-032 | PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7472 1004	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-~~000001~~ 003 BC 12-30-09	TFV2-09-000001	14 – 16	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238H1	SOIL	12-30-09	10:25	X
509V001682 liner (a)				
1683 liner (b)				
1684 liner (c)				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCpbell BC-pbell	12-30-09 1200	RAStecle RAStecle	12.30.09 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium 89,90 -- Sr-90;

6°C

22252009087 7

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-023

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell/Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY	☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**			
C7472 I001	WMA C Sampling for CMS		V10-003			

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFV-009-003	TFVZ-09-000001	5-7	N/A	Govt. Vehicle

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 20090877

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	BC 12-29-09 2
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B236P2	SOIL	12-29-09	09:29	X
S09V001637				
S09V001638				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12.29.09 1320	R Steele R Steele	12.29.09 1320

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

Liner 2 ~~5090~~ BC 12-29-09
50% Full
3.3 c

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-026

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I002	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFV-009-003	TFVZ-09-000001	10-12	N/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations						

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 20090877

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1 BC 12-29-09 BC
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B236P5	SOIL	12-29-09	1140	X
S09V001652				

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BCampbell	12-29-09 1320	R Steele	12-29-09 1320

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium (Plutonium-239/240, Plutonium-238) Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

3.3°C

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME	

A 6003 618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-029

COLLECTOR: Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7472 I003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV5-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 12 – 14	COA: n/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegetation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C	cool~6C
TYPE OF CONTAINER	Liner	AG
NO. OF CONTAINER(S)	3	1
VOLUME	160g	500ml
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	See item 1 in special instructions

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B236P8	SOIL	12-30-09	09:43	X	X
S09V001654	liner A				
1664	liner B				
1665	liner C				
1666	Shoe				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B C Campbell	12-30-09 12:00	[illegible]	12.30.09 1200

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

6°C

22252009087 7

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1301201000001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090877
GARY COOKE/JANN FRYE		Page 1 of 1

Collector STEVE MCKINNEY	Contact/Requestor STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 FAX 372-1878
SAF No. V09-002	Sample Origin C FARM VADOSE	Purchase Order/Charge Code	
Project Title C FARM VADOSE	Logbook/ Work Package No. N/A	Ice Chest No. YES	Temp. 2-6 DEGREES
Shipped To (Lab) CLS	Method of Shipment GROUND	Bill of Lading/Air Bill No.	
Protocol N/A	Data Turnaround 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238H4	S09V001702		1/13/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B238H7	S09V001717		1/13/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B23830	S09V001732		1/13/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.J. Stacle	R.L. Tok		1.13.10 0930	S.J. Southerland CHPRC			1.13.10 0930
S.J. Southerland CHPRC			JAN 13 2010 1025	L.D. Lockard			JAN 13 2010 1025
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA13012010 0001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090877
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238H4	S09V001702		~~1/13/10~~ 1/5/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B238H7	S09V001717		~~1/13/10~~ 1/5/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
~~B238J0~~	S09V001732		~~1/13/10~~	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B238J0			1/7/10				

COPY

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | V10-003-035 | PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I005	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFV2-09-003	TFV2-09-000001	108.5 - 110.5	n/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	n/A		n/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238H4	SOIL	1-5-10	9:42
S09V001697 Liner A			
S09V001698 Liner B			
S09V001699 Liner C			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell		R Steele R Steele	1-5-10 1415
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

1 oc

222S20090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME	

A-6003-618(01/06)

Washington River Protection Solutions | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | V10-003-038 | PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	**75 Days / 75 Days**
C7472 I006	WMA C Sampling for CMS		V10-003			
ICE CHEST NO. 1-5-10	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFVZ-009-003	TFVZ-09-000001	129-131	n/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	n/A		n/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238H7	SOIL	1-5-10	1310
S09V001712 Liner A			
S09V001713 Liner B			
S09V001714 Liner C			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	1-5-10 1415	RtRtek RtSteele/G	1-5-10 1415
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium (Plutonium-239/240, Plutonium-238) Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

1°C

222S 20090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | V10-003-041 | PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I007	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFV2-09-003	TFV2-09-000001	142 – 144	N/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	N/A		N/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238J0	SOIL	1-7-10	1010
S09V001727	Liner A		
S09V001728	Liner B		
S09V001729	Liner C		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell 1-7-10	1130	R Steele R STEELE 1-7-10	1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-10C
Temp Blank
RA

222S20090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-619(01/06)

WA 2001 20100001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
Gary Cooke/Jann Frye		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238J3	S09V001747		1/14/10	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B238J6	S09V001762		1/15/10	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
						NOTE: THE DATE LISTED IN 4TH COLUMN "DATE" IS WHEN THE 14 DAY SAMPLE	
						HOLD TIME BEGINS. iT IS THE SAMPLING DATE OF THE PARENT SAMPLE	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
T.L. Gloch	1/20/10 @ 0935	L.D. Wall CHPRC	1/20/10 0935
L.D. Wall CHPRC	1/20/10 1020	L D Lockard	1/20/10 1020

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-047

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Harris / Campbell	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I009	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFVZ-09-003	TFVZ-09-000001	195' - 197'	n/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	n/A		n/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238J6	SOIL	1-15-10	10:30
S09V001757	Liner A		
1758	LINER B		
1759	LINER C		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	1-15-10 11:30	RA Steele	1.15.10 1130

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-1°C
Temp blank

222520090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-044

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Harris / Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY	☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**			
C7472 I008	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFV2-09-003	TFV2-09-000007	158'-160'	n/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	n/A		n/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238J3	SOIL	1-14-10	10:00

S09V001742 Liner A
S09V001743 Liner B
S09V001744 Liner C

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-14-10 / 11:00	R Steele R/Steele	1-14-10 1100

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-10°C
Altech
Temp Blank

222520090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA2501201000 04

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
Gary Cooke/Jann Frye		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238K3	S10V000084		1/19/10	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
						NOTE: THE DATE LISTED IN 4TH COLUMN "DATE" IS WHEN THE 14 DAY SAMPLE	
						HOLD TIME BEGINS. iT IS THE SAMPLING DATE OF THE PARENT SAMPLE	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R Steele	1-25-10 1030	K Fatheson	1-25-10 1030
K Fatheson	1-25-10 1159	Joe Sears	1-25-10 1159

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-050	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7472 I010	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	216'-218	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238K3	SOIL	1-19-10	1010	—
S10000077	liner (a)			
78	liner (b)			
79	liner (c)			

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-19-10 11:30	RR Ricle RR Ricle	1-19-10 1130

SPECIAL INSTRUCTIONS

After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

13°C
Temp Blank
DK

22252090377

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Appendix 5

Data Validation Supporting Documentation

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

VALIDATION LEVEL:	A	B	C	D	E
PROJECT: WMA C			DATA PACKAGE: VSR10-024		
VALIDATOR: Carl Schloesslin		LAB: CLS		DATE: 9-13-2010	
			SDG: 2009-0161, -0378, -0365, -0454, -0575, -0608, -0878		
ANALYSES PERFORMED					
8015	8021	8141	8151	8315	8310
		WTPH-HCID	WTPH-G X	WTPH-D X	

SAMPLES/MATRIX: Soil samples *See below for water samples
20090161: WA210420090001-001
20090378: WA020620090002-001, WA020620090002-002
20090365: WA110620090003-001, WA110620090003-002
20090454: WA220620090005-001, WA220620090005-002, WA220620090005-003
20090575: WA110820090010-001, WA110820090010-002, WA110820090010-003, WA110820090010-004, WA110820090010-005
20090608: WA180820090011-001, WA180820090011-002, WA180820090011-003, WA180820090011-004, WA180820090011-005
20090878: WA060120100001-001, WA060120100001-002, WA060120100001-003

1. DATA PACKAGE COMPLETENESS AND CASE NARRATIVE

Technical verification documentation present? ..... Yes (No) N/A

Comments: None

2. INSTRUMENT TUNING AND CALIBRATION (Levels D and E)

Initial calibrations acceptable? ..... Yes No (N/A)

Continuing calibrations acceptable? ..... Yes No (N/A)

Standards traceable? ..... Yes No (N/A)

Standards expired? ..... Yes No (N/A)

Calculation check acceptable? ..... Yes No (N/A)

Comments:

* Water samples
20090575: WA060820090014-001, WA060820090014-002

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

3. BLANKS (Levels B, C, D, and E)

Calibration blanks analyzed? (Levels D, E) ..... Yes No N/A

Calibration blank results acceptable? (Levels D, E) ..... Yes No N/A

Laboratory blanks analyzed? ..... Yes No N/A

Laboratory blank results acceptable? ..... Yes No N/A

Field/trip blanks analyzed? (Levels C, D, E) ..... Yes No N/A

Field/trip blank results acceptable? (Levels C, D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments:

20090575: DRO MB = 35.2 mg/kg

4. ACCURACY (Levels C, D, and E)

Surrogates/system monitoring compounds analyzed? ..... Yes No N/A

Surrogate/system monitoring compound recoveries acceptable? ..... Yes No N/A

Surrogates traceable? (Levels D, E) ..... Yes No N/A

Surrogates expired? (Levels D, E) ..... Yes No N/A

MS/MSD samples analyzed? ..... Yes No N/A

MS/MSD results acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards expired? (Levels D, E) ..... Yes No N/A

LCS/BSS samples analyzed? ..... Yes No N/A

LCS/BSS results acceptable? ..... Yes No N/A

Standards traceable? (Levels D, E) ..... Yes No N/A

Standards expired? (Levels D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Performance audit sample(s) analyzed? ..... Yes No N/A

Performance audit sample results acceptable? ..... Yes No N/A

Comments:

MSDs were not performed, but LCS/LCSDs and lab duplicates were performed.

Surrogate recovery assessment was not performed due to lack of summary reporting forms in the data package. The client was notified and agreed that assessment should not be performed.

20090575: DRO LCS recovery (for soil samples) = 138%
20090575: GRO MS recovery (for water samples) = 66%
20090608: GRO MS recovery = 54%

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

5. PRECISION (Levels C, D, and E)

Duplicate RPD values acceptable? ..... Yes No N/A

Duplicate results acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards expired? (Levels D, E) ..... Yes No N/A

Field duplicate RPD values acceptable? ..... Yes No N/A

Field split RPD values acceptable? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

6. HOLDING TIMES (all levels)

Samples properly preserved? ..... Yes No N/A

Sample holding times acceptable? ..... Yes No N/A

Comments:

DRO missed holding times (sample collection to preparation time listed in days)

20090161: WA210420090001-001 (15)
20090378: WA020620090002-001 (36), WA020620090002-002 (36)
20090365: WA110620090003-001 (23), WA110620090003-002 (22)
20090575: WA110820090010-001 (20), WA110820090010-002 (20), WA110820090010-003 (20), WA110820090010-004 (20), WA110820090010-005 (20)
20090878: WA060120100001-001 (22), WA060120100001-002 (22), WA060120100001-003 (21)

GRO missed holding times (sample collection to analysis time listed in days)

20090161: WA210420090001-001 (15)
20090378: WA020620090002-001 (28), WA020620090002-002 (28)
20090365: WA110620090003-001 (15)
20090454: WA220620090005-001 (15), WA220620090005-002 (15), WA220620090005-003 (15)
20090575: WA110820090010-001 (34), WA110820090010-002 (34), WA110820090010-003 (34), WA110820090010-004 (34), WA110820090010-005 (34)
20090575: WA060820090014-001 (31), WA060820090014-002 (31)
20090608: WA180820090011-001 (27), WA180820090011-002 (27), WA180820090011-003 (27), WA180820090011-004 (28), WA180820090011-005 (28)
20090878: WA060120100001-001 (22), WA060120100001-002 (22), WA060120100001-003 (21)

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

8. COMPOUND IDENTIFICATION, QUANTITATION, AND DETECTION LIMITS (all levels)

Results reported for all requested analyses? ..... Yes No N/A

Rresults supported in the raw data? (Levels D, E) ..... Yes No N/A

Samples properly prepared? (Levels D, E) ..... Yes No N/A

Detection limits meet RDL? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

9. SAMPLE CLEANUP (Levels D and E)

Fluoricil ® (or other aborbant) cleanup performed? ..... Yes No N/A

Lot check performed? ..... Yes No N/A

Check recoveries aceptable? ..... Yes No N/A

Check materials traceable? ..... Yes No N/A

Check materials Expired? ..... Yes No N/A

Analytical batch QC given similar cleanup? ..... Yes No N/A

Transcription/Calculation Errors? ..... Yes No N/A

Comments:

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

VALIDATION LEVEL:	A	B	C	D	E
PROJECT: WMA C			DATA PACKAGE: VSR10-024		
VALIDATOR: Carl Schloesslin		LAB: CLS		DATE: 9-13-2010	
			SDG: 2009-0161, -0329, -0378, -0365, -0454, -0574, -0575, -0608, -0877, -0878		
ANALYSES PERFORMED					
8015 X*	8021	8141	8151	8315	8310
*Ethylene Glycol		WTPH-HCID	WTPH-G	WTPH-D	

SAMPLES/MATRIX: Soil samples **See below for additional samples

20090161: WA210420090001-001, WA270420090001-001, WA270420090001-002, WA070520090005-001, WA070520090005-002
20090329: WA210520090002-001, WA020620090001-001, WA020620090001-002, WA020620090001-003
20090378: WA020620090002-001, WA020620090002-002, WA110620090001-001
20090365: WA110620090002-001, WA110620090002-002, WA110620090003-001, WA110620090003-002, WA150620090004-001, WA150620090004-002
20090454: WA220620090005-001, WA220620090005-002, WA220620090005-003
20090574: WA120820090018-001, WA120820090018-002, WA120820090018-003

1. DATA PACKAGE COMPLETENESS AND CASE NARRATIVE

Technical verification documentation present? ..... Yes (No) N/A

Comments: None

2. INSTRUMENT TUNING AND CALIBRATION (Levels D and E)

Initial calibrations acceptable? ..... Yes No (N/A)

Continuing calibrations acceptable? ..... Yes No (N/A)

Standards traceable? ..... Yes No (N/A)

Standards expired? ..... Yes No (N/A)

Calculation check acceptable? ..... Yes No (N/A)

Comments:

**Additional samples
20090575: WA110820090010-001, WA110820090010-002, WA110820090010-003, WA110820090010-004, WA110820090010-005, WA140820090001-001, WA140820090001-002
20090608: WA180820090011-001, WA180820090011-002, WA180820090011-003, WA180820090011-004, WA180820090011-005, WA190820090001-001, WA190820090001-002, WA190820090001-003, WA260820090001-001, WA260820090001-002
20090877: WA130120100001-001, WA130120100001-002, WA130120100001-003
20090878: WA060120100001-001, WA060120100001-002, WA060120100001-003, WA200120100001-001, WA200120100001-002, WA250120100004-001

Water samples
20090575: WA060820090014-001, WA060820090014-002

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

3. BLANKS (Levels B, C, D, and E)

Calibration blanks analyzed? (Levels D, E) ..... Yes No N/A

Calibration blank results acceptable? (Levels D, E) ..... Yes No N/A

Laboratory blanks analyzed? ..... Yes No N/A

Laboratory blank results acceptable? ..... Yes No N/A

Field/trip blanks analyzed? (Levels C, D, E) ..... Yes No N/A

Field/trip blank results acceptable? (Levels C, D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments:

20090329/20090378: Ethylene glycol MB = 1.56 mg/kg
20090378/20090365: Ethylene glycol MB = 1.58 mg/kg

4. ACCURACY (Levels C, D, and E)

Surrogates/system monitoring compounds analyzed? ..... Yes No N/A

Surrogate/system monitoring compound recoveries acceptable? ..... Yes No N/A

Surrogates traceable? (Levels D, E) ..... Yes No N/A

Surrogates expired? (Levels D, E) ..... Yes No N/A

MS/MSD samples analyzed? ..... Yes No N/A

MS/MSD results acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards expired? (Levels D, E) ..... Yes No N/A

LCS/BSS samples analyzed? ..... Yes No N/A

LCS/BSS results acceptable? ..... Yes No N/A

Standards traceable? (Levels D, E) ..... Yes No N/A

Standards expired? (Levels D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Performance audit sample(s) analyzed? ..... Yes No N/A

Performance audit sample results acceptable? ..... Yes No N/A

Comments:

MSDs were not performed, but LCS/LCSDs and lab duplicates were performed.

Surrogate recovery assessment was not performed due to lack of summary reporting forms in the data package. The client was notified and agreed that assessment should not be performed.

20090161: Ethylene glycol LCS %R = 1.8%, LCSD %R = 1.1%, MS %R = 39%

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

5. PRECISION (Levels C, D, and E)

Duplicate RPD values acceptable? ..... Yes No N/A

Duplicate results acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards expired? (Levels D, E) ..... Yes No N/A

Field duplicate RPD values acceptable? ..... Yes No N/A

Field split RPD values acceptable? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

6. HOLDING TIMES (all levels)

Samples properly preserved? ..... Yes No N/A

Sample holding times acceptable? ..... Yes No N/A

Comments:

Ethylene glycol missed holding times (sample collection to preparation time listed in days)

20090161: WA210420090001-001 (68), WA270420090001-001 (61), WA270420090001-002 (60), WA070520090005-001 (52), WA070520090005-002 (52)
20090329: WA210520090002-001 (39), WA020620090001-001 (37), WA020620090001-002 (37), WA020620090001-003 (36)
20090378: WA020620090002-001 (29), WA020620090002-002 (29), WA110620090001-001 (18)
20090365: WA110620090002-001 (15), WA110620090002-002 (15), WA110620090003-001 (16), WA110620090003-002 (15)
20090454: WA220620090005-001 (219), WA220620090005-002 (219), WA220620090005-003 (219)
20090575: WA060820090014-001 (24), WA060820090014-002 (24)
20090878: WA060120100001-001 (20), WA060120100001-002 (19), WA060120100001-003(19)

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

8. COMPOUND IDENTIFICATION, QUANTITATION, AND DETECTION LIMITS (all levels)

Results reported for all requested analyses? ..... Yes No N/A

Rresults supported in the raw data? (Levels D, E) ..... Yes No N/A

Samples properly prepared? (Levels D, E) ..... Yes No N/A

Detection limits meet RDL? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

9. SAMPLE CLEANUP (Levels D and E)

Fluoricil ® (or other aborbant) cleanup performed? ..... Yes No N/A

Lot check performed? ..... Yes No N/A

Check recoveries aceptable? ..... Yes No N/A

Check materials traceable? ..... Yes No N/A

Check materials Expired? ..... Yes No N/A

Analytical batch QC given similar cleanup? ..... Yes No N/A

Transcription/Calculation Errors? ..... Yes No N/A

Comments:

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

VALIDATION LEVEL:	A	B	C	D	E
PROJECT: WMA C			DATA PACKAGE: VSR10-024		
VALIDATOR: Carl Schloesslin		LAB: CLS		DATE: 9-13-2010	
			SDG: 2009-0161, -0329, -0378, -0365, -0454, -0574, -0575, -0608, -0877, -0878		
ANALYSES PERFORMED					
8015	8021	8141	8151	8315	9056 Mod X*
		WTPH-HCID	WTPH-G	WTPH-D	*MBP, DBP

SAMPLES/MATRIX: Soil samples **See below for additional samples

20090161: WA210420090001-001, WA270420090001-001, WA270420090001-002, WA070520090005-001, WA070520090005-002
20090329: WA210520090002-001, WA020620090001-001, WA020620090001-002, WA020620090001-003
20090378: WA020620090002-001, WA020620090002-002, WA110620090001-001
20090365: WA110620090002-001, WA110620090002-002, WA110620090003-001, WA110620090003-002, WA150620090004-001, WA150620090004-002
20090454: WA220620090005-001, WA220620090005-002, WA220620090005-003
20090574: WA120820090018-001, WA120820090018-002, WA120820090018-003

1. DATA PACKAGE COMPLETENESS AND CASE NARRATIVE

Technical verification documentation present? ..... Yes (No) N/A

Comments: None

2. INSTRUMENT TUNING AND CALIBRATION (Levels D and E)

Initial calibrations acceptable? ..... Yes No (N/A)

Continuing calibrations acceptable? ..... Yes No (N/A)

Standards traceable? ..... Yes No (N/A)

Standards expired? ..... Yes No (N/A)

Calculation check acceptable? ..... Yes No (N/A)

Comments:

**Additional samples
20090575: WA110820090010-001, WA110820090010-002, WA110820090010-003, WA110820090010-004, WA110820090010-005, WA140820090001-001, WA140820090001-002
20090608: WA180820090011-001, WA180820090011-002, WA180820090011-003, WA180820090011-004, WA180820090011-005, WA190820090001-001, WA190820090001-002, WA190820090001-003, WA260820090001-001, WA260820090001-002
20090877: WA130120100001-001, WA130120100001-002, WA130120100001-003
20090878: WA060120100001-001, WA060120100001-002, WA060120100001-003, WA200120100001-001, WA200120100001-002, WA250120100004-001

Water samples
20090575: WA060820090014-001, WA060820090014-002

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

3. BLANKS (Levels B, C, D, and E)

Calibration blanks analyzed? (Levels D, E) ..... Yes No N/A

Calibration blank results acceptable? (Levels D, E) ..... Yes No N/A

Laboratory blanks analyzed? ..... Yes No N/A

Laboratory blank results acceptable? ..... Yes No N/A

Field/trip blanks analyzed? (Levels C, D, E) ..... Yes No N/A

Field/trip blank results acceptable? (Levels C, D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments:

None

4. ACCURACY (Levels C, D, and E)

Surrogates/system monitoring compounds analyzed? ..... Yes No N/A

Surrogate/system monitoring compound recoveries acceptable? ..... Yes No N/A

Surrogates traceable? (Levels D, E) ..... Yes No N/A

Surrogates expired? (Levels D, E) ..... Yes No N/A

MS/MSD samples analyzed? ..... Yes No N/A

MS/MSD results acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards expired? (Levels D, E) ..... Yes No N/A

LCS/BSS samples analyzed? ..... Yes No N/A

LCS/BSS results acceptable? ..... Yes No N/A

Standards traceable? (Levels D, E) ..... Yes No N/A

Standards expired? (Levels D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Performance audit sample(s) analyzed? ..... Yes No N/A

Performance audit sample results acceptable? ..... Yes No N/A

Comments:

MSDs were not performed, but LCS/LCSDs and lab duplicates were performed.

Surrogate recovery assessment was not performed due to lack of summary reporting forms in the data package. The client was notified and agreed that assessment should not be performed.

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

5. PRECISION (Levels C, D, and E)

Duplicate RPD values acceptable? ..... Yes No N/A

Duplicate results acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards expired? (Levels D, E) ..... Yes No N/A

Field duplicate RPD values acceptable? ..... Yes No N/A

Field split RPD values acceptable? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

6. HOLDING TIMES (all levels)

Samples properly preserved? ..... Yes No N/A

Sample holding times acceptable? ..... Yes No N/A

Comments:

MBP and DBP missed holding times (sample collection to preparation time listed in days)

20090161: WA210420090001-001 (314), WA270420090001-001 (307), WA270420090001-002 (306), WA070520090005-001 (298), WA070520090005-002 (298)
20090329: WA210520090002-001 (285), WA020620090001-001 (280), WA020620090001-002 (280), WA020620090001-003 (279)
20090378: WA020620090002-001 (277), WA020620090002-002 (277), WA110620090001-001 (266)
20090365: WA110620090002-001 (263), WA110620090002-002 (263), WA110620090003-001 (264), WA110620090003-002 (263) WA150620090004-001 (258), WA150620090004-002 (258)
20090454: WA220620090005-001 (252), WA220620090005-002 (252), WA220620090005-003 (252)
20090574: WA120820090018-001 (203), WA120820090018-002 (202), WA120820090018-003 (202)
20090575: WA060820090014-001 (203), WA060820090014-002 (203)
20090575: WA110820090010-001 (207), WA110820090010-002 (207), WA110820090010-003 (207), WA110820090010-004 (207), WA110820090010-005 (207), WA140820090001-001 (201), WA140820090001-002 (201)
20090608: WA180820090011-001 (195), WA180820090011-002 (195), WA180820090011-003 (195), WA180820090011-004, (196) WA180820090011-005 (196), WA190820090001-001 (194), WA190820090001-002 (193), WA190820090001-003 (193), WA260820090001-001 (189), WA260820090001-002 (189)
20090877: WA130120100001-001 (48), WA130120100001-002 (48), WA130120100001-003 (48)
20090878: WA060120100001-001 (55), WA060120100001-002 (55), WA060120100001-003 (54), WA200120100001-001 (39), WA200120100001-002 (38)

GENERAL ORGANIC ANALYSIS DATA VALIDATION CHECKLIST

8. COMPOUND IDENTIFICATION, QUANTITATION, AND DETECTION LIMITS (all levels)

Results reported for all requested analyses? ..... Yes No N/A

Rresults supported in the raw data? (Levels D, E) ..... Yes No N/A

Samples properly prepared? (Levels D, E) ..... Yes No N/A

Detection limits meet RDL? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

9. SAMPLE CLEANUP (Levels D and E)

Fluoricil ® (or other aborbant) cleanup performed? ..... Yes No N/A

Lot check performed? ..... Yes No N/A

Check recoveries aceptable? ..... Yes No N/A

Check materials traceable? ..... Yes No N/A

Check materials Expired? ..... Yes No N/A

Analytical batch QC given similar cleanup? ..... Yes No N/A

Transcription/Calculation Errors? ..... Yes No N/A

Comments:

Appendix 6

Additional Documentation Requested By Client

Diesel Range Organics

Laboratory Method: LAP 091 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-FID)

Initial Calibration Date: January 16, 2009
Sample Analysis Date: May 6, 2009
Analyst: Linda Carr

Samples Analyzed in Batch:
RJLG Sample ID: WA210420090001-001
Client Sample ID: S09V000227

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
Primer	5/6/2009	4090506A\40506_01.D							
ICV	5/6/2009	4090506A\40506_02.D	508.0	mg/L	500.00	101.60		80 -120 %	Pass
DL	5/6/2009	4090506A\40506_03.D	52.4	mg/L	50.00	104.87		60 - 140 %	Pass
LCS	5/6/2009	4090506A\40506_04.D	507.8	mg/L	500.00	101.57		70 -130 %	Pass
LCSD	5/6/2009	4090506A\40506_05.D	502.9	mg/L	500.00	100.59	0.97	70 - 130 % / RPD < 15%	Pass
LRB	5/6/2009	4090506A\40506_06.D	<RL	mg/L				<RL	Pass
MB	5/6/2009	4090506A\40506_07.D	<RL	mg/L				<RL	Pass
WA210420090001-001 MD	5/6/2009	4090506A\40506_09.D	<RL	mg/L			0.00	RPD < 15 %	Pass
WA210420090001-001 MS	5/6/2009	4090506A\40506_10.D	1254.6	mg/L	1295.00	96.88		70 -130 %	Pass
CCV	5/6/2009	4090506A\40506_11.D	511.0	mg/L	500.00	102.21		80 - 120 %	Pass
LRB	5/6/2009	4090506A\40506_12.D	< RL	mg/L				< RL	Pass

Diesel Range Organics

Laboratory Method: LAP 091 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-FID)

Initial Calibration Date: June 27, 2009
Sample Analysis Date: June 27, 2009
Analyst: Joe Sears

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA020620090002-001	S09V000635
WA020620090002-002	S09V000651
WA110620090003-001	S09V000510
WA110620090003-002	S09V000554
WA220620090005-001	S09V000761
WA220620090005-002	S09V000762
WA220620090005-003	S09V000763

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
CB	6/27/2009	4090627A\90627_01.D	<RL						
ICV	6/27/2009	4090627A\90627_08.D	522.7	mg/L	500.00	104.55		80 -120 %	Pass
CB	6/27/2009	4090627A\90627_09.D	<RL						
CCV	6/27/2009	4090627A\90627_10.D	513.4	mg/L	500.00	102.67		80 - 120 %	Pass
DL	6/27/2009	4090627A\90627_11.D	17.7	mg/L	10.00	177.17		60 - 140 %	Fail
LCS	6/27/2009	4090627A\90627_12.D	508.1	mg/L	500.00	101.62		70 -130 %	Pass
LCSD	6/27/2009	4090627A\90627_13.D	499.1	mg/L	500.00	99.82	1.79	70 - 130 % / RPD < 15%	Pass
MB	6/27/2009	4090627A\90627_14.D	<RL	mg/L				<RL	Pass
LRB	6/27/2009	4090627A\90627_15.D	<RL	mg/L				<RL	Pass
WA020620090001-001 MD	6/27/2009	4090627A\90627_17.D	70.1	mg/L			7.59	RPD < 15 %	Pass
WA020620090001-002 MS	6/27/2009	4090627A\90627_19.D	522.5	mg/L	500.00	90.30		70 -130 %	Pass
WA110620090003-002 MD	6/27/2009	4090627A\90627_22.D	<RL	mg/L			0.00	RPD < 15 %	Pass
WA110620090003-002 MS	6/27/2009	4090627A\90627_23.D	521.0	mg/L	500.00	88.75		70 -130 %	Pass
CCV	6/27/2009	4090627A\90627_24.D	570.1	mg/L	500.00	114.03		80 - 120 %	Pass
LRB	6/27/2009	4090627A\90627_25.D	15.0	mg/L				< RL	Fail
WA220620090005-001 MD	6/27/2009	4090627A\90627_27.D	115.7	mg/L			44.62	RPD < 15 %	Fail
WA220620090005-001 MS	6/28/2009	4090627A\90627_28.D	575.0	mg/L	500.00	100.28		70 -130 %	Pass
CCV	6/28/2009	4090627A\90627_31.D	588.0	mg/L	500.00	117.61		80 - 120 %	Pass
LRB	6/28/2009	4090627A\90627_32.D	15.4	mg/L				< RL	Fail

Diesel Range Organics

Laboratory Method: LAP 091 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-FID)

Initial Calibration Date: August 31, 2009
Sample Analysis Date: September 2, 2009
Analyst: Joe Sears

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA060820090014-001	S09V000937
WA060820090014-002	S09V000938
WA110820090010-001	S09V000865
WA110820090010-002	S09V000878
WA110820090010-003	S09V000906
WA110820090010-004	S09V000907
WA110820090010-005	S09V000908

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
Primer	9/2/2009	4090902A\90828_52.D	<RL						
ICV	9/2/2009	4090902A\90828_08.D	606.6	mg/L	500.00	121.33		80 -120 %	Pass
CB	9/2/2009	4090902A\90828_09.D	17.1	mg/L	<RL			<RL	
CCV	9/2/2009	4090902A\90828_10.D	512.0	mg/L	500.00	102.40		80 - 120 %	Pass
DL				mg/L				60 - 140 %	Fail
LCS	9/2/2009	4090902A\90828_20.D	691.0	mg/L	500.00	138.21		70 -130 %	Pass
LCSD	9/2/2009	4090902A\90828_21.D	521.8	mg/L	500.00	104.37	27.90	70 - 130 % / RPD < 15%	Pass
MB	9/2/2009	4090902A\90828_22.D	89.6	mg/L	<RL			<RL	Fail
WA110820090010-001 MD	9/2/2009	4090902A\90828_24.D	82.9	mg/L			8.58	RPD < 15 %	Pass
WA110820090010-001 MS	9/2/2009	4090902A\90828_25.D	507.2	mg/L	500.00	83.38		70 -130 %	Pass
CCV	9/2/2009	4090902A\90828_30.D	563.0	mg/L	500.00	112.59		80 - 120 %	Pass
LRB	9/2/2009	4090902A\90828_31.D	18.4	mg/L	<RL			< RL	Fail
LCS (liquid)	9/2/2009	4090902A\90828_32.D	509.9	mg/L	500.00	101.98		70 -130 %	Pass
LCSD (liquid)	9/2/2009	4090902A\90828_33.D	515.1	mg/L	500.00	103.02	1.02	70 - 130 % / RPD < 15%	Pass
MB	9/2/2009	4090902A\90828_34.D	20.9	mg/L	<RL			<RL	Pass
WA060820090014-002 MD	9/2/2009	4090902A\90828_37.D	20.8	mg/L			10.99	RPD < 15 %	Fail
WA060820090014-002 MS	9/2/2009	4090902A\90828_38.D	533.2	mg/L	500.00	101.98		70 -130 %	Pass
CCV	9/2/2009	4090902A\90828_39.D	538.7	mg/L	500.00	107.74		80 - 120 %	Pass
LRB	9/2/2009	4090902A\90828_40.D	18.4	mg/L	<RL			< RL	Fail

Diesel Range Organics

Laboratory Method: LAP 091 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-FID)

Initial Calibration Date: August 31,2009
Sample Analysis Date: August 31,2009
Analyst: Joe Sears

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA180820090011-001	S09V001189
WA180820090011-002	S09V001190
WA180820090011-003	S09V001191
WA180820090011-004	S09V001072
WA180820090011-005	S09V001073

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
CB	8/31/2009	4090831A\90828_01.D	<RL	mg/L				< RL	
ICV	8/31/2009	4090831A\90828_08.D	482.2	mg/L	500.00	96.45		80 -120 %	Pass
CB	8/31/2009	4090831A\90828_09.D	<RL	mg/L				< RL	
CCV	8/31/2009	4090831A\90828_10.D	472.3	mg/L	500.00	94.46		80 - 120 %	Pass
DL	8/31/2009	4090831A\90828_11.D	16.3	mg/L	10.00	163.22		60 - 140 %	Fail
CCV	8/31/2009	4090831A\90828_30.D	525.2	mg/L	500.00	105.04		80 - 120 %	Pass
LRB	8/31/2009	4090831A\90828_31.D	<RL	mg/L				< RL	Pass
LCS	8/31/2009	4090831A\90828_32.D	551.6	mg/L	500.00	110.32		70 -130 %	Pass
LCSD	8/31/2009	4090831A\90828_33.D	551.3	mg/L	500.00	110.26	0.05	70 - 130 % / RPD < 15%	Pass
MB	8/31/2009	4090831A\90828_34.D	24.0	mg/L				<RL	Fail
WA180820090011-005 MD	8/31/2009	4090831A\90828_40.D	52.3	mg/L			2.63	RPD < 15 %	Pass
WA180820090011-005 MS	8/31/2009	4090831A\90828_41.D	561.7	mg/L	500.00	101.60		70 -130 %	Pass
CCV	8/31/2009	4090831A\90828_24.D	497.8	mg/L	500.00	99.57		80 - 120 %	Pass
LRB	8/31/2009	4090831A\90828_25.D	<RL	mg/L				< RL	Pass

Diesel Range Organics

Laboratory Method: LAP 091 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-FID)

Initial Calibration Date: January 19, 2010
Sample Analysis Date: January 20, 2010
Analyst: Linda Carr

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA060120100001-001	S09V001642
WA060120100001-002	S09V001657
WA060120100001-003	S09V001687

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
ICV	1/20/2010	4100120A\10120_11.D	504.9	mg/L	500.00	100.98		80 -120 %	Pass
CB	1/20/2010	4100120A\10120_12.D	<RL	mg/L				<RL	Pass
DL	1/20/2010	4100120A\10120_13.D	67.7	mg/L	50.00	135.34		60 - 140 %	Pass
MB	1/20/2010	4100120A\10120_14.D	<RL	mg/L				<RL	Pass
LCS	1/20/2010	4100120A\10120_15.D	486.2	mg/L	500.00	97.24		80 - 120 %	Pass
LCSD	1/20/2010	4100120A\10120_16.D	482.8	mg/L	500.00	96.56	0.71	70 - 130 % / RPD < 15%	Pass
WA060120100001-002 MD	1/20/2010	4100120A\10120_19.D	<RL	mg/L			0.00	RPD < 15 %	Pass
WA060120100001-002 MS	1/20/2010	4100120A\10120_20.D	504.9	mg/L	500.00	100.98		70 -130 %	Pass
CCV	1/20/2010	4100120A\10120_22.D	471.4	mg/L	500.00	94.29		80 - 120 %	Pass
LRB	1/20/2010	4100120A\10120_23.D	<RL	mg/L				< RL	Pass

GASOLINE RANGE ORGANICS

LABORATORY METHOD: LAP 015 Rev 03

ANALYTICAL METHOD: EPA 8015 (Modified - Analysis performed by GC-MS)

Initial Calibration Performed: April 09, 2009
Sample Analysis Performed: April 29, 2009
Analyst: Rosa Carrera Rodriquez

Samples Analyzed in Batch:

CLS LOG Number	Customer Identification
WA210420090001-001	S09V000227

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery / RPD	Acceptance Criteria	Comments
ICV				mg/L			80 - 120 %	Not Analyzed-Qualify
BFB	4/29/2009	2090429A\090429_3.D					Method Specific	Pass
LRB	4/29/2009	2090429A\090429_3.D	< RL	mg/L			< RL	Pass
CCV	4/29/2009	2090429A\090429_4.D	0.93	mg/L	1.00	93.00	80 - 120 %	Pass
LCS	4/29/2009	2090429A\090429_5.D	1.06	mg/L	1.00	106.00	70 -130 %	Pass
LCSD	4/29/2009	2090429A\090429_6.D	1.06	mg/L	1.00	106 % / RPD = 0.0 %	70 - 130 % / RPD < 15%	Pass
DL	4/29/2009	2090429A\090429_7.D	0.12	mg/L	0.10	120.00	60 - 140 %	Pass
LRB	4/29/2009	2090429A\090429_8.D	< RL	mg/L			< RL	Pass
Initial DOC -1	4/29/2009	2090429A\090429_9.D	0.93	mg/L	1.00	93.00	80 - 120 %	Pass
Initial DOC -2	4/29/2009	2090429A\090429_10.D	1.00	mg/L	1.00	100.00	80 - 120 %	Pass
Initial DOC -3	4/29/2009	2090429A\090429_11.D	1.08	mg/L	1.00	108.00	80 - 120 %	Pass
Initial DOC -4	4/29/2009	2090429A\090429_12.D	1.09	mg/L	1.00	109.00	80 - 120 %	Pass
LRB	4/29/2009	2090429A\090429_13.D	< RL	mg/L			< RL	Pass
WA210420090001-001 MD	4/29/2009	2090429A\090429_15.D	0.25	mg/L		RPD = 43.8 %	RPD < 15 %	FAIL
WA210420090001-001 MS	4/29/2009	2090429A\090429_16.D	1.02	mg/L	1.00	102.00	70 - 130 %	Pass
CCV	4/29/2009	2090429A\090429_17.D	4-Jan	mg/L	1.00	104.00	80 - 120 %	Pass
LRB	4/29/2009	2090429A\090429_18.D	< RL	mg/L			< RL	Pass

GASOLINE RANGE ORGANICS

LABORATORY METHOD: LAP 015 Rev 03

ANALYTICAL METHOD: EPA 8015 (Modified - Analysis performed by GC-MS)

Initial Calibration Performed: June 17, 2009
Sample Analysis Performed: June 18, 2009
Analyst: Rosa Carrera Rodriquez

Samples Analyzed in Batch:

CLS LOG Number	Customer Identification
WA110620090003-001	S09V000510
WA110620090003-002	S09V000554
WA020620090002-001	S09V000635
WA020620090002-002	S09V000651

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery / RPD	Acceptance Criteria	Comments
ICV	6/17/2009	2090617a\90617_14.D	0.89	mg/L	1.00	89.00	80 -120 %	Pass
BFB	6/18/2009	2090618a\90618_02.D					Method Specific	Pass
LRB	6/18/2009	2090618a\90618_02.D	< RL	mg/L			< RL	Pass
LCS	6/18/2009	2090618a\90618_03.D	1.16	mg/L	1.00	116.00	70 -130 %	Pass
CCV	6/18/2009	2090618a\90618_04.D	0.96	mg/L	1.00	96.00	80 - 120 %	Pass
LCS	6/18/2009	2090618a\90618_05.D	0.96	mg/L	1.00	96.00	70 - 130 %	Pass
LCSD	6/18/2009	2090618a\90618_06.D	0.91	mg/L	1.00	91 % / RPD = 5.4 %	70 - 130 % / RPD < 15%	Pass
DL	6/18/2009	2090618a\90618_07.D	0.10	mg/L	0.10	100.00	60 - 140 %	Pass
LRB	6/18/2009	2090618a\90618_08.D	< RL	mg/L			< RL	Pass
WA110620090003-002 MD	6/18/2009	2090618a\90618_11.D	< RL	mg/L	<RL	RPD = 0 %	RPD < 15 %	Pass
WA110620090003-002 MS	6/18/2009	2090618a\90618_12.D	0.85	mg/L	1.00	85.00	70 - 130 %	Pass
WA020620090002-002 MD	6/18/2009	2090618a\90618_15.D	< RL	mg/L			< RL	Pass
WA020620090002-002 MS	6/18/2009	2090618a\90618_16.D	0.81	mg/L	1.00	81.00	70 - 130 %	Pass
DL	6/18/2009	2090618a\90618_17.D	0.11	mg/L	0.10	110.00	60 - 140 %	Pass
CCV	6/18/2009	2090618a\90618_18.D	0.99	mg/L	1.00	99.00	80 - 120 %	Pass
LRB	6/18/2009	2090618a\90618_19.D	< RL	mg/L			< RL	Pass

GASOLINE RANGE ORGANICS

LABORATORY METHOD: LAP 015 Rev 03

ANALYTICAL METHOD: EPA 8015 (Modified - Analysis performed by GC-MS)

Initial Calibration Performed: June 29, 2009
Sample Analysis Performed: June 30, 2009
Analyst: Rosa Carrera Rodriquez

Samples Analyzed in Batch:

CLS LOG Number	Customer Identification
WA220620090005-001	S09V000761
WA220620090005-002	S09V000762
WA220620090005-003	S09V000763

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery / RPD	Acceptance Criteria	Comments
ICV	6/29/2009	2090629A\90629_11.D	0.95	mg/L	1.00	95.00	80 -120 %	Pass
BFB	6/30/2009	2090630A\90630_01.D					Method Specific	Pass
LRB	6/30/2009	2090630A\90630_01.D	< RL	mg/L			< RL	Pass
CCV	6/30/2009	2090630A\90630_02.D	1.01	mg/L	1.00	101.00	80 - 120 %	Pass
LCS	6/30/2009	2090630A\90630_03.D	0.95	mg/L	1.00	95.00	70 - 130 %	Pass
LCSD	6/30/2009	2090630A\90630_04.D	0.95	mg/L	1.00	95 % / RPD = 0 %	70 - 130 % / RPD < 15%	Pass
DL	6/30/2009	2090630A\90630_05.D	0.20	mg/L	0.10	200.00	60 - 140 %	FAIL
LRB	6/30/2009	2090630A\90630_06.D	< RL	mg/L			< RL	Pass
DL	6/30/2009	2090630A\90630_07.D	0.12	mg/L	0.10	120.00	60 - 140 %	Pass
WA220620090005-001 MD	6/30/2009	2090630A\90630_09.D	< RL	mg/L	<RL	RPD = 0 %	RPD < 15 %	Pass
WA220620090005-001 MS	6/30/2009	2090630A\90630_10.D	0.79	mg/L	1.00	79.00	70 - 130 %	Pass
CCV	6/30/2009	2090630A\90630_15.D	0.72	mg/L	1.00	72.00	80 - 120 %	FAIL
LRB	6/30/2009	2090630A\90630_16.D	< RL	mg/L			< RL	Pass

Surrogate Recovery Failures: WA220620090005-001, WA220620090005-001 MD, WA220620090005-001 MS, WA220620090005-002, WA220620090005-003, ending CCV and LRB were outside of the limits

GASOLINE RANGE ORGANICS

LABORATORY METHOD: LAP 015 Rev 03

ANALYTICAL METHOD: EPA 8015 (Modified - Analysis performed by GC-MS)

Initial Calibration Performed: 09/02/2009-09/03/2009
Sample Analysis Performed: 09/03/2009-09/04/2009
Analyst: Rosa Carrera Rodriquez

Samples Analyzed in Batch:

CLS LOG Number	Customer Identification
WA060820090014-001	S09V000937
WA060820090014-002	S09V000938

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery / RPD	Acceptance Criteria	Comments
ICV	9/3/2009	6090902B\6090902_10.D	0.916	mg/L	1.00	91.60	80 -120 %	Pass
BFB	9/3/2009						Method Specific	Pass
CCV	9/3/2009	6090902B\6090902_12.D	0.930	mg/L	1.00	93.00	80 - 120 %	Pass
MDL 1	9/3/2009	6090902B\6090902_13.D	0.160	mg/L	0.10	160.00	80 - 120 %	FAIL
MDL 2	9/3/2009	6090902B\6090902_14.D	0.140	mg/L	0.10	140.00	80 - 120 %	Pass
MDL 3	9/3/2009	6090902B\6090902_15.D	0.110	mg/L	0.10	110.00	80 - 120 %	Pass
CCV	9/3/2009	6090902B\6090902_16.D	1.070	mg/L	1.00	107.00	80 - 120 %	Pass
MDL 4	9/3/2009	6090902B\6090902_17.D	0.120	mg/L	0.10	120.00	80 - 120 %	Pass
MDL 5	9/3/2009	6090902B\6090902_18.D	0.110	mg/L	0.10	110.00	80 - 120 %	Pass
MDL 6	9/3/2009	6090902B\6090902_19.D	0.100	mg/L	0.10	100.00	80 - 120 %	Pass
MDL 7	9/3/2009	6090902B\6090902_20.D	0.110	mg/L	0.10	110.00	80 - 120 %	Pass
VOA-072009-B	9/3/2009	6090902B\6090902_21.D	< RL	mg/L			< RL	Pass
CCV	9/3/2009	6090902B\6090902_22.D	0.963	mg/L	1.00	96.30	80 - 120 %	Pass
DL	9/3/2009	6090902B\6090902_23.D	0.110	mg/L	0.10	110.00	60 - 140 %	Pass
LCS	9/3/2009	6090902B\6090902_24.D	1.000	mg/L	1.00	100.00	70 - 130 %	Pass
LCSD	9/3/2009	6090902B\6090902_25.D	1.050	mg/L	1.00	105 % / RPD = 4.9 %	70 - 130 % / RPD < 15%	Pass
LRB	9/3/2009	6090902B\6090902_26.D	< RL	mg/L			< RL	Pass
WA060820090014-002 MD	9/3/2009	6090902B\6090902_29.D	< RL	mg/L	<RL	RPD = 0 %	RPD < 15 %	Pass
WA060820090014-002 MS	9/3/2009	6090902B\6090902_30.D	0.660	mg/L	1.00	66.00	70 - 130 %	FAIL
CCV	9/3/2009	6090902B\6090902_31.D	0.807	mg/L	1.00	80.70	80 - 120 %	Pass
LRB	9/3/2009	6090902B\6090902_32.D	< RL	mg/L			< RL	Pass

Surrogate Recovery Failures: WA060820090014-002 MD

GASOLINE RANGE ORGANICS

LABORATORY METHOD: LAP 015 Rev 03

ANALYTICAL METHOD: EPA 8015 (Modified - Analysis performed by GC-MS)

Initial Calibration Performed: September 5, 2009
Sample Analysis Performed: 09/06/2009-09/07/2009
Analyst: Rosa Carrera Rodriquez

Samples Analyzed in Batch:

CLS LOG Number	Customer Identification
WA110820090010-001	S09V000865
WA110820090010-002	S09V000878
WA110820090010-003	S09V000906
WA110820090010-004	S09V000907
WA110820090010-005	S09V000908
WA180820090011-001	S09V001189
WA180820090011-002	S09V001190
WA180820090011-003	S09V001191
WA180820090011-004	S09V001072

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery / RPD	Acceptance Criteria	Comments
ICV	9/5/2009	6090905A\6090905_10.D	0.920	mg/L	1.00	92.00	80 -120 %	Pass
BFB	9/5/2009	6090905A\6090905_11.D					Method Specific	Pass
CCV	9/6/2009	6090906A\6090906_02.D	0.900	mg/L	1.00	90.00	80 - 120 %	Pass
DL	9/6/2009	6090906A\6090906_03.D	0.110	mg/L	0.10	110.00	60 - 140 %	Pass
LCS	9/6/2009	6090906A\6090906_04.D	0.960	mg/L	1.00	96.00	70 - 130 %	Pass
LCSD	9/6/2009	6090906A\6090906_05.D	0.990	mg/L	1.00	99 % / RPD = 3.1 %	70 - 130 % / RPD < 15%	Pass
MB	9/6/2009	6090906A\6090906_06.D	< RL	mg/L			< RL	Pass
LCS-1	9/6/2009	6090906A\6090906_07.D	0.870	mg/L	1.00	87.00	70 - 130 %	Pass
LCSD-1	9/6/2009	6090906A\6090906_08.D	0.910	mg/L	1.00	91 % / RPD = 4.5 %	70 - 130 % / RPD < 15%	Pass
GRO MB	9/6/2009	6090906A\6090906_09.D	< RL	mg/L			< RL	Pass
LRB	9/6/2009	6090906A\6090906_10.D	< RL	mg/L			< RL	Pass
WA110820090010-001 MD	9/6/2009	6090906A\6090906_12.D	< RL	mg/L	<RL	RPD = 0 %	RPD < 15 %	Pass
WA110820090010-001 MS	9/6/2009	6090906A\6090906_13.D	0.77	mg/L	1.00	77.00	70 - 130 %	Pass
LRB	9/7/2009	6090906A\6090906_18.D	< RL	mg/L			< RL	Pass
*CCV	9/7/2009	6090906A\6090906_19.D	0.720	mg/L	1.00	72.00	80 - 120 %	FAIL
*DL	9/7/2009	6090906A\6090906_20.D	0.100	mg/L	0.10	100.00	60 - 140 %	Pass
*GRO LCS-2	9/7/2009	6090906A\6090906_21.D	0.830	mg/L	1.00	83.00	70 - 130 %	Pass

GASOLINE RANGE ORGANICS

LABORATORY METHOD: LAP 015 Rev 03

ANALYTICAL METHOD: EPA 8015 (Modified - Analysis performed by GC-MS)

Initial Calibration Performed: September 5, 2009
Sample Analysis Performed: 09/06/2009-09/07/2009
Analyst: Rosa Carrera Rodriquez

Samples Analyzed in Batch:

CLS LOG Number	Customer Identification
WA110820090010-001	S09V000865
WA110820090010-002	S09V000878
WA110820090010-003	S09V000906
WA110820090010-004	S09V000907
WA110820090010-005	S09V000908
WA180820090011-001	S09V001189
WA180820090011-002	S09V001190
WA180820090011-003	S09V001191
WA180820090011-004	S09V001072

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery / RPD	Acceptance Criteria	Comments
*GRO LCSDUP-2	9/7/2009	6090906A\6090906_22.D	0.780	mg/L	1.00	78 % / RPD = 6.2 %	70 - 130 % / RPD < 15%	Pass
*GRO MB	9/7/2009	6090906A\6090906_23.D	< RL	mg/L			< RL	Pass
*LRB	9/7/2009	6090906A\6090906_24.D	< RL	mg/L			< RL	Pass
*WA180820090011-004 MD	9/7/2009	6090906A\6090906_27.D	< RL	mg/L	<RL	RPD = 0 %	RPD < 15 %	Pass
*WA180820090011-004 MS	9/7/2009	6090906A\6090906_26.D	0.54	mg/L	1.00	54.00	70 - 130 %	FAIL
*CCV	9/7/2009	6090906A\6090906_32.D	0.610	mg/L	1.00	61.00	80 - 120 %	FAIL
*LRB	9/7/2009	6090906A\6090906_33.D	< RL	mg/L			< RL	Pass
BFB	9/7/2009	6090906A\6090906_33.D					Method Specific	Pass

* CCV failure on all subsequent samples

Surrogate Recovery Failures: WA110820090010-001, WA110820090010-001DUP, WA110820090010-002, WA110820090010-003, WA110820090010-004 WA110820090010-005, GRO LCS-2, GRO LCSD-2, GRO MB-2, LRB, WA180820090011-004, WA180820090011-004 MD WA180820090011-004 MS, WA180820090011-005, WA180820090011-001, WA180820090011-002, WA180820090011-003 ending CCV and LRB

GASOLINE RANGE ORGANICS

LABORATORY METHOD: LAP 015 Rev 03

ANALYTICAL METHOD: EPA 8015 (Modified - Analysis performed by GC-MS)

Initial Calibration Performed: January 18,2010
Sample Analysis Performed: January 20,2010
Analyst: Jonathan Kon

Samples Analyzed in Batch:

CLS LOG Number	Customer Identification
WA06012010100001-001	
WA06012010100001-002	
WA06012010100001-003	

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery / RPD	Acceptance Criteria	Comments
BFB	1/20/2010	6100120A\6100120_01.D					Method Specific	Pass
LRB	1/20/2010	6100120A\6100120_01.D	< RL	mg/L			< RL	Pass
ICV	1/20/2010	6100120A\6100120_03.D	1.01	mg/L	1.00	101.00	80 -120 %	Pass
CCV	1/20/2010	6100120A\6100120_04.D	1.04	mg/L	1.00	104.00	80 - 120 %	Pass
LCS	1/20/2010	6100120A\6100120_03.D	1.11	mg/L	1.00	111.00	70 -130 %	Pass
LCSD	1/20/2010	6100120A\6100120_03.D	1.06	mg/L	1.00	106 % / RPD = 4.6 %	70 - 130 % / RPD < 15%	Pass
DL	1/20/2010	6100120A\6100120_03.D	0.13	mg/L	0.10	130.00	60 - 140 %	Pass
LRB	1/20/2010	6100120A\6100120_03.D	< RL	mg/L			< RL	Pass
WA06012010100001-002 MD	1/20/2010	6100120A\6100120_03.D	< RL	mg/L	<RL	RPD = 0 %	RPD < 15 %	Pass
WA06012010100001-002 MS	1/20/2010	6100120A\6100120_03.D	0.92	mg/L	1.00	92.00	70 - 130 %	Pass
CCV	1/20/2010	6100120A\6100120_03.D	0.89	mg/L	1.00	89.00	80 - 120 %	Pass
LRB	1/20/2010	6100120A\6100120_03.D	< RL	mg/L			< RL	Pass

Ethylene Glycol

Laboratory Method: LAP 130 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-MS)

Initial Calibration Date: June 5, 2009
Sample Analysis Date: June 22, 2009
Analyst: Joe Sears

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA210420090001-001	S09V000227
WA270420090001-001	S09V000228
WA270420090001-002	S09V000229
WA070520090005-001	S09V000230
WA070520090005-002	S09V000231

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
CB	6/22/2009	9090622A\90622_01.D	<RL	mg/L				<RL	Pass
SSVS	6/22/2009	9090622A\90622_02.D	28.1	mg/L	25.00	112.32		80 -120 %	Pass
CV	6/22/2009	9090622A\90622_03.D	26.1	mg/L	25.00	104.20		80 -120 %	Pass
DL	6/22/2009	9090622A\90622_04.D	2.1	mg/L	0.25	820.00		60 - 140 %	Fail
LCS	6/22/2009	9090622A\90622_05.D	0.2	mg/L	10.00	1.80		70 -130 %	Fail
LCSD	6/22/2009	9090622A\90622_06.D	0.1	mg/L	10.00	1.10	48.28	70 - 130 % / RPD < 15%	Fail/Fail
MB	6/22/2009	9090622A\90622_07.D	<RL	mg/L				<RL	Pass
LRB	6/22/2009	9090622A\90622_08.D	<RL	mg/L				<RL	Pass
WA270420090001-001 MD	6/22/2009	9090622A\90622_11.D	0.2	mg/L			0.00	RPD < 15 %	Pass
WA270420090001-002 MS	6/22/2009	9090622A\90622_13.D	4.1	mg/L	10.00	38.60		70 -130 %	Fail
LCS	6/22/2009	9090622A\90622_16.D	7.1	mg/L	10.00	70.50		70 -130 %	Pass
LCSD	6/22/2009	9090622A\90622_17.D	7.7	mg/L	10.00	76.50	8.16	70 - 130 % / RPD < 15%	Pass
CCV	6/22/2009	9090622A\90622_18.D	25.6	mg/L	25.00	102.36		80 - 120 %	Pass
LRB	6/22/2009	9090622A\90622_19.D	0.4	mg/L				< RL	Fail

Surrogate Failure: No surrogate was added to Initial CB and SSVS

Ethylene Glycol

Laboratory Method: LAP 130 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-MS)

Initial Calibration Date: June 19, 2009
Sample Analysis Date: June 20, 2009
Analyst: Joe Sears

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA020620090001-001	S09V000458
WA020620090001-002	S09V000459
WA020620090001-003	S09V000460
WA020620090002-001	S09V000635
WA020620090002-002	S09V000651

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
CB	6/20/2009	9090620A\90619_01.D	<RL	mg/L				<RL	Pass
SSVS	6/20/2009	9090620A\90619_02.D	24.4	mg/L	25.00	97.40		80 -120 %	Pass
CV	6/20/2009	9090620A\90619_03.D	24.6	mg/L	25.00	98.52		80 -120 %	Pass
DL	6/20/2009	9090620A\90619_04.D	1.9	mg/L	0.25	776.00		60 - 140 %	Fail
LCS	6/20/2009	9090620A\90619_05.D	9.5	mg/L	10.00	95.40		70 -130 %	Pass
LCSD	6/20/2009	9090620A\90619_06.D	10.3	mg/L	10.00	103.00	7.66	70 - 130 % / RPD < 15%	Pass/Pass
MB	6/20/2009	9090620A\90619_07.D	0.9	mg/L				<RL	Fail
LRB	6/20/2009	9090620A\90619_08.D	0.3	mg/L				<RL	Fail
WA020620090002-002 MD	6/20/2009	9090620A\90619_10.D	9.5	mg/L			181.18	RPD < 15 %	Fail
WA020620090002-002 MS	6/20/2009	9090620A\90619_11.D	10.5	mg/L	10.00	99.80		70 -130 %	Pass
CCV	6/20/2009	9090620A\90619_16.D	24.5	mg/L	25.00	97.88		80 - 120 %	Pass
LRB	6/20/2009	9090620A\90619_17.D	0.4	mg/L				< RL	Fail

Ethylene Glycol

Laboratory Method: LAP 130 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-MS)

Initial Calibration Date: June 5, 2009
Sample Analysis Date: June 21, 2009
Analyst: Joe Sears

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA110620090001-001	S09V000667
WA110620090002-001	S09V000570
WA110620090002-002	S09V000586
WA110620090003-001	S09V000510
WA110620090003-002	S09V000554
WA150620090004-001	S09V000602
WA150620090004-002	S09V000618

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
BFB	6/21/2009								Fail
CB	6/21/2009	9090621A\90621_01.D	<RL	mg/L				<RL	Pass
SSVS	6/21/2009	9090621A\90621_02.D	27.0	mg/L	25.00	107.80		80 -120 %	Pass
CV	6/21/2009	9090621A\90621_03.D	26.6	mg/L	25.00	106.24		80 -120 %	Pass
DL	6/21/2009	9090621A\90621_04.D	2.0	mg/L	0.25	816.00		60 - 140 %	Fail
LCS	6/21/2009	9090621A\90621_05.D	9.9	mg/L	10.00	98.60		70 -130 %	Pass
LCSD	6/21/2009	9090621A\90621_06.D	10.5	mg/L	10.00	105.10	6.38	70 - 130 % / RPD < 15%	Pass/Pass
MB	6/21/2009	9090621A\90621_07.D	1.0	mg/L				<RL	Fail
LRB	6/21/2009	9090621A\90621_8.D	0.3	mg/L				< RL	Fail
WA110620090003-002 MD	6/21/2009	9090621A\90621_11.D	<RL	mg/L				RPD < 15 %	Pass
WA110620090003-002 MS	6/21/2009	9090621A\90621_12.D	9.3	mg/L	10.00	92.70		70 -130 %	Pass
CCV	6/21/2009	9090621A\90621_15.D	27.1	mg/L	25.00	108.20		80 - 120 %	Pass
LRB	6/21/2009	9090621A\90621_16.D	0.4	mg/L				< RL	Fail
LCS	6/21/2009	9090621A\90621_17.D	10.7	mg/L	10.00	106.80		70 -130 %	Pass
LCSD	6/21/2009	9090621A\90621_18.D	11.1	mg/L	10.00	110.60	3.50	70 - 130 % / RPD < 15%	Pass/Pass
MB	6/21/2009	9090621A\90621_19.D	1.0	mg/L				<RL	Fail
LRB	6/21/2009	9090621A\90621_20.D	0.3	mg/L				< RL	Fail
WA150620090004-001 MD	6/21/2009	9090621A\90621_23.D	<RL	mg/L				RPD < 15 %	Pass
WA150620090004-001 MS	6/21/2009	9090621A\90621_24.D	9.7	mg/L	10.00	97.20		70 -130 %	Pass
CCV	6/21/2009	9090621A\90621_26.D	25.0	mg/L	25.00	100.08		80 - 120 %	Pass
LRB	6/21/2009	9090621A\90621_27.D	0.4	mg/L				< RL	Fail
CCV	6/21/2009	9090621A\90621_39.D	27.1	mg/L	10.00	271.40		80 - 120 %	Pass
LRB	6/21/2009	9090621A\90621_40.D	0.4	mg/L				< RL	Fail

Surrogate Failure: No Surrogate added to CB and ICV

Ethylene Glycol

Laboratory Method: LAP 130 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-MS)

Initial Calibration Date: September 1, 2009
Sample Analysis Date: September 1, 2009
Analyst: Joe Sears

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA210520090002-001	S09V000457
WA060820090014-001	S09V000937
WA060820090014-002	S09V000938
WA110820090010-001	S09V000865
WA110820090010-002	S09V000878
WA110820090010-003	S09V000906
WA110820090010-004	S09V000907
WA110820090010-005	S09V000908

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
CB	9/1/2009	9090901B\90901_01.D	<RL	mg/L				<RL	Pass
ICV	9/1/2009	9090901B\90901_02.D	9.3	mg/L	10.00	93.00		80 -120 %	Pass
CV	9/1/2009	9090901B\90901_03.D	11.0	mg/L	10.00	110.20		80 -120 %	Pass
DL	9/1/2009	9090901B\90901_04.D	0.2	mg/L	0.20	105.00		60 - 140 %	
LCS (liquid)	9/1/2009	9090901B\90901_05.D	10.0	mg/L	10.00	100.20		70 -130 %	Pass
LCSD (liquid)	9/1/2009	9090901B\90901_06.D	11.1	mg/L	10.00	110.90	10.14	70 - 130 % / RPD < 15%	Pass/Pass
MB	9/1/2009	9090901B\90901_07.D	<RL	mg/L				<RL	Pass
CCV	9/1/2009	9090901B\90901_18.D	10.4	mg/L	10.00	103.60		80 - 120 %	Pass
LRB	9/1/2009	9090901B\90901_19.D	<RL	mg/L				< RL	Pass
MB	9/1/2009	9090901B\90901_21.D	<RL	mg/L				<RL	Pass
WA060820090014-001 MD	9/1/2009	9090901B\90901_23.D	<RL	mg/L				RPD < 15 %	Pass
WA060820090014-001 MS	9/1/2009	9090901B\90901_24.D	10.1	mg/L	10.00	101.20		70 -130 %	Pass
CCV	9/1/2009	9090901B\90901_26.D	10.8	mg/L	10.00	108.40		80 - 120 %	Pass
LRB	9/1/2009	9090901B\90901_27.D	<RL	mg/L				< RL	Pass
LCS (soil)	9/1/2009	9090901B\90901_28.D	10.1	mg/L	10.00	101.10		70 -130 %	Pass
LCSD (soil)	9/1/2009	9090901B\90901_29.D	10.4	mg/L	10.00	104.40	3.21	70 - 130 % / RPD < 15%	Pass/Pass
MB	9/1/2009	9090901B\90901_30.D	<RL	mg/L				<RL	Pass
WA210520090002-001 MD	9/2/2009	9090901B\90901_32.D	<RL	mg/L				RPD < 15 %	Pass
WA210520090002-001 MS	9/2/2009	9090901B\90901_33.D	9.8	mg/L	10.00	98.10		70 -130 %	Pass
CCV	9/2/2009	9090901B\90901_34.D	11.2	mg/L	10.00	112.20		80 - 120 %	Pass
LRB	9/2/2009	9090901B\90901_35.D	<RL	mg/L				< RL	Pass
LCS	9/2/2009	9090901B\90901_36.D	9.9	mg/L	10.00	98.50		70 -130 %	Pass
LCSD	9/2/2009	9090901B\90901_37.D	9.4	mg/L	10.00	93.60	5.10	70 - 130 % / RPD < 15%	Pass/Pass
MB	9/2/2009	9090901B\90901_38.D	<RL	mg/L				<RL	Pass
WA110820090010-001 MD	9/2/2009	9090901B\90901_40.D	<RL	mg/L				RPD < 15 %	Pass
WA110820090010-001 MS	9/2/2009	9090901B\90901_41.D	8.8	mg/L	10.00	88.30		70 -130 %	Pass
CCV	9/2/2009	9090901B\90901_46.D	10.8	mg/L	10.00	107.50		80 - 120 %	Pass
LRB	9/2/2009	9090901B\90901_47.D	<RL	mg/L				< RL	Pass

Surrogate Failure: No Surrogate added to CB and ICV
Internal Standard Failure: No Internal Standard in DL

Ethylene Glycol

Laboratory Method: LAP 130 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-MS)

Initial Calibration Date: September 3, 2009
Sample Analysis Date: September 3, 2009
Analyst: Joe Sears

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA120820090018-001	S09V001000
WA120820090018-002	S09V000996
WA120820090018-003	S09V000997
WA180820090011-001	S09V001189
WA180820090011-002	S09V001190
WA180820090011-003	S09V001191
WA180820090011-004	S09V001072
WA180820090011-005	S09V001073
WA140820090001-001	S09V000998
WA140820090001-002	S09V000999
WA190820090001-001	S09V001179
WA190820090001-002	S09V001180
WA190820090001-003	S09V001181

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
BFB	9/3/2009								Fail
CB	9/3/2009	9090903B\90903_01.D	<RL	mg/L				<RL	Pass
ICV	9/3/2009	9090903B\90903_02.D	10.0	mg/L	10.00	99.90		80 -120 %	Pass
CV	9/3/2009	9090903B\90903_03.D	10.3	mg/L	10.00	102.70		80 -120 %	Pass
DL	9/3/2009	9090903B\90903_04.D	0.0	mg/L	0.20	0.00		60 - 140 %	Fail
LCS	9/3/2009	9090903B\90903_05.D	9.7	mg/L	10.00	97.30		70 -130 %	Pass
LCSD	9/3/2009	9090903B\90903_06.D	9.5	mg/L	10.00	95.40	1.97	70 - 130 % / RPD < 15%	Pass/Pass
MB	9/3/2009	9090903B\90903_07.D	<RL	mg/L				<RL	Pass
WA120820090018-003 MD	9/3/2009	9090903B\90903_10.D	<RL	mg/L				RPD < 15 %	Pass
WA120820090018-003 MS	9/3/2009	9090903B\90903_11.D	9.8	mg/L	10.00	98.40		70 -130 %	Pass
CCV	9/3/2009	9090903B\90903_13.D	10.5	mg/L	10.00	105.00		80 - 120 %	Pass
LRB	9/3/2009	9090903B\90903_14.D	<RL	mg/L				< RL	Pass
LCS	9/3/2009	9090903B\90903_15.D	9.5	mg/L	10.00	95.10		70 -130 %	Pass
LCSD	9/3/2009	9090903B\90903_16.D	10.0	mg/L	10.00	99.70	4.72	70 - 130 % / RPD < 15%	Pass/Pass
LRB	9/3/2009	9090903B\90903_17.D	<RL	mg/L				< RL	Pass
WA180820090011-002 MD	9/3/2009	9090903B\90903_20.D	<RL	mg/L				RPD < 15 %	Pass
WA180820090011-002 MS	9/3/2009	9090903B\90903_21.D	9.2	mg/L	10.00	92.20		70 -130 %	Pass
CCV	9/4/2009	9090903B\90903_25.D	10.3	mg/L	10.00	103.10		80 - 120 %	Pass
LRB	9/4/2009	9090903B\90903_26.D	<RL	mg/L				< RL	Pass
LCS	9/4/2009	9090903B\90903_27.D	9.6	mg/L	10.00	95.90		70 -130 %	Pass
LCSD	9/4/2009	9090903B\90903_28.D	9.0	mg/L	10.00	90.20	6.13	70 - 130 % / RPD < 15%	Pass/Pass
DL	9/4/2009	9090903B\90903_29.D	0.0	mg/L	0.25	0.00		60 - 140 %	Fail
MB	9/4/2009	9090903B\90903_30.D	<RL	mg/L				<RL	Pass
WA140820090001-002 MS	9/4/2009	9090903B\90903_33.D	8.5	mg/L	10.00	85.00		70 -130 %	Pass
WA140820090001-002 MD	9/4/2009	9090903B\90903_34.D	<RL	mg/L				RPD < 15 %	Pass
CCV	9/4/2009	9090903B\90903_35.D	10.1	mg/L	10.00	100.90		80 - 120 %	Pass
LRB	9/4/2009	9090903B\90903_36.D	<RL	mg/L				< RL	Pass
LCS	9/4/2009	9090903B\90903_37.D	9.7	mg/L	10.00	97.40		70 -130 %	Pass
LCSD	9/4/2009	9090903B\90903_38.D	9.8	mg/L	10.00	97.90	0.51	70 - 130 % / RPD < 15%	Pass/Pass
DL	9/4/2009	9090903B\90903_39.D	0.0	mg/L	0.25	0.00		60 - 140 %	Fail
MB	9/4/2009	9090903B\90903_40.D	<RL	mg/L				<RL	Pass
WA190820090001-001 MD	9/4/2009	9090903B\90903_42.D	<RL	mg/L				RPD < 15 %	Pass
WA190820090001-001 MS	9/4/2009	9090903B\90903_43.D	8.5	mg/L	10.00	85.20		70 -130 %	Pass
CCV	9/4/2009	9090903B\90903_46.D	9.0	mg/L	10.00	90.00		80 - 120 %	Pass
LRB	9/4/2009	9090903B\90903_47.D	<RL	mg/L				< RL	Pass

Surrogate Failure: No Surrogate added to CB and ICV
Internal Standard Failure: No Internal Standard in DL

Ethylene Glycol

Laboratory Method: LAP 130 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-MS)

Initial Calibration Date: September 6, 2009
Sample Analysis Date: September 7, 2009
Analyst: Joe Sears

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA260820090001-001	S09V001182
WA260820090001-002	S09V001227

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
BFB	9/6/2009								Fail
CB	9/7/2009	9090906B\90906_01.D	<RL	mg/L				<RL	Pass
ICV	9/7/2009	9090906B\90906_02.D	8.5	mg/L	10.00	84.70		80 -120 %	Pass
CV	9/7/2009	9090906B\90906_03.D	10.5	mg/L	10.00	105.10		80 -120 %	Pass
DL	9/7/2009	9090906B\90906_04.D	0.0	mg/L	0.20	0.00		60 - 140 %	Fail
LCS	9/7/2009	9090906B\90906_05.D	9.8	mg/L	10.00	98.30		70 -130 %	Pass
LCSD	9/7/2009	9090906B\90906_06.D	10.9	mg/L	10.00	109.20	10.51	70 - 130 % / RPD < 15%	Pass/Pass
DL	9/7/2009	9090906B\90906_07.D	0.0	mg/L	0.20	0.00		60 - 140 %	Fail
MB	9/7/2009	9090906B\90906_08.D	<RL	mg/L				<RL	Pass
WA260820090001-002 MD	9/7/2009	9090906B\90906_11.D	<RL	mg/L				RPD < 15 %	Pass
WA260820090001-002 MS	9/7/2009	9090906B\90906_12.D	9.9	mg/L	10.00	98.90		70 -130 %	Pass
CCV	9/7/2009	9090906B\90906_13.D	10.4	mg/L	10.00	104.00		80 - 120 %	Pass
LRB	9/7/2009	9090906B\90906_14.D	<RL	mg/L				< RL	Pass

Surrogate Failure: No surrogate added to the initial CB and ICV
Internal Standard Failure: No internal standard in the DL

Ethylene Glycol

Laboratory Method: LAP 130 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-MS)

Initial Calibration Date: January 18, 2010
Sample Analysis Date: January 18, 2010
Analyst: Erin Stewart

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA060120100001-001	S09V001642
WA060120100001-002	S09V001657
WA060120100001-003	S09V001687
WA130120100001-001	S09V001702
WA130120100001-002	S09V001717
WA130120100001-003	S09V001732

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
BFB	1/18/2010								Fail
CB	1/18/2010	9100118A\90118_03.D	<RL	mg/L				<RL	Pass
ICV	1/18/2010	9100118A\90118_12.D	10.5	mg/L	10.00	104.80		80 -120 %	Pass
CV	1/18/2010	9100118A\90118_13.D	9.9	mg/L	10.00	98.60		80 -120 %	Pass
DL	1/18/2010	9100118A\90118_14.D	0.3	mg/L	0.20	125.00		60 - 140 %	Pass
MB	1/18/2010	9100118A\90118_15.D	<RL	mg/L				<RL	Pass
LCS	1/18/2010	9100118A\90118_16.D	9.1	mg/L	10.00	90.60		70 -130 %	Pass
LCSD	1/18/2010	9100118A\90118_17.D	8.6	mg/L	10.00	85.50	5.79	70 - 130 % / RPD < 15%	Pass/Pass
WA060120100001-002 MD	1/18/2010	9100118A\90118_20.D	<RL	mg/L				RPD < 15 %	Pass
WA060120100001-002 MS	1/18/2010	9100118A\90118_21.D	7.7	mg/L	10.00	76.60		70 -130 %	Pass
WA130120100001-002 MD	1/19/2010	9100118A\90118_25.D	<RL	mg/L				RPD < 15 %	Pass
WA130120100001-002 MS	1/19/2010	9100118A\90118_26.D	8.4	mg/L	10.00	84.00		70 -130 %	Pass
CCV	1/19/2010	9100118A\90118_28.D	8.6	mg/L	10.00	85.90		80 - 120 %	Pass
LRB	1/19/2010	9100118A\90118_29.D	<RL	mg/L				< RL	Pass
MB	1/19/2010	9100118A\90118_30.D	<RL	mg/L				<RL	Pass
LCS	1/19/2010	9100118A\90118_31.D	9.4	mg/L	10.00	93.50		70 -130 %	Pass
LCSD	1/19/2010	9100118A\90118_32.D	9.3	mg/L	10.00	93.10	0.43	70 - 130 % / RPD < 15%	Pass/Pass
CCV	1/19/2010	9100118A\90118_38.D	8.7	mg/L	10.00	86.60		80 - 120 %	Pass
LRB	1/19/2010	9100118A\90118_39.D	<RL	mg/L				< RL	Pass

Ethylene Glycol

Laboratory Method: LAP 130 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-MS)

Initial Calibration Date: January 20, 2010
Sample Analysis Date: 01/20/2010-01/21/2010
Analyst: Erin Stewart

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA220620090005-001	S09V000761
WA220620090005-002	S09V000762
WA220620090005-003	S09V000763
WA200120100001-001	S09V001747
WA200120100001-002	S09V001762

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
BFB	1/20/2010	9100120A\90120 02.D							Fail
CB	1/20/2010	9100120A\90120 02.D	<RL	mg/L				<RL	Pass
ICV	1/20/2010	9100120A\90120 11.D	10.02	mg/L	10.00	100.20		80 -120 %	Pass
CV	1/20/2010	9100120A\90120 12.D	9.33	mg/L	10.00	93.30		80 -120 %	Pass
DL	1/20/2010	9100120A\90120 13.D	0.19	mg/L	0.20	95.00		60 - 140 %	Pass
MB	1/20/2010	9100120A\90120 14.D	<RL	mg/L				<RL	Pass
LCS	1/20/2010	9100120A\90120 15.D	8.02	mg/L	10.00	80.20		70 -130 %	Pass
LCSD	1/20/2010	9100120A\90120 16.D	8.04	mg/L	10.00	80.40	0.25	70 - 130 % / RPD < 15%	Pass/Pass
WA250120100004-001 MD	1/21/2010	9100120A\90120 21.D	<RL	mg/L				RPD < 15 %	Pass
WA250120100004-001 MS	1/21/2010	9100120A\90120 22.D	8.42	mg/L	10.00	84.20		70 -130 %	Pass
CCV	1/21/2010	9100120A\90120 24.D	8.55	mg/L	10.00	85.50		80 - 120 %	Pass
LRB	1/21/2010	9100120A\90120 25.D	<RL	mg/L				< RL	Pass

Ethylene Glycol

Laboratory Method: LAP 130 Rev 00

Analytical Method: EPA 8015 (Modified-Analysis performed via GC-MS)

Initial Calibration Date: January 27, 2010
Sample Analysis Date: January 27, 2010
Analyst: Erin Stewart

Samples Analyzed in Batch:

RJLG Sample ID:	Client Sample ID:
WA250120100004-001	S10V000084

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery	RPD	Acceptance Criteria	Comments
BFB	1/27/2010	9100127C\90127 02.D							Fail
CB	1/27/2010	9100127C\90127 02.D	<RL	mg/L				<RL	Pass
ICV	1/27/2010	9100127C\90127 11.D	8.15	mg/L	10.00	81.50		80 -120 %	Pass
CV	1/27/2010	9100127C\90127 12.D	8.04	mg/L	10.00	80.40		80 -120 %	Pass
DL	1/27/2010	9100127C\90127 13.D	0.16	mg/L	0.20	80.00		60 - 140 %	Pass
MB	1/27/2010	9100127C\90127 14.D	<RL	mg/L				<RL	Pass
LCS	1/27/2010	9100127C\90127 15.D	8.07	mg/L	10.00	80.70		70 -130 %	Pass
LCSD	1/27/2010	9100127C\90127 16.D	8.24	mg/L	10.00	82.40	2.08	70 - 130 % / RPD < 15%	Pass/Pass
WA250120100004-001 MD	1/27/2010	9100127C\90127 18.D	<RL	mg/L				RPD < 15 %	Pass
WA250120100004-001 MS	1/27/2010	9100127C\90127 19.D	8.16	mg/L	10.00	81.60		70 -130 %	Pass
CCV	1/27/2010	9100127C\90127 20.D	8.06	mg/L	10.00	80.60		80 - 120 %	Pass
LRB	1/27/2010	9100127C\90127 21.D	<RL	mg/L				< RL	Pass

RJ LEE GROUP

COVER PAGE - MISCELLANEOUS CLASSICAL ANALYSIS DATA PACKAGE

010003

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO # 100202-8 SRR # 39222 SDG No.: 412857

Field Sample ID#	Lab Sample ID#
WA250120100004-001	412857
WA250120100004-001D	412857D
WA250120100004-001S	412857S

COMMENTS:
SEE CASE NARRATIVE.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hard copy data package and also in any associated computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: RSpies Name: Radonna Spies

Date: 03/01/10 Title: Group Leader

RJ LEE GROUP
BLANKS

010006

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-8 SRR # 39222 SDG No.: 412857

Preparation Blank Concentration Units (mg/L or mg/kg): mg/kg

ANALYTE	UNITS	ICB	C	CCB							
				1	C	2	C	3	C	PB	C
Dibutyl Phosphate	mg/L	0.115	U	0.115	U					1.15	U
Monobutyl Phosphate	mg/L	0.0846	U	0.0846	U					0.846	U

CB = initial calibration blank; CCB = continuing calibration blank; PB = preparation blank; C = concentration qualifier code

RJ LEE GROUP
MATRIX SPIKE SAMPLE

010007

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-8 SRR # 39222 SDG No.: 412857

Matrix: Soil

Field Sample ID # WA250120100004-001 Lab Sample ID # 412857S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	31.9		1.15	U	28.7	111%	
Monobutyl Phosphate	mg/kg	18.0		0.845	U	21.0	85.7%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP
DUPLICATE SAMPLE

010008

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-8 SRR # 39222 SDG No.: 412857

Matrix: Soil

Field Sample ID # WA250120100004-001 Lab Sample ID # 412857D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	1.15	U	1.14	U	0.00%	
Monobutyl Phosphate	mg/kg	0.845	U	0.836	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

RJ LEE GROUP
LABORATORY CONTROL SAMPLE

010009

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-8 SRR# 39222 SDG No.: 412857

LCS Matrix: Soil LCS Source: 174-02-IC7

ANALYTE	UNITS	TRUE	FOUND	C	CONTROL LIMITS LOW	HIGH	%R
Dibutyl Phosphate	mg/kg	57.7	60.2				104%
Monobutyl Phosphate	mg/kg	42.3	41.4				97.9%

C = concentration qualifier code

FORM # 8

RJ LEE GROUP
METHOD DETECTION LIMITS

010010

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-8 SRR# 39222 SDG No.: 412857

ANALYTE	ANALYTICAL DESCRIPTION		INSTRUMENT ID#	UNITS	Reporting Limit
	METHOD	TECHNIQUE			
Dibutyl Phosphate	9056 M	IC	Dionex 4500 (white)	mg/kg	1.15
Monobutyl Phosphate	9056 M	IC	Dionex 4500 (white)	mg/kg	0.846

D # = identification number; MDL = method detection limit

COMMENTS:

RJ LEE GROUP

COVER PAGE - MISCELLANEOUS CLASSICAL ANALYSIS DATA PACKAGE

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO # 100202-7 SRR # 39222 SDG No.: 412820

010003

Field Sample ID#	Lab Sample ID#
WA060820090014-001	412820
WA060820090014-002	412821
WA060820090014-002D	412821D
WA060820090014-002S	412821S

COMMENTS:
SEE CASE NARRATIVE.

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Signature: RSpies Name: Radonna Spies

Date: 03/01/10 Title: Group Leader

RJ LEE GROUP

BLANKS

010010

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-7 SRR # 39222 SDG No.: 412820

Preparation Blank Concentration Units (mg/L or mg/kg): mg/L

ANALYTE	UNITS	ICB	C	CCB							
				1	C	2	C	3	C	PB	C
Dibutyl Phosphate	mg/L	0.115	U	0.115	U	0.115	U	0.115	U	0.115	U
Monobutyl Phosphate	mg/L	0.0846	U	0.0846	U	0.0846	U	0.0846	U	0.0846	U

ICB = initial calibration blank; CCB = continuing calibration blank; PB = preparation blank; C = concentration qualifier code

RJ LEE GROUP

BLANKS

010011

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-7 SRR # 39222 SDG No.: 412820

Preparation Blank Concentration Units (mg/L or mg/kg): _____

ANALYTE	UNITS	ICB	C	CCB							
				1	C	2	C	3	C	PB	C
Dibutyl Phosphate	mg/L			0.115	U	0.115	U	0.115	U		
Monobutyl Phosphate	mg/L			0.0846	U	0.0846	U	0.0846	U		

ICB = initial calibration blank; CCB = continuing calibration blank; PB = preparation blank; C = concentration qualifier code

RJ LEE GROUP

BLANKS

010012

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-7 SRR # 39222 SDG No.: 412820

Preparation Blank Concentration Units (mg/L or mg/kg): _____

ANALYTE	UNITS	ICB	C	CCB							
				1	C	2	C	3	C	PB	C
Dibutyl Phosphate	mg/L			0.115	U	0.115	U				
Monobutyl Phosphate	mg/L			0.0846	U	0.0846	U				

ICB = initial calibration blank; CCB = continuing calibration blank; PB = preparation blank; C = concentration qualifier code

RJ LEE GROUP

MATRIX SPIKE SAMPLE

010013

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-7 SRR # 39222 SDG No.: 412820

Matrix: Water

Field Sample ID # WA060820090014-002 Lab Sample ID # 412821S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/L	2.99		0.115	U	2.89	104%	
Monobutyl Phosphate	mg/L	1.86		0.0846	U	2.12	87.7%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP

DUPLICATE SAMPLE

010014

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-7 SRR # 39222 SDG No.: 412820

Matrix: Water

Field Sample ID # WA060820090014-002 Lab Sample ID # 412821D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/L	0.115	U	0.115	U	0.00%	
Monobutyl Phosphate	mg/L	0.0846	U	0.0846	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code

Q = data qualifier code

FORM # 7

RJ LEE GROUP

LABORATORY CONTROL SAMPLE

010015

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-7 SRR# 39222 SDG No.: 412820

LCS Matrix: Water LCS Source: 176-01-IC7

ANALYTE	UNITS	TRUE	FOUND	C	CONTROL LIMITS LOW	HIGH	%R
Dibutyl Phosphate	mg/L	5.77	6.20				108%
Monobutyl Phosphate	mg/L	4.23	4.35				103%

C = concentration qualifier code

RJ LEE GROUP
METHOD DETECTION LIMITS

010016

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-7 SRR# 39222 SDG No.: 412820

ANALYTE	ANALYTICAL DESCRIPTION		INSTRUMENT ID#	UNITS	Reporting Limit
	METHOD	TECHNIQUE			
Dibutyl Phosphate	9056 M	IC	Dionex 4500 (white)	mg/L	0.115
Monobutyl Phosphate	9056 M	IC	Dionex 4500 (white)	mg/L	0.0846

ID # = identification number; MDL = method detection limit

COMMENTS:

FORM # 10

RJ LEE GROUP

COVER PAGE - MISCELLANEOUS CLASSICAL ANALYSIS DATA PACKAGE 010003

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO # 100202-6 SRR # 39222 SDG No.: 412854

Field Sample ID#	Lab Sample ID#
WA220620090005-001	412854
WA220620090005-001D	412854D
WA220620090005-001S	412854S
WA220620090005-002	412855
WA220620090005-003	412856
WA260820090001-001	412858
WA260820090001-001D	412858D
WA260820090001-001S	412858S
WA260820090001-002	412859
WA270420090001-001	412860
WA270420090001-002	412861
WA070520090005-001	412862
WA070520090005-002	412863
WA070520090005-002D	412863D
WA070520090005-002S	412863S

COMMENTS:
SEE CASE NARRATIVE.

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Signature: Name: Radonna Spies
Date: 03/01/10 Title: Group Leader

RJ LEE GROUP
BLANKS

010017

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-6 SRR # 39222 SDG No.: 412854

Preparation Blank Concentration Units (mg/L or mg/kg): mg/kg

ANALYTE	UNITS	ICB	C	CCB 1	C	2	C	3	C	PB	C
Dibutyl Phosphate	mg/L	0.115	U	0.115	U	0.115	U	0.115	U	0.839	U
Monobutyl Phosphate	mg/L	0.0846	U	0.0846	U	0.0846	U	0.0846	U	0.615	U

ICB = initial calibration blank; CCB = continuing calibration blank; PB = preparation blank; C = concentration qualifier code

RJ LEE GROUP
BLANKS

010018

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-6 SRR # 39222 SDG No.: 412854

Preparation Blank Concentration Units (mg/L or mg/kg): _____

ANALYTE	UNITS	ICB	C	CCB 1	C	2	C	3	C	PB	C
Dibutyl Phosphate	mg/L			0.115	U	0.115	U	0.115	U		
Monobutyl Phosphate	mg/L			0.0846	U	0.0846	U	0.0846	U		

ICB = initial calibration blank; CCB = continuing calibration blank; PB = preparation blank; C = concentration qualifier code

RJ LEE GROUP
BLANKS

010019

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-6 SRR # 39222 SDG No.: 412854

Preparation Blank Concentration Units (mg/L or mg/kg): _____

ANALYTE	UNITS	ICB	C	CCB							
				1	C	2	C	3	C	PB	C
Dibutyl Phosphate	mg/L			0.115	U						
Monobutyl Phosphate	mg/L			0.0846	U						

ICB = initial calibration blank; CCB = continuing calibration blank; PB = preparation blank; C = concentration qualifier code

RJ LEE GROUP
MATRIX SPIKE SAMPLE

010020

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-6 SRR # 39222 SDG No.: 412854

Matrix: Soil

Field Sample ID # WA220620090005-001 Lab Sample ID # 412854S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	21.6		0.806	U	20.6	105%	
Monobutyl Phosphate	mg/kg	12.1		0.591	U	15.1	80.1%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

010021

RJ LEE GROUP
MATRIX SPIKE SAMPLE

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-6 SRR # 39222 SDG No.: 412854

Matrix: Soil

Field Sample ID # WA260820090001-001 Lab Sample ID # 412858S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	22.5		0.771	U	21.3	106%	
Monobutyl Phosphate	mg/kg	12.3		0.565	U	15.6	78.8%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP
MATRIX SPIKE SAMPLE

010022

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-6 SRR # 39222 SDG No.: 412854

Matrix: Soil

Field Sample ID # WA070520090005-002 Lab Sample ID # 412863S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	19.5		0.807	U	19.2	102%	
Monobutyl Phosphate	mg/kg	11.3		0.592	U	14.1	80.1%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

RJ LEE GROUP
DUPLICATE SAMPLE

010023

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-6 SRR # 39222 SDG No.: 412854

Matrix: Soil

Field Sample ID # WA220620090005-001 Lab Sample ID # 412854D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.806	U	0.768	U	0.00%	
Monobutyl Phosphate	mg/kg	0.591	U	0.563	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

FORM # 7

RJ LEE GROUP
DUPLICATE SAMPLE

010024

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-6 SRR # 39222 SDG No.: 412854

Matrix: Soil

Field Sample ID # WA260820090001-001 Lab Sample ID # 412858D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.771	U	0.817	U	0.00%	
Monobutyl Phosphate	mg/kg	0.565	U	0.599	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

RJ LEE GROUP
DUPLICATE SAMPLE

010025

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-6 SRR # 39222 SDG No.: 412854

Matrix: Soil

Field Sample ID # WA070520090005-002 Lab Sample ID # 412863D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.807	U	0.802	U	0.00%	
Monobutyl Phosphate	mg/kg	0.592	U	0.588	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

RJ LEE GROUP
LABORATORY CONTROL SAMPLE

010026

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-6 SRR# 39222 SDG No.: 412854

LCS Matrix: Soil LCS Source: 174-02-IC7

ANALYTE	UNITS	TRUE	FOUND	C	CONTROL LIMITS LOW	HIGH	%R
Dibutyl Phosphate	mg/kg	42.0	44.5				106%
Monobutyl Phosphate	mg/kg	30.8	31.0				101%

C = concentration qualifier code

RJ LEE GROUP
METHOD DETECTION LIMITS

010027

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-6 SRR# 39222 SDG No.: 412854

ANALYTE	ANALYTICAL DESCRIPTION		INSTRUMENT ID#	UNITS	Reporting Limit
	METHOD	TECHNIQUE			
Dibutyl Phosphate	9056 M	IC	Dionex 4500 (white)	mg/kg	0.839
Monobutyl Phosphate	9056 M	IC	Dionex 4500 (white)	mg/kg	0.615

ID # = identification number; MDL = method detection limit

COMMENTS:

FORM # 10

RJ LEE GROUP

010003

COVER PAGE - MISCELLANEOUS CLASSICAL ANALYSIS DATA PACKAGE

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO # 100202-5 SRR # 39222 SDG No.: 412842

Field Sample ID#	Lab Sample ID#
WA120820090018-003	412834
WA130120100001-001	412835
WA130120100001-001D	412835D
WA130120100001-001S	412835S
WA130120100001-002	412836
WA130120100001-003	412837
WA140820090001-001	412838
WA140820090001-001D	412838D
WA140820090001-001S	412838S
WA140820090001-002	412839
WA150620090004-001	412840
WA150620090004-002	412841
WA150620090004-002D	412841D
WA150620090004-002S	412841S
WA180820090011-001	412842
WA180820090011-002	412843
WA180820090011-003	412844
WA180820090011-004	412845

COMMENTS:
SEE CASE NARRATIVE.

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Signature: Name: Radonna Spies
Date: 03/01/10 Title: Group Leader

RJ LEE GROUP

010004

COVER PAGE - MISCELLANEOUS CLASSICAL ANALYSIS DATA PACKAGE

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO # 100202-5 SRR # 39222 SDG No.: 412842

Field Sample ID#	Lab Sample ID#
WA180820090011-005	412846
WA180820090011-005D	412846D
WA180820090011-005S	412846S
WA190820090001-001	412847
WA190820090001-002	412848
WA190820090001-002D	412848D
WA190820090001-002S	412848S
WA190820090001-003	412849
WA200120100001-001	412850
WA200120100001-002	412851
WA200120100001-002D	412851D
WA200120100001-002S	412851S
WA210420090001-001	412852
WA210420090001-001D	412852D
WA210420090001-001S	412852S
WA210520090002-001	412853
WA210520090002-001D	412853D
WA210520090002-001S	412853S

COMMENTS:
SEE CASE NARRATIVE.

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Signature: RSpies Name: Radonna Spies
Date: 03/01/10 Title: Group Leader

RJ LEE GROUP
BLANKS

010028

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Preparation Blank Concentration Units (mg/L or mg/kg): mg/kg

ANALYTE	UNITS	ICB	C	CCB							
				1	C	2	C	3	C	PB	C
Dibutyl Phosphate	mg/L	0.115	U	0.115	U	0.115	U	0.115	U	0.839	U
Monobutyl Phosphate	mg/L	0.0846	U	0.0846	U	0.0846	U	0.0846	U	0.615	U

ICB = initial calibration blank; CCB = continuing calibration blank; PB = preparation blank; C = concentration qualifier code

RJ LEE GROUP
BLANKS

010029

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 415842

Preparation Blank Concentration Units (mg/L or mg/kg): _____

ANALYTE	UNITS	ICB	C	CCB							
				1	C	2	C	3	C	PB	C
Dibutyl Phosphate	mg/L			0.115	U	0.115	U				
Monobutyl Phosphate	mg/L			0.0846	U	0.0846	U				

ICB = initial calibration blank; CCB = continuing calibration blank; PB = preparation blank; C = concentration qualifier code

RJ LEE GROUP
MATRIX SPIKE SAMPLE

010030

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA130120100001-001 Lab Sample ID # 412835S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	20.8		0.806	U	19.9	105%	
Monobutyl Phosphate	mg/kg	11.7		0.591	U	14.6	80.1%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP
MATRIX SPIKE SAMPLE

010031

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA140820090001-001 Lab Sample ID # 412838S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	20.9		0.849	U	20.3	103%	
Monobutyl Phosphate	mg/kg	12.1		0.622	U	14.8	81.8%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP
MATRIX SPIKE SAMPLE

010032

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA150620090004-002 Lab Sample ID # 412841S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	22.0		0.824	U	20.9	105%	
Monobutyl Phosphate	mg/kg	12.2		0.604	U	15.3	79.7%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP
MATRIX SPIKE SAMPLE

010033

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA180820090011-005 Lab Sample ID # 412846S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	21.8		0.799	U	20.9	104%	
Monobutyl Phosphate	mg/kg	12.2		0.586	U	15.3	79.7%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

010034

RJ LEE GROUP
MATRIX SPIKE SAMPLE

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA190820090001-002 Lab Sample ID # 412848S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	21.1		0.802	U	20.3	104%	
Monobutyl Phosphate	mg/kg	12.2		0.588	U	14.9	81.9%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

RJ LEE GROUP
MATRIX SPIKE SAMPLE

010035

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA200120100001-002 Lab Sample ID # 412851S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	22.2		0.791	U	21.1	105%	
Monobutyl Phosphate	mg/kg	12.4		0.580	U	15.4	80.5%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP
MATRIX SPIKE SAMPLE

010036

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA210420090001-001 Lab Sample ID # 412852S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	21.7		0.769	U	20.7	105%	
Monobutyl Phosphate	mg/kg	11.6		0.564	U	15.1	76.8%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP
MATRIX SPIKE SAMPLE

010037

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA210520090002-001 Lab Sample ID # 412853S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	21.6		0.820	U	20.3	106%	
Monobutyl Phosphate	mg/kg	11.8		0.601	U	14.9	79.2%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP
DUPLICATE SAMPLE

010038

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA130120100001-001 Lab Sample ID # 412835D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.806	U	0.793	U	0.00%	
Monobutyl Phosphate	mg/kg	0.591	U	0.582	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

FORM # 7

RJ LEE GROUP
DUPLICATE SAMPLE

010039

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA140820090001-001 Lab Sample ID # 412838D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.849	U	0.835	U	0.00%	
Monobutyl Phosphate	mg/kg	0.622	U	0.612	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

FORM # 7

RJ LEE GROUP
DUPLICATE SAMPLE

010040

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA150620090004-002 Lab Sample ID # 412841D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.824	U	0.790	U	0.00%	
Monobutyl Phosphate	mg/kg	0.604	U	0.579	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

RJ LEE GROUP
DUPLICATE SAMPLE

010041

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA180820090011-005 Lab Sample ID # 412846D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.799	U	0.797	U	0.00%	
Monobutyl Phosphate	mg/kg	0.586	U	0.584	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

FORM # 7

010042

RJ LEE GROUP
DUPLICATE SAMPLE

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA190820090001-002 Lab Sample ID # 412848D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.802	U	0.816	U	0.00%	
Monobutyl Phosphate	mg/kg	0.588	U	0.598	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

FORM # 7

RJ LEE GROUP
DUPLICATE SAMPLE

010043

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA200120100001-002 Lab Sample ID # 412851D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.791	U	0.881	U	0.00%	
Monobutyl Phosphate	mg/kg	0.580	U	0.646	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

RJ LEE GROUP
DUPLICATE SAMPLE

010044

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA210420090001-001 Lab Sample ID # 412852D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.769	U	0.811	U	0.00%	
Monobutyl Phosphate	mg/kg	0.564	U	0.595	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

FORM # 7

RJ LEE GROUP
DUPLICATE SAMPLE

010045

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR # 39222 SDG No.: 412842

Matrix: Soil

Field Sample ID # WA210520090002-001 Lab Sample ID # 412853D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.820	U	0.805	U	0.00%	
Monobutyl Phosphate	mg/kg	0.601	U	0.590	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

FORM # 7

RJ LEE GROUP
LABORATORY CONTROL SAMPLE

010046

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR# 39222 SDG No.: 412842

LCS Matrix: Soil LCS Source: 174-02-IC7

ANALYTE	UNITS	TRUE	FOUND	C	CONTROL LIMITS LOW	HIGH	%R
Dibutyl Phosphate	mg/kg	42.0	44.6				106%
Monobutyl Phosphate	mg/kg	30.8	30.4				98.7%

C = concentration qualifier code

RJ LEE GROUP
METHOD DETECTION LIMITS

010047

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-5 SRR# 39222 SDG No.: 412842

ANALYTE	ANALYTICAL DESCRIPTION		INSTRUMENT ID#	UNITS	Reporting Limit
	METHOD	TECHNIQUE			
Dibutyl Phosphate	9056 M	IC	Dionex 4500 (white)	mg/kg	0.839
Monobutyl Phosphate	9056 M	IC	Dionex 4500 (white)	mg/kg	0.615

ID # = identification number; MDL = method detection limit

COMMENTS:

FORM # 10

RJ LEE GROUP

COVER PAGE - MISCELLANEOUS CLASSICAL ANALYSIS DATA PACKAGE 010003

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO # 100202-4 SRR # 39222 SDG No.: 412818

Field Sample ID#	Lab Sample ID#
WA020620090001-001	412812
WA020620090001-002	412813
WA020620090001-003	412814
WA020620090002-001	412815
WA020620090002-002	412816
WA020620090002-002D	412816D
WA020620090002-002S	412816S
WA060120100001-001	412817
WA060120100001-002	412818
WA060120100001-002D	412818D
WA060120100001-002S	412818S
WA060120100001-003	412819
WA110620090001-001	412822
WA110620090002-001	412823
WA110620090002-002	412824
WA110620090003-001	412825
WA110620090003-002	412826
WA110620090003-002D	412826D
WA110620090003-002S	412826S

COMMENTS:
SEE CASE NARRATIVE.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hard copy data package and also in any associated computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: R Spies Name: Radonna Spies
Date: 03/01/10 Title: Group Leader

RJ LEE GROUP

COVER PAGE - MISCELLANEOUS CLASSICAL ANALYSIS DATA PACKAGE 010004

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO # 100202-4 SRR # 39222 SDG No.: 412818

Field Sample ID#	Lab Sample ID#
WA110820090010-001	412827
WA110820090010-001D	412827D
WA110820090010-001S	412827S
WA110820090010-002	412828
WA110820090010-003	412829
WA110820090010-004	412830
WA110820090010-005	412831
WA120820090018-001	412832
WA120820090018-001D	412832D
WA120820090018-001S	412832S
WA120820090018-002	412833

COMMENTS:
SEE CASE NARRATIVE.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hard copy data package and also in any associated computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: RSpies Name: Radonna Spies
Date: 03/01/10 Title: Group Leader

RJ LEE GROUP
BLANKS

010027

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Preparation Blank Concentration Units (mg/L or mg/kg): mg/kg

ANALYTE	UNITS	ICB	C	CCB							
				1	C	2	C	3	C	PB	C
Dibutyl Phosphate	mg/L	0.115	U	0.115	U	0.115	U	0.115	U	0.839	U
Monobutyl Phosphate	mg/L	0.0846	U	0.0846	U	0.0846	U	0.0846	U	0.615	U

ICB = initial calibration blank; CCB = continuing calibration blank; PB = preparation blank; C = concentration qualifier code

RJ LEE GROUP
BLANKS

010028

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Preparation Blank Concentration Units (mg/L or mg/kg): _____

ANALYTE	UNITS	ICB	C	CCB							
				1	C	2	C	3	C	PB	C
Dibutyl Phosphate	mg/L			0.115	U						
Monobutyl Phosphate	mg/L			0.0846	U						

ICB = initial calibration blank; CCB = continuing calibration blank; PB = preparation blank; C = concentration qualifier code

RJ LEE GROUP

MATRIX SPIKE SAMPLE

010029

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Matrix: Soil

Field Sample ID # WA020620090002-002 Lab Sample ID # 412816S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	18.9		0.793	U	19.2	98.4%	
Monobutyl Phosphate	mg/kg	11.1		0.581	U	14.1	78.7%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP
MATRIX SPIKE SAMPLE

010030

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Matrix: Soil

Field Sample ID # WA060120100001-002 Lab Sample ID # 412818S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	20.6		0.792	U	20.8	99.0%	
Monobutyl Phosphate	mg/kg	11.9		0.580	U	15.2	78.3%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP

MATRIX SPIKE SAMPLE

010031

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Matrix: Soil

Field Sample ID # WA110620090003-002 Lab Sample ID # 412826S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	20.4		0.822	U	20.4	100%	
Monobutyl Phosphate	mg/kg	11.8		0.602	U	14.9	79.2%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP

MATRIX SPIKE SAMPLE

010032

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Matrix: Soil

Field Sample ID # WA110820090010-001 Lab Sample ID # 412827S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	20.4		0.837	U	21.2	96.2%	
Monobutyl Phosphate	mg/kg	12.4		0.613	U	15.6	79.5%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP

MATRIX SPIKE SAMPLE

010033

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Matrix: Soil

Field Sample ID # WA120820090018-001 Lab Sample ID # 412832S

ANALYTE	UNITS	SSR	C	SR	C	SA	%R	Q
Dibutyl Phosphate	mg/kg	18.6		0.701	U	18.0	103%	
Monobutyl Phosphate	mg/kg	10.5		0.514	U	13.2	79.5%	

SSR = spiked sample result; SR = sample result; SA = spike added; C = concentration qualifier code; Q = data qualifier code.

COMMENTS:

FORM # 5

RJ LEE GROUP
DUPLICATE SAMPLE

010034

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Matrix: Soil

Field Sample ID # WA020620090002-002 Lab Sample ID # 412816D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.793	U	0.782	U	0.00%	
Monobutyl Phosphate	mg/kg	0.581	U	0.573	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

FORM # 7

RJ LEE GROUP

DUPLICATE SAMPLE

010035

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Matrix: Soil

Field Sample ID # WA060120100001-002 Lab Sample ID # 412818D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.792	U	0.797	U	0.00%	
Monobutyl Phosphate	mg/kg	0.580	U	0.585	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code

Q = data qualifier code

FORM # 7

RJ LEE GROUP
DUPLICATE SAMPLE

010036

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Matrix: Soil

Field Sample ID # WA110620090003-002 Lab Sample ID # 412826D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.822	U	0.811	U	0.00%	
Monobutyl Phosphate	mg/kg	0.602	U	0.595	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

FORM # 7

RJ LEE GROUP

DUPLICATE SAMPLE

010037

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Matrix: Soil

Field Sample ID # WA110820090010-001 Lab Sample ID # 412827D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.837	U	0.772	U	0.00%	
Monobutyl Phosphate	mg/kg	0.613	U	0.566	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code

Q = data qualifier code

FORM # 7

RJ LEE GROUP
DUPLICATE SAMPLE

010038

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR # 39222 SDG No.: 412818

Matrix: Soil

Field Sample ID # WA120820090018-001 Lab Sample ID # 412832D

% Solids for Sample _____ % Solids for Duplicate _____

ANALYTE	UNITS	SR	C	DSR	C	%R	Q
Dibutyl Phosphate	mg/kg	0.701	U	0.804	U	0.00%	
Monobutyl Phosphate	mg/kg	0.514	U	0.589	U	0.00%	

SR = sample result; DSR = duplicate sample result; RPD = relative percent difference; C = concentration qualifier code
Q = data qualifier code

FORM # 7

RJ LEE GROUP

LABORATORY CONTROL SAMPLE

010039

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR# 39222 SDG No.: 412818

LCS Matrix: Soil LCS Source: 174-02-IC7

ANALYTE	UNITS	TRUE	FOUND	C	CONTROL LIMITS LOW	HIGH	%R
Dibutyl Phosphate	mg/kg	42.0	42.6				101.4%
Monobutyl Phosphate	mg/kg	30.8	30.1				97.7%

C = concentration qualifier code

RJ LEE GROUP

METHOD DETECTION LIMITS

010040

Lab Name: Southwest Research Institute Lab Code: SwRI Contract: 15510.01.00X

TO# 100202-4 SRR# 39222 SDG No.: 412818

ANALYTE	ANALYTICAL DESCRIPTION		INSTRUMENT ID#	UNITS	Reporting Limit
	METHOD	TECHNIQUE			
Dibutyl Phosphate	9056 M	IC	Dionex 4500 White	mg/kg	0.839
Monobutyl Phosphate	9056 M	IC	Dionex 4500 White	mg/kg	0.615

ID # = identification number; MDL = method detection limit

COMMENTS:

FORM # 10

Date: 13 September 2010
To: CH2M Hill (technical representative)
From: Analytical Quality Associates, Inc.
Project: WMA C
Subject: Pesticides - Sample Data Groups (SDGs) 20090161, 20090378, 20090365, 20090454, 20090575, 20090608 and 20090878

INTRODUCTION

This memorandum presents the results of data validation for SDGs 20090161, 20090378, 20090365, 20090454, 20090575, 20090608 and 20090878 prepared by RJ Lee*Group*, Inc., Center for Laboratory Sciences. A list of samples validated along with the analytical methods is provided in the following table.

Sample ID	Sample Date	Media	Validation Level	Analytical Method
WA210420090001-001	4-19-2009	Soil	C	8081
WA020620090002-001	5-21-2009	Soil	C	8081
WA020620090002-002	5-21-2009	Soil	C	8081
WA110620090003-001	6-03-2009	Soil	C	8081
WA110620090003-002	6-04-2009	Soil	C	8081
WA220620090005-001	6-15-2009	Soil	C	8081
WA220620090005-002	6-15-2009	Soil	C	8081
WA220620090005-003	6-15-2009	Soil	C	8081
WA110820090010-001	7-30-2009	Soil	C	8081
WA110820090010-002	7-30-2009	Soil	C	8081
WA110820090010-003	7-30-2009	Soil	C	8081
WA110820090010-004	7-30-2009	Soil	C	8081
WA110820090010-005	7-30-2009	Soil	C	8081
WA180820090011-001	8-11-2009	Soil	C	8081
WA180820090011-002	8-11-2009	Soil	C	8081
WA180820090011-003	8-11-2009	Soil	C	8081
WA180820090011-004	8-10-2009	Soil	C	8081
WA180820090011-005	8-10-2009	Soil	C	8081
WA060120100001-001	12-29-2009	Soil	C	8081
WA060120100001-002	12-29-2009	Soil	C	8081
WA060120100001-003	12-30-2009	Soil	C	8081
WA060820090014-001	8-03-2009	Water	C	8081
WA060820090014-002	8-03-2009	Water	C	8081

Data validation was conducted in accordance with the CHPRC validation statement of work and the Field Sampling and Analysis Plan for Waste Management Area C, RPP-PLAN-40564, Rev. 2 (SAP). Appendices 1 through 6 provide the following information as indicated below:

Appendix 1. Glossary of Data Reporting Qualifiers

Appendix 2. Summary of Data Qualification
Appendix 3. Annotated Laboratory Reports
Appendix 4. Laboratory Narrative and Chain-of-Custody Documentation
Appendix 5. Data Validation Supporting Documentation
Appendix 6. Additional Documentation Requested By Client

DATA QUALITY OBJECTIVES

- **Holding Times and Sample Preservation**

Holding times are calculated from Chain-of-Custody forms to determine the validity of the results. The holding time requirements for pesticides are extraction within 14 days of sample collection and analysis within 40 days of sample extraction. Sample preservation requires chilling to 4 degrees Celsius.

All samples were analyzed beyond 2X the sample collection to extraction holding time, and all samples except three (WA060120100001-001, WA060120100001-002 and WA060120100001-003) were analyzed beyond 2X the sample extraction to analysis holding time. Non-detected sample results should be qualified as unusable and flagged UR. Detected sample results should be qualified as estimates and flagged J. See the table in Appendix 2 for a listing of all affected sample results. All samples were properly preserved.

- **Blanks**

The blank data results are reviewed to assess the extent of contamination introduced through sampling, sample preparation, and analysis.

Laboratory Blanks

All laboratory blank results were acceptable.

Trip Blanks

No trip blanks were submitted for validation.

Field Blanks

No field blanks were submitted for validation.

Equipment Blanks

All equipment blank results were acceptable.

- **Accuracy**

Accuracy is evaluated by reviewing surrogate results, matrix spike sample results, and laboratory control sample results. According to the SAP, the matrix spike and laboratory control sample accuracy limits are 70% to 130%.

Surrogates

Surrogate recovery summary forms were not provided in the data package, and determination of surrogate recoveries from raw data was not feasible. The client was notified and instructed AQA to not perform surrogate recovery assessment. No sample data should be qualified as a result.

Matrix Spike (MS) Samples

All MS recoveries were acceptable with the following exceptions.

For SDG 20090378, the MS recovery for gamma hexachlorocyclohexane was above the upper acceptance limit. The associated sample results were non-detects and should not be qualified.

For SDG 20090365, the MS recovery for pentachlorophenol was below the lower acceptance limit. The associated results for samples WA110620090003-001 and WA110620090003-002 were non-detects and would be qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time infractions.

For SDG 20090454, the MS recovery for pentachlorophenol was below the lower acceptance limit. The associated results for samples WA220620090005-001, WA220620090005-002 and WA220620090005-003 were non-detects and would be qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time infractions.

For SDG 20090575 (water), an MS was not performed. The associated results for samples WA060820090014-001 and WA060820090014-002 were non-detects and would be qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time infractions.

For SDG 20090575 (soil), the MS recovery for pentachlorophenol was below the lower acceptance limit. The associated results for samples WA110820090010-001, WA110820090010-002, WA110820090010-003, WA110820090010-004 and WA110820090010-005 were non-detects and would be qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time infractions.

For SDG 20090878, the MS recoveries for hexachlorobenzene, aldrin, alpha hexachlorocyclohexane, delta hexachlorocyclohexane, DDE, dieldrin, heptachlor and heptachlor epoxide were below the lower acceptance limit. The associated results for samples WA060120100001-001, WA060120100001-002 and WA060120100001-003 were non-detects and would be qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time infractions. The MS recovery for pentachlorophenol

was above the upper acceptance limit. The associated sample results were non-detects and should not be qualified for the MS recovery infraction.

It should be mentioned that MS analyses were not performed for multi-component analyte chlordane. No sample data are qualified as a result.

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Samples

All LCS/LCSD recoveries were acceptable with the following exceptions.

For SDGs 20090161, 20090378, 20090365 and 20090454 the beta hexachlorocyclohexane LCS and LCSD recoveries were above the upper acceptance limit. The associated results for samples WA020620090002-001, WA020620090002-002, WA110620090003-002 and WA220620090005-001 were detects and should be qualified as estimates and flagged "J." The remaining associated sample results were non-detects and should not be qualified for the LCS/LCSD infractions.

For SDGs 20090161, 20090378, 20090365 and 20090454 the pentachlorophenol LCS and LCSD recoveries were below the lower acceptance limit. The associated results all samples were non-detects and would be qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time infractions.

For SDG 20090575 (water), an LCS was not performed. The associated results for samples WA060820090014-001 and WA060820090014-002 were non-detects and would be qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time infractions.

For SDGs 20090575 (soil) and 20090608, the hexachlorobenzene, alpha hexachlorocyclohexane, beta hexachlorocyclohexane and delta hexachlorocyclohexane LCS and/or LCSD recoveries were above the upper acceptance limit. The beta hexachlorocyclohexane results for samples WA110820090010-001, WA110820090010-002, WA110820090010-003, WA110820090010-004, WA110820090010-005, WA180820090011-001, WA180820090011-002, WA180820090011-003, WA180820090011-004 and WA180820090011-005 were detects and should be qualified as estimates and flagged "J." The remaining associated sample results were non-detects and should not be qualified for the LCS/LCSD infractions. It should be noted that the QC results on both the sample result reporting forms and raw data QC summary forms were corrupted. The case narrative was used to determine that SDGs 20090575 (soil) and 20090608 shared the same MB, LCS and LCSD.

For SDGs 20090575 (soil) and 20090608, the endrin and pentachlorophenol LCS and LCSD recoveries were below the lower acceptance limit. The associated results all samples were non-detects and would be qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time infractions.

For SDG 20090878 the endrin and pentachlorophenol LCS and/or LCSD recoveries were below the lower acceptance limit. The associated results all samples were non-detects and would be

qualified as estimates and flagged "UJ," but were further qualified as unusable and flagged "UR" due to severe holding time infractions. It should be noted that the case narrative indicated that SDG 20090575 shared batch QC with SDG 20090878. The provided QC on the sample result reporting forms indicated that SDG 20090161 shared batch QC with SDG 20090878. The raw data QC summary forms showed SDG 20090878 had its own batch QC, and this was the QC used for data validation.

It should be mentioned that LCS analyses were not performed for multi-component analytes toxaphene and chlordane (technical). No sample data are qualified as a result.

- **Precision**

Precision is evaluated by reviewing LCS/LCSD results, laboratory duplicate sample results, field duplicate sample results, and field split sample results. These QC results provide information on the laboratory reproducibility and whether sampling activities are adequate to acquire consistent sample results. According to the SAP, the relative percent difference (RPD) limits are ±30%. When duplicate RPDs for soils exceed the limits and have associated results <5X the SAP required detection limits with differences <2X the required detection limits no precision infraction occurred. When duplicate RPDs for waters exceed the limits and have associated results <5X the required SAP detection limits with differences <1X the required detection limits no precision infraction occurred.

LCS/LCSD Samples

All LCS/LCSD relative percent difference values were acceptable.

Laboratory Duplicate Samples

All laboratory duplicate results were acceptable.

Field Duplicate Samples

No field duplicates were submitted for validation.

Field Split Samples

No field splits were submitted for validation.

- **Detection Limits**

Reported MDLs are compared against the contractually required detection limits (CRDLs) to ensure that laboratory detection limits meet the required criteria.

All reported sample MDLs were below the CRDLs.

- **Completeness**

SDGs 20090161, 20090378, 20090365, 20090454, 20090575, 20090608 and 20090878 were submitted for validation and verified for completeness. Completeness is based on the percentage of data determined to be valid (i.e., not rejected). The completion percentage was 4%.

MAJOR DEFICIENCIES

Major deficiencies leading to qualification of sample results as unusable were due to severe holding time infractions. See the table in Appendix 2 for a listing of all affected sample results.

MINOR DEFICIENCIES

Multiple minor deficiencies leading to qualification of sample results as estimates occurred. See the table in Appendix 2 for a listing of all affected sample results.

REFERENCES

HNF-20433, Rev. 0, *Data Validation Procedure for Chemical Analyses*, June 2004.

RPP-PLAN-40564, Rev. 2, *Field Sampling and Analysis Plan for Waste Management Area C*, December 2009.

SOW 21065-39, Requisition # 184081, Rev. 0, *General Contractor-Technical Statement of Work*, February 2009.

Appendix 1

Glossary of Data Reporting Qualifiers

Qualifiers that may be applied by data validators in compliance with the CHPRC statement of work are as follows:

- **U** — The constituent was analyzed for and was not detected. The data should be considered usable for decision-making purposes.

- **UJ** — The constituent was analyzed for and was not detected. Due to a quality control deficiency identified during data validation the value reported may not accurately reflect the MDL. The data should be considered usable for decision-making purposes.

- **J** — Indicates the constituent was analyzed for and detected. The associated value is estimated due to a quality control deficiency identified during data validation. The data should be considered usable for decision-making purposes.

- **UR** — Indicates the constituent was analyzed for and not detected; however, due to an identified quality control deficiency the data should be considered unusable for decision-making purposes.

- **R** — Indicates the constituent was analyzed for and detected; however, due to an identified quality control deficiency the data should be considered unusable for decision-making purposes.

Appendix 2

Summary of Data Qualification

Pesticides Data Qualification Summary			
SDGs: 20090161, 20090378, 20090365, 20090454, 20090575, 20090608, 20090878	Reviewer: AQA	Project: WMA C	Page 1 of 5
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
Aldrin alpha Hexachlorcyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma Hexachlorocyclohexane Chlordane DDT DDD DDE Dieldrin Endrin Hexachlorobenzene Heptachlor Heptachlor epoxide	**UR**	WA210420090001-001	Extracted and analyzed beyond 2X the holding times
Pentachlorophenol	**UR**	WA210420090001-001	Extracted and analyzed beyond 2X the holding times, low LCS & LCSD recoveries
Aldrin alpha Hexachlorcyclohexane delta Hexachlorocyclohexane gamma Hexachlorocyclohexane Chlordane DDT DDD DDE Dieldrin Endrin Hexachlorobenzene Heptachlor Heptachlor epoxide	**UR**	WA020620090002-001 WA020620090002-002	Extracted and analyzed beyond 2X the holding times
Pentachlorophenol	**UR**	WA020620090002-001 WA020620090002-002	Extracted and analyzed beyond 2X the holding times, low LCS & LCSD recoveries
beta Hexachlorocyclohexane	J	WA020620090002-001 WA020620090002-002	Extracted and analyzed beyond 2X the holding times, high LCS & LCSD recoveries

Pesticides Data Qualification Summary			
SDGs: 20090161, 20090378, 20090365, 20090454, 20090575, 20090608, 20090878	Reviewer: AQA	Project: WMA C	Page 2 of 5
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
Aldrin alpha Hexachlorcyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma Hexachlorocyclohexane Chlordane DDT DDD DDE Dieldrin Endrin Hexachlorobenzene Heptachlor Heptachlor epoxide	**UR**	WA110620090003-001	Extracted and analyzed beyond 2X the holding times
Pentachlorophenol	**UR**	WA110620090003-001 WA110620090003-002 WA220620090005-001 WA220620090005-002 WA220620090005-003	Extracted and analyzed beyond 2X the holding times, low LCS, LCSD and MS recoveries
Aldrin alpha Hexachlorcyclohexane delta Hexachlorocyclohexane gamma Hexachlorocyclohexane Chlordane DDT DDD DDE Dieldrin Endrin Hexachlorobenzene Heptachlor Heptachlor epoxide	**UR**	WA110620090003-002 WA220620090005-001	Extracted and analyzed beyond 2X the holding times
beta Hexachlorocyclohexane	J	WA110620090003-002 WA220620090005-001	Extracted and analyzed beyond 2X the holding times, high LCS & LCSD recoveries

Pesticides Data Qualification Summary			
SDGs: 20090161, 20090378, 20090365, 20090454, 20090575, 20090608, 20090878	Reviewer: AQA	Project: WMA C	Page 3 of 5
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
Aldrin alpha Hexachlorcyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma Hexachlorocyclohexane Chlordane DDT DDD DDE Dieldrin Endrin Hexachlorobenzene Heptachlor Heptachlor epoxide	**UR**	WA220620090005-002 WA220620090005-003	Extracted and analyzed beyond 2X the holding times
Aldrin alpha Hexachlorcyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma Hexachlorocyclohexane Chlordane DDT DDD DDE Dieldrin Endrin Hexachlorobenzene Heptachlor Heptachlor epoxide Pentachlorophenol	**UR**	WA060820090014-001 WA060820090014-002	Extracted and analyzed beyond 2X the holding times, lack of MS and LCS data
Aldrin alpha Hexachlorcyclohexane delta Hexachlorocyclohexane gamma Hexachlorocyclohexane Chlordane DDT DDD DDE Dieldrin Hexachlorobenzene Heptachlor Heptachlor epoxide	**UR**	WA110820090010-001 WA110820090010-002 WA110820090010-003 WA110820090010-004 WA110820090010-005 WA180820090011-001 WA180820090011-002 WA180820090011-004 WA180820090011-005	Extracted and analyzed beyond 2X the holding times

Pesticides Data Qualification Summary			
SDGs: 20090161, 20090378, 20090365, 20090454, 20090575, 20090608, 20090878	Reviewer: AQA	Project: WMA C	Page 4 of 5
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
Endrin	**UR**	WA110820090010-001 WA110820090010-002 WA110820090010-003 WA110820090010-004 WA110820090010-005 WA180820090011-001 WA180820090011-002 WA180820090011-003 WA180820090011-004 WA180820090011-005	Extracted and analyzed beyond 2X the holding times, low LCS & LCSD recoveries
Pentachlorophenol	**UR**	WA110820090010-001 WA110820090010-002 WA110820090010-003 WA110820090010-004 WA110820090010-005	Extracted and analyzed beyond 2X the holding times, low LCS, LCSD and MS recoveries
beta Hexachlorocyclohexane	J	WA110820090010-001 WA110820090010-002 WA110820090010-003 WA110820090010-004 WA110820090010-005 WA180820090011-001 WA180820090011-002 WA180820090011-003 WA180820090011-004 WA180820090011-005	Extracted and analyzed beyond 2X the holding times, high LCS & LCSD recoveries
Pentachlorophenol	**UR**	WA180820090011-001 WA180820090011-002 WA180820090011-003 WA180820090011-004 WA180820090011-005	Extracted and analyzed beyond 2X the holding times, low LCS and LCSD recoveries
Aldrin alpha Hexachlorcyclohexane delta Hexachlorocyclohexane Chlordane DDT DDD DDE Dieldrin Hexachlorobenzene Heptachlor Heptachlor epoxide	**UR**	WA180820090011-003	Extracted and analyzed beyond 2X the holding times

Pesticides Data Qualification Summary			
SDGs: 20090161, 20090378, 20090365, 20090454, 20090575, 20090608, 20090878	Reviewer: AQA	Project: WMA C	Page 5 of 5
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
gamma Hexachlorocyclohexane	J	WA180820090011-003	Extracted and analyzed beyond 2X the holding times
beta Hexachlorocyclohexane gamma Hexachlorocyclohexane Chlordane DDT DDD	**UR**	WA060120100001-001 WA060120100001-002 WA060120100001-003	Extracted beyond 2X the holding time
Endrin Pentachlorophenol	**UR**	WA060120100001-001 WA060120100001-002 WA060120100001-003	Extracted beyond 2X the holding time, low LCS and/or LCSD recoveries
Aldrin alpha Hexachlorcyclohexane delta Hexachlorocyclohexane DDE Dieldrin Heptachlor Heptachlor epoxide Hexachlorobenzene	**UR**	WA060120100001-001 WA060120100001-002 WA060120100001-003	Extracted beyond 2X the holding time, low MS recoveries

Comments: None

Appendix 3

Annotated Laboratory Reports

RJ Lee*Group*, Inc.|Center for Laboratory Sciences
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Tel: (509) 545-4989 | Fax: (509) 544-6010

Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA210420090001
Address:	2440 Stevens Center	Samples Received:	04/21/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/09
Telephone:	509-373-1883	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V000227	WA210420090001-001	4/14/2009	Aldrin	309-00-2	10.855	82.8	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	alpha Hexachlorcyclohexane	319-84-6	10.855	93.9	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	beta Hexachlorocyclohexane	319-85-7	10.855	205.0	<0.78	<0.4	<0.4	N/A	0.4	H, a	UR
S09V000227	WA210420090001-001	4/14/2009	delta Hexachlorocyclohexane	319-86-8	10.855	100.6	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	10.855	126.1	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	Chlordane (total mixture)	57-74-9	10.855	NA	<39.05	<20.06	<20.06	N/A	20.06	H,a,s	UR
S09V000227	WA210420090001-001	4/14/2009	DDT	50-29-3	10.855	102.6	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	DDD	72-54-8	10.855	94.8	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	DDE	72-55-9	10.855	75.6	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	Dieldrin	60-57-1	10.855	101.1	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	Endrin	72-20-8	10.855	104.5	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	Hexachlorobenzene	118-74-1	10.855	83.2	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	Heptachlor	76-44-8	10.855	105.4	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	Heptachlor epoxide	1024-57-3	10.855	84.3	<0.78	<0.4	<0.4	N/A	0.4	H	UR
S09V000227	WA210420090001-001	4/14/2009	Pentachlorophenol	87-86-5	10.855	31.8	<0.78	<0.4	<0.4	N/A	0.4	H, a	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

LS
9-13-2010

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
H = Holding time exceedance
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

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Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA210420090001
Address:	2440 Stevens Center	Samples Received:	04/21/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/09
Telephone:	509-373-1883	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

Authorized Signature: L Joseph Sears
Technical Manager: Mr. L. Joseph Sears

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in acordance with ISO 17025 guidelines, and holds limited scopes of accreditation under EPA ID WA01195, NY NELAP Lab Code 11829, CA ELAP Certificate 2574, WA DOE Lab ID C1928, MD DHMH Certificate 312, and LELAP Certificate 04121, OR ORELAP ID WA200005. This report may not be used ot claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or th the sample(s) as received by the laboratory. Quality control data is available upon request.

RJ Lee*Group*, Inc.|Center for Laboratory Sciences
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Pesticides by EPA 8081

Client: Washington River Protection Solutions
Address: 2440 Stevens Center
Richland, WA 99352 MSIN T6-02
Attention: Steve McKinney
Telephone: 509-372-1945
Fax: 509-372-1878

RJ Lee Group Project: WA020620090002
Samples Received: 06/02/09
Report Date: 03/11/10
Prep Date: 10/15/09
Analysis Date: 2/7/10-2/10/10
Client Project: Vadose
Lab Group No.: 20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V000635	WA020620090002-001	5/21/2009	Aldrin	309-00-2	5.179	82.8	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	alpha Hexachlorcyclohexane	319-84-6	5.179	93.9	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	beta Hexachlorocyclohexane	319-85-7	5.179	205.0	<0.78	25.8	N/A	N/A	0.829	a, H	J
S09V000635	WA020620090002-001	5/21/2009	delta Hexachlorocyclohexane	319-86-8	5.179	100.6	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.179	126.1	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	Chlordane (total mixture)	57-74-9	5.179	NA	<39.05	<41.429	N/A	N/A	41.429	H,a,s	UR
S09V000635	WA020620090002-001	5/21/2009	DDT	50-29-3	5.179	102.6	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	DDD	72-54-8	5.179	94.8	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	DDE	72-55-9	5.179	75.6	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	Dieldrin	60-57-1	5.179	101.1	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	Endrin	72-20-8	5.179	104.5	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	Hexachlorobenzene	118-74-1	5.179	83.2	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	Heptachlor	76-44-8	5.179	105.4	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	Heptachlor epoxide	1024-57-3	5.179	84.3	<0.78	<0.829	N/A	N/A	0.829	H	UR
S09V000635	WA020620090002-001	5/21/2009	Pentachlorophenol	87-86-5	5.179	31.8	<0.78	<0.829	N/A	N/A	0.829	a, H	UR
S09V000651	WA020620090002-002	5/21/2009	Aldrin	309-00-2	5.302	82.8	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	alpha Hexachlorcyclohexane	319-84-6	5.302	93.9	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	beta Hexachlorocyclohexane	319-85-7	5.302	205.0	<0.78	22.5	20.1	11.57	0.807	a, H	J
S09V000651	WA020620090002-002	5/21/2009	delta Hexachlorocyclohexane	319-86-8	5.302	100.6	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.302	126.1	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	Chlordane (total mixture)	57-74-9	5.302	NA	<39.05	<40.327	N/A	N/A	40.327	H,a,s	UR
S09V000651	WA020620090002-002	5/21/2009	DDT	50-29-3	5.302	102.6	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	DDD	72-54-8	5.302	94.8	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	DDE	72-55-9	5.302	75.6	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	Dieldrin	60-57-1	5.302	101.1	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	Endrin	72-20-8	5.302	104.5	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	Hexachlorobenzene	118-74-1	5.302	83.2	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	Heptachlor	76-44-8	5.302	105.4	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	Heptachlor epoxide	1024-57-3	5.302	84.3	<0.78	<0.807	N/A	N/A	0.807	H	UR
S09V000651	WA020620090002-002	5/21/2009	Pentachlorophenol	87-86-5	5.302	31.8	<0.78	<0.807	N/A	N/A	0.807	a, H	UR

LS
9-13-2010

RJ Lee*Group*, Inc.|Center for Laboratory Sciences
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Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA020620090002
Address:	2440 Stevens Center	Samples Received:	06/02/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/09
Telephone:	509-372-1945	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in acordance with ISO 17025 guidelines, and holds limited scopes of accreditation under EPA ID WA01195, NY NELAP Lab Code 11829, WA DOE Lab ID C1928. This report may not be used ot claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or th the sample(s) as received by the laboratory. Quality control data is available upon request.

RJ Lee*Group*, Inc. | Center for Laboratory Sciences
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Tel: (509) 545-4989 | Fax: (509) 544-6011

Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090003
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/2009,2/5/10
Telephone:	509-373-1883	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V000510	WA110620090003-001	6/3/2009	Aldrin	309-00-2	5.117	82.8	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	alpha Hexachlorcyclohexane	319-84-6	5.117	93.9	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	beta Hexachlorocyclohexane	319-85-7	5.117	205.0	<0.79	<0.84	N/A	N/A	0.84	H, a	UR
S09V000510	WA110620090003-001	6/3/2009	delta Hexachlorocyclohexane	319-86-8	5.117	100.6	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.117	126.1	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	Chlordane (total mixture)	57-74-9	5.117	NA	<39.28	<42.07	N/A	N/A	42.07	H,a,s	UR
S09V000510	WA110620090003-001	6/3/2009	DDT	50-29-3	5.117	102.6	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	DDD	72-54-8	5.117	94.8	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	DDE	72-55-9	5.117	75.6	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	Dieldrin	60-57-1	5.117	101.1	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	Endrin	72-20-8	5.117	104.5	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	Hexachlorobenzene	118-74-1	5.117	83.2	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	Heptachlor	76-44-8	5.117	105.4	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	Heptachlor epoxide	1024-57-3	5.117	84.3	<0.79	<0.84	N/A	N/A	0.84	H	UR
S09V000510	WA110620090003-001	6/3/2009	Pentachlorophenol	87-86-5	5.117	31.8	<0.79	<0.84	N/A	N/A	0.84	H, s,a	UR
S09V000554	WA110620090003-002	6/4/2009	Aldrin	309-00-2	5.119	82.8	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	alpha Hexachlorcyclohexane	319-84-6	5.119	93.9	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	beta Hexachlorocyclohexane	319-85-7	5.119	205.0	<0.78	22.5	23.6	4.61	0.82	H,a,s	J
S09V000554	WA110620090003-002	6/4/2009	delta Hexachlorocyclohexane	319-86-8	5.119	100.6	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.119	126.1	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	Chlordane (total mixture)	57-74-9	5.119	0.0	<39.05	<41.19	N/A	N/A	41.19	H,a,s	UR
S09V000554	WA110620090003-002	6/4/2009	DDT	50-29-3	5.119	102.6	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	DDD	72-54-8	5.119	94.8	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	DDE	72-55-9	5.119	75.6	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	Dieldrin	60-57-1	5.119	101.1	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	Endrin	72-20-8	5.119	104.5	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	Hexachlorobenzene	118-74-1	5.119	83.2	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	Heptachlor	76-44-8	5.119	105.4	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	Heptachlor epoxide	1024-57-3	5.119	84.3	<0.78	<0.82	N/A	N/A	0.82	H	UR
S09V000554	WA110620090003-002	6/4/2009	Pentachlorophenol	87-86-5	5.119	31.8	<0.78	<0.82	N/A	N/A	0.82	H, s,a	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

LS
9-13-2010

RJ Lee*Group*, Inc.|Center for Laboratory Sciences
2711 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6011

Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090003
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/2009,2/5/10
Telephone:	509-373-1883	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in acordance with ISO 17025 guidelines, and holds limited scopes of accreditation under EPA ID WA01195, NY NELAP Lab Code 11829, CA ELAP Certificate 2574, WA DOE Lab ID C1928, MD DHMH Certificate 312, and LELAP Certificate 04121, OR ORELAP ID WA200005. This report may not be used ot claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or th the sample(s) as received by the laboratory. Quality control data is available upon request.

RJ Lee*Group* , Inc. | Center for Laboratory Sciences
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Pesticides by EPA 8081

Client: Washington River Protection Solutions
Address: 2440 Stevens Center
Richland, WA 99352 MSIN T6-02
Attention: Steve McKinney
Telephone: 509-372-1945
Fax: 509-372-1878

RJ Lee Group Project: WA220620090005
Samples Received: 06/22/09
Report Date: 03/11/10
Prep Date: 10/15/2009,2/5/10
Analysis Date: 2/7/10-2/10/10
Client Project: Vadose
Lab Group No.: 20090454

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V000761	WA220620090005-001	6/15/2009	Aldrin	309-00-2	5.150	82.8	<0.78	<0.817	<0.817	N/A	0.817	H	UR
S09V000761	WA220620090005-001	6/15/2009	alpha Hexachlorcyclohexane	319-84-6	5.150	93.9	<0.78	<0.817	<0.817	N/A	0.817	H	UR
S09V000761	WA220620090005-001	6/15/2009	beta Hexachlorocyclohexane	319-85-7	5.150	205.0	<0.78	21.2	23.62	10.64	0.817	H, a	J
S09V000761	WA220620090005-001	6/15/2009	delta Hexachlorocyclohexane	319-86-8	5.150	100.6	<0.78	<0.817	<0.817	N/A	0.817	H	UR
S09V000761	WA220620090005-001	6/15/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.150	126.1	<0.78	<0.817	<0.817	N/A	0.817	H	UR
S09V000761	WA220620090005-001	6/15/2009	Chlordane (total mixture)	57-74-9	5.150	N/A	<39.05	<40.85	<40.85	N/A	40.85	H	UR
S09V000761	WA220620090005-001	6/15/2009	DDT	50-29-3	5.150	102.6	<0.78	<0.817	<0.817	N/A	0.817	H,a,s	UR
S09V000761	WA220620090005-001	6/15/2009	DDD	72-54-8	5.150	94.8	<0.78	<0.817	<0.817	N/A	0.817	H	UR
S09V000761	WA220620090005-001	6/15/2009	DDE	72-55-9	5.150	75.6	<0.78	<0.817	<0.817	N/A	0.817	H	UR
S09V000761	WA220620090005-001	6/15/2009	Dieldrin	60-57-1	5.150	101.1	<0.78	<0.817	<0.817	N/A	0.817	H	UR
S09V000761	WA220620090005-001	6/15/2009	Endrin	72-20-8	5.150	104.5	<0.78	<0.817	<0.817	N/A	0.817	H	UR
S09V000761	WA220620090005-001	6/15/2009	Hexachlorobenzene	118-74-1	5.150	83.2	<0.78	<0.817	<0.817	N/A	0.817	H	UR
S09V000761	WA220620090005-001	6/15/2009	Heptachlor	76-44-8	5.150	105.4	<0.78	<0.817	<0.817	N/A	0.817	H	UR
S09V000761	WA220620090005-001	6/15/2009	Heptachlor epoxide	1024-57-3	5.150	84.3	<0.78	<0.817	<0.817	N/A	0.817	H	UR
S09V000761	WA220620090005-001	6/15/2009	Pentachlorophenol	87-86-5	5.150	31.8	<0.78	<0.817	<0.817	N/A	0.817	H, s,a	UR
S09V000762	WA220620090005-002	6/15/2009	Aldrin	309-00-2	5.568	93.3	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	alpha Hexachlorcyclohexane	319-84-6	5.568	96.3	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	beta Hexachlorocyclohexane	319-85-7	5.568	107.0	<0.79	<0.774	N/A	N/A	0.774	H, s	UR
S09V000762	WA220620090005-002	6/15/2009	delta Hexachlorocyclohexane	319-86-8	5.568	104.4	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.568	116.3	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	Chlordane (total mixture)	57-74-9	5.568	N/A	<39.28	<38.684	N/A	N/A	38.684	H,a,s	UR
S09V000762	WA220620090005-002	6/15/2009	DDT	50-29-3	5.568	102.6	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	DDD	72-54-8	5.568	94.4	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	DDE	72-55-9	5.568	92.4	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	Dieldrin	60-57-1	5.568	41.7	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	Endrin	72-20-8	5.568	73.9	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	Hexachlorobenzene	118-74-1	5.568	89.7	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	Heptachlor	76-44-8	5.568	102.7	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	Heptachlor epoxide	1024-57-3	5.568	91.5	<0.79	<0.774	N/A	N/A	0.774	H	UR
S09V000762	WA220620090005-002	6/15/2009	Pentachlorophenol	87-86-5	5.568	60.0	<0.79	<0.774	N/A	N/A	0.774	H, s	UR

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Pesticides by EPA 8081

Client: Washington River Protection Solutions
Address: 2440 Stevens Center
Richland, WA 99352 MSIN T6-02
Attention: Steve McKinney
Telephone: 509-372-1945
Fax: 509-372-1878

RJ Lee Group Project: WA220620090005
Samples Received: 06/22/09
Report Date: 03/11/10
Prep Date: 10/15/2009,2/5/10
Analysis Date: 2/7/10-2/10/10
Client Project: Vadose
Lab Group No.: 20090454

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V000763	WA220620090005-003	6/15/2009	Aldrin	309-00-2	5.484	82.8	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	alpha Hexachlorcyclohexane	319-84-6	5.484	93.9	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	beta Hexachlorocyclohexane	319-85-7	5.484	205.0	<0.79	<0.766	N/A	N/A	0.766	H, a	UR
S09V000763	WA220620090005-003	6/15/2009	delta Hexachlorocyclohexane	319-86-8	5.484	100.6	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.484	126.1	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	Chlordane (total mixture)	57-74-9	5.484	N/A	<39.28	<38.299	N/A	N/A	38.299	H,a,s	UR
S09V000763	WA220620090005-003	6/15/2009	DDT	50-29-3	5.484	102.6	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	DDD	72-54-8	5.484	94.8	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	DDE	72-55-9	5.484	75.6	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	Dieldrin	60-57-1	5.484	101.1	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	Endrin	72-20-8	5.484	104.5	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	Hexachlorobenzene	118-74-1	5.484	83.2	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	Heptachlor	76-44-8	5.484	105.4	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	Heptachlor epoxide	1024-57-3	5.484	84.3	<0.79	<0.766	N/A	N/A	0.766	H	UR
S09V000763	WA220620090005-003	6/15/2009	Pentachlorophenol	87-86-5	5.484	31.8	<0.79	<0.766	N/A	N/A	0.766	H, s,a	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

LS
9-13-2010

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

RJ Lee*Group* , Inc. | **Center for Laboratory Sciences**
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Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA220620090005
Address:	2440 Stevens Center	Samples Received:	06/22/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/2009,2/5/10
Telephone:	509-372-1945	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090454

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Pesticides by EPA 8081

Client: Washington River Protection Solutions
Address: 2440 Stevens Center
Richland, WA 99352 MSIN T6-02
Attention: Steve McKinney
Telephone: 509-372-1945
Fax: 509-372-1878

RJ Lee Group Project: WA060820090014
Samples Received: 08/06/09
Report Date: 03/11/10
Prep Date: 10/15/09
Analysis Date: 2/7/10-2/10/10
Client Project: Vadose
Lab Group No.: 20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (µg/L)	Results (µg/L)	Duplicate (µg/L)	RPD	Quant. Limit (µg/L)	Qualifier	
S09V000937	WA060820090014-001	8/3/2009	Aldrin	309-00-2	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	alpha Hexachlorcyclohexane	319-84-6	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	beta Hexachlorocyclohexane	319-85-7	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	delta Hexachlorocyclohexane	319-86-8	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	Chlordane (total mixture)	57-74-9	N/A	<0.2	<0.53	<0.53	N/A	0.53	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	DDT	50-29-3	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	DDD	72-54-8	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	DDE	72-55-9	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	Dieldrin	60-57-1	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	Endrin	72-20-8	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	Hexachlorobenzene	118-74-1	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	Heptachlor	76-44-8	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	Heptachlor epoxide	1024-57-3	N/A	<0.004	<0.01	<0.01	N/A	0.01	H, S,a,s	UR
S09V000937	WA060820090014-001	8/3/2009	Pentachlorophenol	87-86-5	N/A	<0.004	<0.01	<0.01	N/A	0.01	H,S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	Aldrin	309-00-2	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	alpha Hexachlorcyclohexane	319-84-6	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	beta Hexachlorocyclohexane	319-85-7	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	delta Hexachlorocyclohexane	319-86-8	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	Chlordane (total mixture)	57-74-9	N/A	<0.2	<0.53	N/A	N/A	0.53	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	DDT	50-29-3	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	DDD	72-54-8	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	DDE	72-55-9	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	Dieldrin	60-57-1	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	Endrin	72-20-8	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	Hexachlorobenzene	118-74-1	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	Heptachlor	76-44-8	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	Heptachlor epoxide	1024-57-3	N/A	<0.004	<0.01	N/A	N/A	0.01	H, S,a,s	UR
S09V000938	WA060820090014-002	8/3/2009	Pentachlorophenol	87-86-5	N/A	<0.004	<0.01	N/A	N/A	0.01	H,S,a,s	UR

Comments:

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RJ Lee*Group*, Inc.|Center for Laboratory Sciences
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Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA060820090014
Address:	2440 Stevens Center	Samples Received:	08/06/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/09
Telephone:	509-372-1945	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (µg/L)	Results (µg/L)	Duplicate (µg/L)	RPD	Quant. Limit (µg/L)	Qualifier

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits.
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: _____
Joe Sears, Technical Manager

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in acordance with ISO 17025 guidelines, and holds limited scopes of accreditation under EPA ID WA01195, NY NELAP Lab Code 11829, CA ELAP Certificate 2574, WA DOE Lab ID C1928, MD DHMH Certificate 312, and LELAP Certificate 04121, OR ORELAP ID WA200005. This report may not be used ot claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or th the sample(s) as received by the laboratory. Quality control data is available upon request.

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Pesticides by EPA 8081

Client: Washington River Protection Solutions
Address: 2440 Stevens Center
Richland, WA 99352 MSIN T6-02
Attention: Steve McKinney
Telephone: 509-372-1945
Fax: 509-372-1878

RJ Lee Group Project: WA110820090010
Samples Received: 08/11/09
Report Date: 03/11/10
Prep Date: 10/16/10
Analysis Date: 2/4/10-2/6/10
Client Project: Vadose
Lab Group No.: 20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V000865	WA110820090010-001	7/30/2009	Aldrin	309-00-2	5.443	85.5	<0.71	<0.75	<0.75	N/A	0.75	H	UR
S09V000865	WA110820090010-001	7/30/2009	alpha Hexachlorcyclohexane	319-84-6	5.443	139.9	<0.71	<0.75	N/A	N/A	0.75	H, a	UR
S09V000865	WA110820090010-001	7/30/2009	beta Hexachlorocyclohexane	319-85-7	5.443	202.7	<0.71	22.5	21.3	5.41	0.75	H, a	J
S09V000865	WA110820090010-001	7/30/2009	delta Hexachlorocyclohexane	319-86-8	5.443	281.8	<0.71	<0.75	N/A	N/A	0.75	H, a	UR
S09V000865	WA110820090010-001	7/30/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.443	99.9	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000865	WA110820090010-001	7/30/2009	Chlordane (total mixture)	57-74-9	5.443	N/A	<35.57	<37.36	N/A	N/A	37.36	H,a,s	UR
S09V000865	WA110820090010-001	7/30/2009	DDT	50-29-3	5.443	99.6	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000865	WA110820090010-001	7/30/2009	DDD	72-54-8	5.443	95.9	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000865	WA110820090010-001	7/30/2009	DDE	72-55-9	5.443	82.0	<0.71	<0.75	N/A	N/A	0.75	H	UR
	WA110820090010-001	7/30/2009	Endrin	72-20-8	0.000	0.0	0.00	0.0	N/A	N/A	0	H	UR
S09V000865	WA110820090010-001	7/30/2009	Dieldrin	60-57-1	5.443	51.7	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000865	WA110820090010-001	7/30/2009	Hexachlorobenzene	118-74-1	5.443	131.7	<0.71	<0.75	N/A	N/A	0.75	H, a	UR
S09V000865	WA110820090010-001	7/30/2009	Heptachlor	76-44-8	5.443	102.3	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000865	WA110820090010-001	7/30/2009	Heptachlor epoxide	1024-57-3	5.443	91.7	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000865	WA110820090010-001	7/30/2009	Pentachlorophenol	87-86-5	5.443	23.6	<0.71	<0.75	N/A	N/A	0.75	H,a,s	UR
S09V000878	WA110820090010-002	7/30/2009	Aldrin	309-00-2	5.441	85.5	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000878	WA110820090010-002	7/30/2009	alpha Hexachlorcyclohexane	319-84-6	5.441	139.9	<0.71	<0.75	N/A	N/A	0.75	H, a	UR
S09V000878	WA110820090010-002	7/30/2009	beta Hexachlorocyclohexane	319-85-7	5.441	202.7	<0.71	23.4	N/A	N/A	0.75	H, a	J
S09V000878	WA110820090010-002	7/30/2009	delta Hexachlorocyclohexane	319-86-8	5.441	281.8	<0.71	<0.75	N/A	N/A	0.75	H, a	UR
S09V000878	WA110820090010-002	7/30/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.441	99.9	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000878	WA110820090010-002	7/30/2009	Chlordane (total mixture)	57-74-9	5.441	N/A	<35.57	<37.35	N/A	N/A	37.35	H,a,s	UR
S09V000878	WA110820090010-002	7/30/2009	DDT	50-29-3	5.441	99.6	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000878	WA110820090010-002	7/30/2009	DDD	72-54-8	5.441	95.9	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000878	WA110820090010-002	7/30/2009	DDE	72-55-9	5.441	82.0	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000878	WA110820090010-002	7/30/2009	Dieldrin	60-57-1	5.441	100.2	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000878	WA110820090010-002	7/30/2009	Endrin	72-20-8	5.441	51.7	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000878	WA110820090010-002	7/30/2009	Hexachlorobenzene	118-74-1	5.441	131.7	<0.71	<0.75	N/A	N/A	0.75	H, a	UR
S09V000878	WA110820090010-002	7/30/2009	Heptachlor	76-44-8	5.441	102.3	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000878	WA110820090010-002	7/30/2009	Heptachlor epoxide	1024-57-3	5.441	91.7	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V000878	WA110820090010-002	7/31/2009	Pentachlorophenol	87-86-5	5.441	23.6	<0.71	<0.75	N/A	N/A	0.75	H,a,s	UR

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Client: Washington River Protection Solutions
Address: 2440 Stevens Center
Richland, WA 99352 MSIN T6-02
Attention: Steve McKinney
Telephone: 509-372-1945
Fax: 509-372-1878

RJ Lee Group Project: WA110820090010
Samples Received: 08/11/09
Report Date: 03/11/10
Prep Date: 10/16/10
Analysis Date: 2/4/10-2/6/10
Client Project: Vadose
Lab Group No.: 20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V000906	WA110820090010-003	7/30/2009	Aldrin	309-00-2	6.499	85.5	<0.71	<0.64	N/A	N/A	0.64	H	UR
S09V000906	WA110820090010-003	7/30/2009	alpha Hexachlorcyclohexane	319-84-6	6.499	139.9	<0.71	<0.64	N/A	N/A	0.64	H, a	UR
S09V000906	WA110820090010-003	7/30/2009	beta Hexachlorocyclohexane	319-85-7	6.499	202.7	<0.71	19.4	N/A	N/A	0.64	H, a	J
S09V000906	WA110820090010-003	7/30/2009	delta Hexachlorocyclohexane	319-86-8	6.499	281.8	<0.71	<0.64	N/A	N/A	0.64	H, a	UR
S09V000906	WA110820090010-003	7/30/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	6.499	99.9	<0.71	<0.64	N/A	N/A	0.64	H	UR
S09V000906	WA110820090010-003	7/30/2009	Chlordane (total mixture)	57-74-9	6.499	N/A	<35.57	<32.12	N/A	N/A	32.12	H,a,s	UR
S09V000906	WA110820090010-003	7/30/2009	DDT	50-29-3	6.499	99.6	<0.71	<0.64	N/A	N/A	0.64	H	UR
S09V000906	WA110820090010-003	7/30/2009	DDD	72-54-8	6.499	95.9	<0.71	<0.64	N/A	N/A	0.64	H	UR
S09V000906	WA110820090010-003	7/30/2009	DDE	72-55-9	6.499	82.0	<0.71	<0.64	N/A	N/A	0.64	H	UR
S09V000906	WA110820090010-003	7/30/2009	Dieldrin	60-57-1	6.499	100.2	<0.71	<0.64	N/A	N/A	0.64	H	UR
S09V000906	WA110820090010-003	7/30/2009	Endrin	72-20-8	6.499	51.7	<0.71	<0.64	N/A	N/A	0.64	H	UR
S09V000906	WA110820090010-003	7/30/2009	Hexachlorobenzene	118-74-1	6.499	131.7	<0.71	<0.64	N/A	N/A	0.64	H, a	UR
S09V000906	WA110820090010-003	7/30/2009	Heptachlor	76-44-8	6.499	102.3	<0.71	<0.64	N/A	N/A	0.64	H	UR
S09V000906	WA110820090010-003	7/30/2009	Heptachlor epoxide	1024-57-3	6.499	91.7	<0.71	<0.64	N/A	N/A	0.64	H	UR
S09V000906	WA110820090010-003	7/30/2009	Pentachlorophenol	87-86-5	6.499	23.6	<0.71	<0.64	N/A	N/A	0.64	H,a,s	UR
S09V000907	WA110820090010-004	7/30/2009	Aldrin	309-00-2	6.499	85.5	<0.71	<0.63	N/A	N/A	0.63	H	UR
S09V000907	WA110820090010-004	7/30/2009	alpha Hexachlorcyclohexane	319-84-6	6.499	139.9	<0.71	<0.63	N/A	N/A	0.63	H, a	UR
S09V000907	WA110820090010-004	7/30/2009	beta Hexachlorocyclohexane	319-85-7	6.499	202.7	<0.71	19.6	N/A	N/A	0.63	H, a	J
S09V000907	WA110820090010-004	7/30/2009	delta Hexachlorocyclohexane	319-86-8	6.499	281.8	<0.71	<0.63	N/A	N/A	0.63	H, a	UR
S09V000907	WA110820090010-004	7/30/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	6.499	99.9	<0.71	<0.63	N/A	N/A	0.63	H	UR
S09V000907	WA110820090010-004	7/30/2009	Chlordane (total mixture)	57-74-9	6.499	N/A	<35.57	<31.36	N/A	N/A	31.36	H,a,s	UR
S09V000907	WA110820090010-004	7/30/2009	DDT	50-29-3	6.499	99.6	<0.71	<0.63	N/A	N/A	0.63	H	UR
S09V000907	WA110820090010-004	7/30/2009	DDD	72-54-8	6.499	95.9	<0.71	<0.63	N/A	N/A	0.63	H	UR
S09V000907	WA110820090010-004	7/30/2009	DDE	72-55-9	6.499	82.0	<0.71	<0.63	N/A	N/A	0.63	H	UR
S09V000907	WA110820090010-004	7/30/2009	Dieldrin	60-57-1	6.499	100.2	<0.71	<0.63	N/A	N/A	0.63	H	UR
S09V000907	WA110820090010-004	7/30/2009	Endrin	72-20-8	6.499	51.7	<0.71	<0.63	N/A	N/A	0.63	H	UR
S09V000907	WA110820090010-004	7/30/2009	Hexachlorobenzene	118-74-1	6.499	131.7	<0.71	<0.63	N/A	N/A	0.63	H, a	UR
S09V000907	WA110820090010-004	7/30/2009	Heptachlor	76-44-8	6.499	102.3	<0.71	<0.63	N/A	N/A	0.63	H	UR
S09V000907	WA110820090010-004	7/30/2009	Heptachlor epoxide	1024-57-3	6.499	91.7	<0.71	<0.63	N/A	N/A	0.63	H	UR
S09V000907	WA110820090010-004	7/30/2009	Pentachlorophenol	87-86-5	6.499	23.6	<0.71	<0.63	N/A	N/A	0.63	H,a,s	UR

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RJ Lee Group Project: WA110820090010
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Client Project: Vadose
Lab Group No.: 20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V000908	WA110820090010-005	7/30/2009	Aldrin	309-00-2	5.609	85.5	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V000908	WA110820090010-005	7/30/2009	alpha Hexachlorcyclohexane	319-84-6	5.609	139.9	<0.71	<0.73	N/A	N/A	0.73	H, a	UR
S09V000908	WA110820090010-005	7/30/2009	beta Hexachlorocyclohexane	319-85-7	5.609	202.7	<0.71	22.4	N/A	N/A	0.73	H, a	J
S09V000908	WA110820090010-005	7/30/2009	delta Hexachlorocyclohexane	319-86-8	5.609	281.8	<0.71	<0.73	N/A	N/A	0.73	H, a	UR
S09V000908	WA110820090010-005	7/30/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.609	99.9	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V000908	WA110820090010-005	7/30/2009	Chlordane (total mixture)	57-74-9	5.609	N/A	<35.57	<36.58	N/A	N/A	36.58	H,a,s	UR
S09V000908	WA110820090010-005	7/30/2009	DDT	50-29-3	5.609	99.6	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V000908	WA110820090010-005	7/30/2009	DDD	72-54-8	5.609	95.9	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V000908	WA110820090010-005	7/30/2009	DDE	72-55-9	5.609	82.0	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V000908	WA110820090010-005	7/30/2009	Dieldrin	60-57-1	5.609	100.2	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V000908	WA110820090010-005	7/30/2009	Endrin	72-20-8	5.609	51.7	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V000908	WA110820090010-005	7/30/2009	Hexachlorobenzene	118-74-1	5.609	131.7	<0.71	<0.73	N/A	N/A	0.73	H, a	UR
S09V000908	WA110820090010-005	7/30/2009	Heptachlor	76-44-8	5.609	102.3	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V000908	WA110820090010-005	7/30/2009	Heptachlor epoxide	1024-57-3	5.609	91.7	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V000908	WA110820090010-005	7/30/2009	Pentachlorophenol	87-86-5	5.609	23.6	<0.71	<0.73	N/A	N/A	0.73	H,a,s	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

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9-13-2010

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Tel: (509) 545-4989 | Fax: (509) 544-6011

Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110820090010
Address:	2440 Stevens Center	Samples Received:	08/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/16/10
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in acordance with ISO 17025 guidelines, and holds limited scopes of accreditation under EPA ID WA01195, NY NELAP Lab Code 11829, CA ELAP Certificate 2574, WA DOE Lab ID C1928, MD DHMH Certificate 312, and LELAP Certificate 04121, OR ORELAP ID WA200005. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or th the sample(s) as received by the laboratory. Quality control data is available upon request.

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Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA180820090011
Address:	2440 Stevens Center	Samples Received:	08/18/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/16/09
Telephone:	509-372-1945	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V001189	WA180820090011-001	8/11/2009	Aldrin	309-00-2	5.387	8.5	<0.71	<0.77	N/A	N/A	0.77	H	UR
S09V001189	WA180820090011-001	8/11/2009	alpha Hexachlorcyclohexane	319-84-6	5.387	6996.6	<0.71	<0.77	N/A	N/A	0.77	H, a	UR
S09V001189	WA180820090011-001	8/11/2009	beta Hexachlorocyclohexane	319-85-7	5.387	10134.2	<0.71	25.3	N/A	N/A	0.77	H, a	J
S09V001189	WA180820090011-001	8/11/2009	delta Hexachlorocyclohexane	319-86-8	5.387	14089.8	<0.71	<0.77	N/A	N/A	0.77	H, a	UR
S09V001189	WA180820090011-001	8/11/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.387	4995.0	<0.71	<0.77	N/A	N/A	0.77	H	UR
S09V001189	WA180820090011-001	8/11/2009	Chlordane (total mixture)	57-74-9	5.387	N/A	<35.57	<38.35	N/A	N/A	38.35	H, a, s	UR
S09V001189	WA180820090011-001	8/11/2009	DDT	50-29-3	5.387	4979.0	<0.71	<0.77	N/A	N/A	0.77	H	UR
S09V001189	WA180820090011-001	8/11/2009	DDD	72-54-8	5.387	4794.3	<0.71	<0.77	N/A	N/A	0.77	H	UR
S09V001189	WA180820090011-001	8/11/2009	DDE	72-55-9	5.387	4098.0	<0.71	<0.77	N/A	N/A	0.77	H	UR
S09V001189	WA180820090011-001	8/11/2009	Dieldrin	60-57-1	5.387	5011.7	<0.71	<0.77	N/A	N/A	0.77	H	UR
S09V001189	WA180820090011-001	8/11/2009	Endrin	72-20-8	5.387	2585.1	<0.71	<0.77	N/A	N/A	0.77	H	UR
S09V001189	WA180820090011-001	8/11/2009	Hexachlorobenzene	118-74-1	5.387	6582.9	<0.71	<0.77	N/A	N/A	0.77	H, a	UR
S09V001189	WA180820090011-001	8/11/2009	Heptachlor	76-44-8	5.387	5113.0	<0.71	<0.77	N/A	N/A	0.77	H	UR
S09V001189	WA180820090011-001	8/11/2009	Heptachlor epoxide	1024-57-3	5.387	4585.1	<0.71	<0.77	N/A	N/A	0.77	H	UR
S09V001189	WA180820090011-001	8/11/2009	Pentachlorophenol	87-86-5	5.387	1180.1	<0.71	<0.77	N/A	N/A	0.77	H, a	UR
S09V001190	WA180820090011-002	8/11/2009	Aldrin	309-00-2	5.470	8.5	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001190	WA180820090011-002	8/11/2009	alpha Hexachlorcyclohexane	319-84-6	5.470	6996.6	<0.71	<0.76	N/A	N/A	0.76	H, a	UR
S09V001190	WA180820090011-002	8/11/2009	beta Hexachlorocyclohexane	319-85-7	5.470	10134.2	<0.71	21.3	N/A	N/A	0.76	H, a	J
S09V001190	WA180820090011-002	8/11/2009	delta Hexachlorocyclohexane	319-86-8	5.470	14089.8	<0.71	<0.76	N/A	N/A	0.76	H, a	UR
S09V001190	WA180820090011-002	8/11/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.470	4995.0	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001190	WA180820090011-002	8/11/2009	Chlordane (total mixture)	57-74-9	5.470	N/A	<35.57	<37.77	N/A	N/A	37.77	H, a, s	UR
S09V001190	WA180820090011-002	8/11/2009	DDT	50-29-3	5.470	4979.0	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001190	WA180820090011-002	8/11/2009	DDD	72-54-8	5.470	4794.3	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001190	WA180820090011-002	8/11/2009	DDE	72-55-9	5.470	4098.0	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001190	WA180820090011-002	8/11/2009	Dieldrin	60-57-1	5.470	5011.7	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001190	WA180820090011-002	8/11/2009	Endrin	72-20-8	5.470	2585.1	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001190	WA180820090011-002	8/11/2009	Hexachlorobenzene	118-74-1	5.470	6582.9	<0.71	<0.76	N/A	N/A	0.76	H, a	UR
S09V001190	WA180820090011-002	8/11/2009	Heptachlor	76-44-8	5.470	5113.0	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001190	WA180820090011-002	8/11/2009	Heptachlor epoxide	1024-57-3	5.470	4585.1	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001190	WA180820090011-002	8/11/2009	Pentachlorophenol	87-86-5	5.470	1180.1	<0.71	<0.76	N/A	N/A	0.76	H, a	UR

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Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA180820090011
Address:	2440 Stevens Center	Samples Received:	08/18/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/16/09
Telephone:	509-372-1945	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V001191	WA180820090011-003	8/11/2009	Aldrin	309-00-2	5.392	8.5	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001191	WA180820090011-003	8/11/2009	alpha Hexachlorcyclohexane	319-84-6	5.392	6996.6	<0.71	<0.76	N/A	N/A	0.76	H, a	UR
S09V001191	WA180820090011-003	8/11/2009	beta Hexachlorocyclohexane	319-85-7	5.392	10134.2	<0.71	23.2	N/A	N/A	0.76	H, a	J
S09V001191	WA180820090011-003	8/11/2009	delta Hexachlorocyclohexane	319-86-8	5.392	14089.8	<0.71	<0.76	N/A	N/A	0.76	H, a	UR
S09V001191	WA180820090011-003	8/11/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.392	4995.0	<0.71	5.1	N/A	N/A	0.76	H	J
S09V001191	WA180820090011-003	8/11/2009	Chlordane (total mixture)	57-74-9	5.392	N/A	<35.57	<38.1	N/A	N/A	38.1	H, a, s	UR
S09V001191	WA180820090011-003	8/11/2009	DDT	50-29-3	5.392	4979.0	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001191	WA180820090011-003	8/11/2009	DDD	72-54-8	5.392	4794.3	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001191	WA180820090011-003	8/11/2009	DDE	72-55-9	5.392	4098.0	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001191	WA180820090011-003	8/11/2009	Dieldrin	60-57-1	5.392	5011.7	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001191	WA180820090011-003	8/11/2009	Endrin	72-20-8	5.392	2585.1	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001191	WA180820090011-003	8/11/2009	Hexachlorobenzene	118-74-1	5.392	6582.9	<0.71	<0.76	N/A	N/A	0.76	H, a	UR
S09V001191	WA180820090011-003	8/11/2009	Heptachlor	76-44-8	5.392	5113.0	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001191	WA180820090011-003	8/11/2009	Heptachlor epoxide	1024-57-3	5.392	4585.1	<0.71	<0.76	N/A	N/A	0.76	H	UR
S09V001191	WA180820090011-003	8/11/2009	Pentachlorophenol	87-86-5	5.392	1180.1	<0.71	<0.76	N/A	N/A	0.76	H, a	UR
S09V001072	WA180820090011-004	8/10/2009	Aldrin	309-00-2	5.377	8.5	<0.71	<0.75	<0.75	N/A	0.75	H	UR
S09V001072	WA180820090011-004	8/10/2009	alpha Hexachlorcyclohexane	319-84-6	5.377	6996.6	<0.71	<0.75	N/A	N/A	0.75	H, a	UR
S09V001072	WA180820090011-004	8/10/2009	beta Hexachlorocyclohexane	319-85-7	5.377	10134.2	<0.71	25.2	25.8	2.52	0.75	H, a	J
S09V001072	WA180820090011-004	8/10/2009	delta Hexachlorocyclohexane	319-86-8	5.377	14089.8	<0.71	<0.75	N/A	N/A	0.75	H, a	UR
S09V001072	WA180820090011-004	8/10/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.377	4995.0	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V001072	WA180820090011-004	8/10/2009	Chlordane (total mixture)	57-74-9	5.377	N/A	<35.57	<37.5	N/A	N/A	37.5	H, a, s	UR
S09V001072	WA180820090011-004	8/10/2009	DDT	50-29-3	5.377	4979.0	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V001072	WA180820090011-004	8/10/2009	DDD	72-54-8	5.377	4794.3	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V001072	WA180820090011-004	8/10/2009	DDE	72-55-9	5.377	4098.0	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V001072	WA180820090011-004	8/10/2009	Dieldrin	60-57-1	5.377	5011.7	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V001072	WA180820090011-004	8/10/2009	Endrin	72-20-8	5.377	2585.1	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V001072	WA180820090011-004	8/10/2009	Hexachlorobenzene	118-74-1	5.377	6582.9	<0.71	<0.75	N/A	N/A	0.75	H, a	UR
S09V001072	WA180820090011-004	8/10/2009	Heptachlor	76-44-8	5.377	5113.0	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V001072	WA180820090011-004	8/10/2009	Heptachlor epoxide	1024-57-3	5.377	4585.1	<0.71	<0.75	N/A	N/A	0.75	H	UR
S09V001072	WA180820090011-004	8/10/2009	Pentachlorophenol	87-86-5	5.377	1180.1	<0.71	<0.75	N/A	N/A	0.75	H, a	UR

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Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA180820090011
Address:	2440 Stevens Center	Samples Received:	08/18/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/16/09
Telephone:	509-372-1945	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V001073	WA180820090011-005	8/10/2009	Aldrin	309-00-2	5.557	8.5	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V001073	WA180820090011-005	8/10/2009	alpha Hexachlorcyclohexane	319-84-6	5.557	6996.6	<0.71	<0.73	N/A	N/A	0.73	H, a	UR
S09V001073	WA180820090011-005	8/10/2009	beta Hexachlorocyclohexane	319-85-7	5.557	10134.2	<0.71	22.4	N/A	N/A	0.73	H, a	J
S09V001073	WA180820090011-005	8/10/2009	delta Hexachlorocyclohexane	319-86-8	5.557	14089.8	<0.71	<0.73	N/A	N/A	0.73	H, a	UR
S09V001073	WA180820090011-005	8/10/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.557	4995.0	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V001073	WA180820090011-005	8/10/2009	Chlordane (total mixture)	57-74-9	5.557	N/A	<35.57	<36.28	N/A	N/A	36.28	H, a, s	UR
S09V001073	WA180820090011-005	8/10/2009	DDT	50-29-3	5.557	4979.0	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V001073	WA180820090011-005	8/10/2009	DDD	72-54-8	5.557	4794.3	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V001073	WA180820090011-005	8/10/2009	DDE	72-55-9	5.557	4098.0	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V001073	WA180820090011-005	8/10/2009	Dieldrin	60-57-1	5.557	5011.7	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V001073	WA180820090011-005	8/10/2009	Endrin	72-20-8	5.557	2585.1	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V001073	WA180820090011-005	8/10/2009	Hexachlorobenzene	118-74-1	5.557	6582.9	<0.71	<0.73	N/A	N/A	0.73	H, a	UR
S09V001073	WA180820090011-005	8/10/2009	Heptachlor	76-44-8	5.557	5113.0	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V001073	WA180820090011-005	8/10/2009	Heptachlor epoxide	1024-57-3	5.557	4585.1	<0.71	<0.73	N/A	N/A	0.73	H	UR
S09V001073	WA180820090011-005	8/10/2009	Pentachlorophenol	87-86-5	5.557	1180.1	<0.71	<0.73	N/A	N/A	0.73	H, a	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

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Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
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I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA180820090011
Address:	2440 Stevens Center	Samples Received:	08/18/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/16/09
Telephone:	509-372-1945	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

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Pesticides by EPA 8081

Client: Washington River Protection Solutions
Address: 2440 Stevens Center
Richland, WA 99352 MSIN T6-02
Attention: Steve McKinney
Telephone: 509-372-1945
Fax: 509-372-1878

RJ Lee Group Project WA060120100001
Samples Received: 01/06/10
Report Date: 03/11/10
Prep Date: 02/05/10
Analysis Date: 2/7/10-2/10/10
Client Project: Vadose
Lab Group No.: 20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V001642	WA060120100001-001	12/29/2009	Aldrin	309-00-2	6.004	82.8	<0.79	<0.78	N/A	N/A	0.78	H,s	UR
S09V001642	WA060120100001-001	12/29/2009	alpha Hexachlorcyclohexane	319-84-6	6.004	93.9	<0.79	<0.78	N/A	N/A	0.78	H,a,s	UR
S09V001642	WA060120100001-001	12/29/2009	beta Hexachlorocyclohexane	319-85-7	6.004	205.0	<0.79	<0.78	N/A	N/A	0.78	H,a,s	UR
S09V001642	WA060120100001-001	12/29/2009	delta Hexachlorocyclohexane	319-86-8	6.004	100.6	<0.79	<0.78	N/A	N/A	0.78	H,a,s	UR
S09V001642	WA060120100001-001	12/29/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	6.004	126.1	<0.79	<0.78	N/A	N/A	0.78	H	UR
S09V001642	WA060120100001-001	12/29/2009	Chlordane (total mixture)	57-74-9	6.004	N/A	<39.28	<39.23	N/A	N/A	39.23	H,a,s	UR
S09V001642	WA060120100001-001	12/29/2009	DDT	50-29-3	6.004	102.6	<0.79	<0.78	N/A	N/A	0.78	H	UR
S09V001642	WA060120100001-001	12/29/2009	DDD	72-54-8	6.004	94.8	<0.79	<0.78	N/A	N/A	0.78	H	UR
S09V001642	WA060120100001-001	12/29/2009	DDE	72-55-9	6.004	75.6	<0.79	<0.78	N/A	N/A	0.78	H,s	UR
S09V001642	WA060120100001-001	12/29/2009	Dieldrin	60-57-1	6.004	101.1	<0.79	<0.78	N/A	N/A	0.78	H	UR
S09V001642	WA060120100001-001	12/29/2009	Endrin	72-20-8	6.004	104.5	<0.79	<0.78	N/A	N/A	0.78	H	UR
S09V001642	WA060120100001-001	12/29/2009	Hexachlorobenzene	118-74-1	6.004	83.2	<0.79	<0.78	N/A	N/A	0.78	H,s	UR
S09V001642	WA060120100001-001	12/29/2009	Heptachlor	76-44-8	6.004	105.4	<0.79	<0.78	N/A	N/A	0.78	H,s	UR
S09V001642	WA060120100001-001	12/29/2009	Heptachlor epoxide	1024-57-3	6.004	84.3	<0.79	<0.78	N/A	N/A	0.78	H,s	UR
S09V001642	WA060120100001-001	12/29/2009	Pentachlorophenol	87-86-5	6.004	31.8	<0.79	<0.78	N/A	N/A	0.78	H,a, s	UR
S09V001657	WA060120100001-002	12/29/2009	Aldrin	309-00-2	5.527	82.8	<0.79	<0.76	N/A	N/A	0.76	H,s	UR
S09V001657	WA060120100001-002	12/29/2009	alpha Hexachlorcyclohexane	319-84-6	5.527	93.9	<0.79	<0.76	N/A	N/A	0.76	H,a,s	UR
S09V001657	WA060120100001-002	12/29/2009	beta Hexachlorocyclohexane	319-85-7	5.527	205.0	<0.79	<0.76	N/A	N/A	0.76	H,a,s	UR
S09V001657	WA060120100001-002	12/29/2009	delta Hexachlorocyclohexane	319-86-8	5.527	100.6	<0.79	<0.76	N/A	N/A	0.76	H,a,s	UR
S09V001657	WA060120100001-002	12/29/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.527	126.1	<0.79	<0.76	N/A	N/A	0.76	H	UR
S09V001657	WA060120100001-002	12/29/2009	Chlordane (total mixture)	5103-71-9	5.527	N/A	<39.28	<38.08	N/A	N/A	38.08	H,a,s	UR
S09V001657	WA060120100001-002	12/29/2009	DDT	50-29-3	5.527	102.6	<0.79	<0.76	N/A	N/A	0.76	H	UR
S09V001657	WA060120100001-002	12/29/2009	DDD	72-54-8	5.527	94.8	<0.79	<0.76	N/A	N/A	0.76	H	UR
S09V001657	WA060120100001-002	12/29/2009	DDE	72-55-9	5.527	75.6	<0.79	<0.76	N/A	N/A	0.76	H,s	UR
S09V001657	WA060120100001-002	12/29/2009	Dieldrin	60-57-1	5.527	101.1	<0.79	<0.76	N/A	N/A	0.76	H	UR
S09V001657	WA060120100001-002	12/29/2009	Endrin	72-20-8	5.527	104.5	<0.79	<0.76	N/A	N/A	0.76	H	UR
S09V001657	WA060120100001-002	12/29/2009	Hexachlorobenzene	118-74-1	5.527	83.2	<0.79	<0.76	N/A	N/A	0.76	H,s	UR
S09V001657	WA060120100001-002	12/29/2009	Heptachlor	76-44-8	5.527	105.4	<0.79	<0.76	N/A	N/A	0.76	H,s	UR
S09V001657	WA060120100001-002	12/29/2009	Heptachlor epoxide	1024-57-3	5.527	84.3	<0.79	<0.76	N/A	N/A	0.76	H,s	UR
S09V001657	WA060120100001-002	12/29/2009	Pentachlorophenol	87-86-5	5.527	31.8	<0.79	<0.76	N/A	N/A	0.76	H,a, s	UR

LS
9-13-2010

RJ Lee*Group*, Inc.|Center for Laboratory Sciences
2711 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6011

Pesticides by EPA 8081

Client:	Washington River Protection Solutions	RJ Lee Group Project	WA060120100001
Address:	2440 Stevens Center	Samples Received:	01/06/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/05/10
Telephone:	509-372-1945	Analysis Date:	2/7/10-2/10/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier	
S09V001687	WA060120100001-003	12/30/2009	Aldrin	309-00-2	5.689	82.8	<0.79	<0.74	<0.74	N/A	0.74	H,s	UR
S09V001687	WA060120100001-003	12/30/2009	alpha Hexachlorcyclohexane	319-84-6	5.689	93.9	<0.79	<0.74	N/A	N/A	0.74	H,a,s	UR
S09V001687	WA060120100001-003	12/30/2009	beta Hexachlorocyclohexane	319-85-7	5.689	205.0	<0.79	<0.74	N/A	N/A	0.74	H,a,s	UR
S09V001687	WA060120100001-003	12/30/2009	delta Hexachlorocyclohexane	319-86-8	5.689	100.6	<0.79	<0.74	N/A	N/A	0.74	H,a,s	UR
S09V001687	WA060120100001-003	12/30/2009	gamma Hexachlorocyclohexane (Lindane)	58-89-9	5.689	126.1	<0.79	<0.74	N/A	N/A	0.74	H	UR
S09V001687	WA060120100001-003	12/30/2009	Chlordane (total mixture)	57-74-9	5.689	N/A	<39.28	<36.82	N/A	N/A	36.82	H,a,s	UR
S09V001687	WA060120100001-003	12/30/2009	DDT	50-29-3	5.689	102.6	<0.79	<0.74	N/A	N/A	0.74	H	UR
S09V001687	WA060120100001-003	12/30/2009	DDD	72-54-8	5.689	94.8	<0.79	<0.74	N/A	N/A	0.74	H	UR
S09V001687	WA060120100001-003	12/30/2009	DDE	72-55-9	5.689	75.6	<0.79	<0.74	N/A	N/A	0.74	H,s	UR
S09V001687	WA060120100001-003	12/30/2009	Dieldrin	60-57-1	5.689	101.1	<0.79	<0.74	N/A	N/A	0.74	H	UR
S09V001687	WA060120100001-003	12/30/2009	Endrin	72-20-8	5.689	104.5	<0.79	<0.74	N/A	N/A	0.74	H	UR
S09V001687	WA060120100001-003	12/30/2009	Hexachlorobenzene	118-74-1	5.689	83.2	<0.79	<0.74	N/A	N/A	0.74	H,s	UR
S09V001687	WA060120100001-003	12/30/2009	Heptachlor	76-44-8	5.689	105.4	<0.79	<0.74	N/A	N/A	0.74	H,s	UR
S09V001687	WA060120100001-003	12/30/2009	Heptachlor epoxide	1024-57-3	5.689	84.3	<0.79	<0.74	N/A	N/A	0.74	H,s	UR
S09V001687	WA060120100001-003	12/30/2009	Pentachlorophenol	87-86-5	5.689	31.8	<0.79	<0.74	N/A	N/A	0.74	H,a, s	UR

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

LS
9-13-2010

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in acordance with ISO 17025 guidelines, and holds limited scopes of accreditation under EPA ID WA01195, NY NELAP Lab Code 11829, CA ELAP Certificate 2574, WA DOE Lab ID C1928, MD DHMH Certificate 312, and LELAP Certificate 04121, OR ORELAP ID WA200005. This report may not be used ot claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or th the sample(s) as received by the laboratory. Quality control data is available upon request.

Appendix 4

Laboratory Narrative and Chain-of-Custody Documentation

CLS
Center for Laboratory Sciences

RJ LeeGroup, Inc. | Center for Laboratory Sciences
2710 North 20th Avenue, Pasco, WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

February 11, 2010

Washington River Protection Solutions
Attention: Steve McKinney
2440 Stevens Center
Richland, WA 99352 MSIN T6-02

Enclosed is the final report for the Vadose Soil Samples and equipment Rinsates for C-Farm. Samples were delivered to RJLee Group, Center for Laboratory Sciences (CLS) between April 2009 and January 2010. Samples were submitted to CLS and analyzed for Diesel Range Organics, Gasoline, Range Organics, Ethylene Glycol, Organochlorine Pesticides, Polychlorinated Biphenyls- Aroclors, Polychlorinated Biphenyls- Congeners, and Monobutyl and Dibutyl Phosphate.

The analysis of the Polychlorinated Biphenyls- Congeners was subcontracted to Test America Laboratories, Inc in Knoxville, TN. The analysis of Monobutyl and Dibutyl Phosphate was subcontracted to Southwest Research Institute in San Antonio, TX. Included in this report are the reports of analysis and supporting data package for each subcontracted analysis. The results for Mono and Dibutyl Phosphate have been corrected for dry weights on CLS's reports.

This report consists of ten sections, which includes Data Report Summaries, Analytical Reports, Chain of Custodies & Login Reports, Six Raw Data sections and Certificates of Analyses. A copy of this report in its entirety, along with the EDD will be delivered on a CD- Rom Disc.

The results provided in this report relate only to the items tested. Samples were received in acceptable conditions unless otherwise noted. This test report shall not be reproduced, except in full, without written approval of CLS.

This report has been reviewed and approved by the following individual:

Jonathan Kon — March 11, 2010
Jonathan Kon, Laboratory Manager — Date

If you have any questions, please feel free to contact Jonathan Kon at 509-545-4989 or email: jkon@rjlg.com.

Sample Group 20090161

DATA REPORT SUMMARY

Sample Set: **20090161**
Receipt Date: **April 21, 2009**
Collection Date(s): **April 14, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA210420090001**

CLS received one (1) sample for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on April 21, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA21042009001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA21042009001

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
All criteria were met

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
An Initial Calibration Verification was not run for this sample group. A second source standard was not run either. Therefore the ICV sample requirements were not within acceptable limits for this sample group. All samples have been flagged with an "I" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair, however there was a failure of the Matrix Duplicate RPD (43.8%). A "c" flag has been applied accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA21042009001, WA270420090001 and WA070520090005

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the closing CB which had compounds present. The initial CB was analyzed and there was a surrogate failure. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
Two sets of Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) pairs were analyzed. The LCS and LCSD recoveries for the first pair were not within the acceptable limits for the sample group (1.80% and 1.1% respectively). All samples have been flagged with an "a" accordingly. The second pair was within acceptable limits.

Duplicates (Relative percent difference +/-15%)
There was a RPD failure on the first LCS/LCSD pair (48.28%) however; the second LCS/LCSD pair was within the acceptable limits. The Matrix Duplicate analyzed within the analytical batch also passed RPD criteria.

Matrix Spike (+/-30%)
The Matrix Spike Sample was analyzed on sample WA27042009001-002 and was not within acceptable limits (38.6%). All affected samples have been flagged with an "s" accordingly.

Other Comments:

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090161

DATA REPORT SUMMARY

Sample Set: **20090161**
Receipt Date: **April 27, 2009**
Collection Date(s): **April 21 & 22, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA270420090001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on April 27, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA21042009001, WA270420090001 and WA070520090005

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the closing CB which had compounds present. The initial CB was analyzed and there was a surrogate failure. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
Two sets of Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) pairs were analyzed. The LCS and LCSD recoveries for the first pair were not within the acceptable limits for the sample group (1.80% and 1.1% respectively). All samples have been flagged with an "a" accordingly. The second pair was within acceptable limits.

Duplicates (Relative percent difference +/-15%)
There was a RPD failure on the first LCS/LCSD pair (48.28%) however; the second LCS/LCSD pair was within the acceptable limits. The Matrix Duplicate analyzed within the analytical batch also passed RPD criteria.

Matrix Spike (+/-30%)
The Matrix Spike Sample was analyzed on sample WA27042009001-002 and was not within acceptable limits (38.6%). All affected samples have been flagged with an "s" accordingly.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090161

DATA REPORT SUMMARY

Sample Set: **20090161**
Receipt Date: **May 7, 2009**
Collection Date(s): **April 30, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA070520090005**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on May 7, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA21042009001, WA270420090001 and WA070520090005

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the closing CB which had compounds present. The initial CB was analyzed and there was a surrogate failure. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
Two sets of Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) pairs were analyzed. The LCS and LCSD recoveries for the first pair were not within the acceptable limits for the sample group (1.80% and 1.1% respectively). All samples have been flagged with an "a" accordingly. The second pair was within acceptable limits.

Duplicates (Relative percent difference +/-15%)
There was a RPD failure on the first LCS/LCSD pair (48.28%) however; the second LCS/LCSD pair was within the acceptable limits. The Matrix Duplicate analyzed within the analytical batch also passed RPD criteria.

Matrix Spike (+/-30%)
The Matrix Spike Sample was analyzed on sample WA27042009001-002 and was not within acceptable limits (38.6%). All affected samples have been flagged with an "s" accordingly.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090329

DATA REPORT SUMMARY

Sample Set: **20090329**
Receipt Date: **May 21, 2009**
Collection Date(s): **May 13, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA210520090002**

CLS received one (1) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on May 21, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA210520090002, WA060820090014, and WA110820090010

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits. There is no internal standard present. All samples have been flagged with an "I" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090329

DATA REPORT SUMMARY

Sample Set: **20090329**
Receipt Date: **June 2, 2009**
Collection Date(s): **May 18 & 19, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA020620090001**

CLS received three (3) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 2, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA020620090001 and WA020620090002

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was evidence of compounds present in the blank samples greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (776%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was Evidence of compounds present in the blank sample greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures on the LCS/LCSD. Work order WA020620090001 and WA020620090002 were both run in the same analytical batch. However, the RPD on the sample (WA020620090002-002) Duplicate was not in acceptable limits (181%). Affected samples have been flagged with a "c" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090378

DATA REPORT SUMMARY

Sample Set:	**20090378**
Receipt Date:	**June 2, 2009**
Collection Date(s):	**May 21, 2009**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA020620090002**

CLS received two (2) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on June 2, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA020620090002, WA110620090003 and WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the second and closing CB which had compounds present. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (177.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair. Matrix Duplicates were analyzed on WA020620090002, WA110620090003 and WA220620090005. The Matrix Duplicate analyzed on sample WA220620090005-001 was not within acceptable limits (44.2%), however, the others were within limits. All affected samples have been flagged with an "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA020620090002 and WA110620090003

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
Matrix Spikes were analyzed and recoveries were within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA020620090001 and WA020620090002

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was evidence of compounds present in the blank samples greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (776%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was Evidence of compounds present in the blank sample greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures on the LCS/LCSD. Work order WA020620090001 and WA020620090002 were both run in the same analytical batch. However, the RPD on the sample (WA020620090002-002) Duplicate was not in acceptable limits (181%). Affected samples have been flagged with a "c" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pairs and Matrix Duplicates.

Matrix Spike (+/-30%)
A Matrix Spike for WA02062009002-002 was analyzed and recovery was not within the acceptance criteria. The sample was doubled spiked with surrogate and standard.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times

Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090378

DATA REPORT SUMMARY

Sample Set: **20090378**
Receipt Date: **June 9, 2009**
Collection Date(s): **June 1, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA110620090001**

CLS received one (1) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 9, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090365

DATA REPORT SUMMARY

Sample Set: **20090365**
Receipt Date: **June 11, 2009**
Collection Date(s): **June 4, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA110620090002**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 11, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090365

DATA REPORT SUMMARY

Sample Set:	**20090365**
Receipt Date:	**June 11, 2009**
Collection Date(s):	**June 3 & 4, 2009**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA110620090003**

CLS received two (2) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on June 11, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA020620090002, WA110620090003 and WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the second and closing CB which had compounds present. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (177.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair. Matrix Duplicates were analyzed on WA020620090002, WA110620090003 and WA220620090005. The Matrix Duplicate analyzed on sample WA220620090005-001 was not within acceptable limits (44.2%), however, the others were within limits.. All affected samples have been flagged with an "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA020620090002 and WA110620090003

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
Matrix Spikes were analyzed and recoveries were within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria except for Pentachlorophenol (15 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times

Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090365

DATA REPORT SUMMARY

Sample Set: **20090365**
Receipt Date: **June 15, 2009**
Collection Date(s): **June 9, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA150620090004**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 15, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090454

DATA REPORT SUMMARY

Sample Set: **20090454**
Receipt Date: **June 22, 2009**
Collection Date(s): **June 15, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA220620090005**

CLS received three (3) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on June 22, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA020620090002, WA110620090003 and WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the second and closing CB which had compounds present. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (177.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair. Matrix Duplicates were analyzed on WA020620090002, WA110620090003 and WA220620090005. The Matrix Duplicate analyzed on sample WA220620090005-001 was not within acceptable limits (44.2%), however, the others were within limits.. All affected samples have been flagged with an "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group, with the exception of the closing CV (72% recovery). Affected samples have been flagged with an "a" accordingly.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found not to be within acceptable limits (200%). A second Detection Level Standard was analyzed prior to the samples and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample

A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
There were several surrogate recovery failures for this analytical batch. WA22062009005-001, WA220620090005-001MD, WA220620090005-001MS, WA220620090005-002 and WA22062009005-003 have all been flagged with an "S" accordingly.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA220620090005 and WA200120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample

A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria except for Pentachlorophenol (35 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090575

DATA REPORT SUMMARY

Sample Set: **20090575**
Receipt Date: **August 6, 2009**
Collection Date(s): **August 3, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA060820090014**

CLS received two (2) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on August 3, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA060820090014 (liquid matrix) and WA110820090010 (solid matrix)

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was evidence of compounds present in the middle and closing blank samples greater than the quantitation limit. Affected samples have been flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found not to be within acceptable limits (163.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A soil Method blank and a liquid Method blank were analyzed. Both had evidence of compounds present in the blank sample greater than the quantitation limit. All affected samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
Two Laboratory Control Sample and Laboratory Control Sample Duplicate pairs (solid and liquid) were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There was no RPD failure of the LCS/LCSD (solid) pair or the LCS/LCSD (liquid). A Matrix Duplicate was analyzed on both WA110820090010 and WA060820090014. The RPDs for both were within the acceptable criteria.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on both WA110820090010 and WA060820090014. The spike recoveries for both were within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA060820090014

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was not within the acceptance criteria (66%). Affected samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA210520090002, WA060820090014 and WA110820090010

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits. There is no internal standard present. All samples have been flagged with an "I" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Other Comments:
Not Applicable

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times

Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were not within the acceptance criteria. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There was RPD failures of the LCS/LCSD pair. There were no RPD failures of the Matrix Duplicate. All samples have been flagged with an "a" and "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and the recovery was within the acceptance criteria.

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090575

DATA REPORT SUMMARY

Sample Set: **20090575**
Receipt Date: **August 11, 2009**
Collection Date(s): **July 30, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA110820090010**

CLS received five (5) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on August 11, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA060820090014 (liquid matrix) and WA110820090010 (solid matrix)

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was evidence of compounds present in the middle and closing blank samples greater than the quantitation limit. Affected samples have been flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was not analyzed.. All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A soil Method blank and a liquid Method blank were analyzed. Both had evidence of compounds present in the blank sample greater than the quantitation limit. All affected samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

Two Laboratory Control Sample and Laboratory Control Sample Duplicate pairs (solid and liquid) were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There was no RPD failure of the LCS/LCSD (solid) pair or the LCS/LCSD (liquid). A Matrix Duplicate was analyzed on both WA110820090010 and WA060820090014. The RPDs for both were within the acceptable criteria.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on both WA110820090010 and WA060820090014. The spike recoveries for both were within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA110820090010 and WA180820090011

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group with the exception of the middle and ending CCV. The affected samples have been flagged with an "a" accordingly.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on samples WA110820090010-001 and WA180820090011-004. The spike recovery for WA110820090010-001 was acceptable, however; recovery for WA180820090011-004 was not within the acceptance criteria (54%). The affected samples have been flagged with an "s" accordingly.

Other Comments:
There were several surrogate recovery failures for this analytical batch. All the samples for WA110820090010 and their duplicate and spike sample as well as all the samples for WA180820090011 and its duplicate and spike sample had recovery failures. All the samples have all been flagged with an "S" accordingly.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA210520090002, WA060820090014, and WA110820090010

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits. There is no internal standard present. All samples have been flagged with an "I" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for alpha Hexachlorcyclohexane (139.9%), beta Hexachlorocyclohexane (202.7%), delta Hexachlorocyclohexane (281%), and Pentachlorophenol (23.6 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.except for Pentachlorophenol (56 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Workorders contained in Analytical Batch

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090574

DATA REPORT SUMMARY

Sample Set: **20090574**
Receipt Date: **August 12, 2009**
Collection Date(s): **August 3 & 4, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA120820090018**

CLS received three (3) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 12, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090575

DATA REPORT SUMMARY

Sample Set: **20090575**
Receipt Date: **August 13, 2009**
Collection Date(s): **August 5, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA140820090001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 13, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090608

DATA REPORT SUMMARY

Sample Set:	**20090608**
Receipt Date:	**August 18, 2009**
Collection Date(s):	**August 10 & 11, 2009**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA180820090011**

CLS received five (5) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on August 18, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA180820090011

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found not to be within acceptable limits (163.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" flag accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA110820090010 and WA180820090011

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group with the exception of the middle and ending CCV. The affected samples have been flagged with an "a" accordingly.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on samples WA110820090010-001 and WA180820090011-004. The spike recovery for WA110820090010-001 was acceptable, however; recovery for WA180820090011-004 was not within the acceptance criteria (54%). The affected samples have been flagged with an "s" accordingly.

Other Comments:
There were several surrogate recovery failures for this analytical batch. All the samples for WA110820090010 and their duplicate and spike sample as well as all the samples for WA180820090011 and its duplicate and spike sample had recovery failures. All the samples have all been flagged with an "S" accordingly.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for alpha Hexachlorocyclohexane (139.9%), beta Hexachlorocyclohexane (202.7%), delta Hexachlorocyclohexane (281%), and Pentachlorophenol (23.6 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090608

DATA REPORT SUMMARY

Sample Set: **20090608**
Receipt Date: **August 19, 2009**
Collection Date(s): **August 12 & 13, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA190820090001**

CLS received three (3) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 19, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090608

DATA REPORT SUMMARY

Sample Set: **20090608**
Receipt Date: **August 25, 2009**
Collection Date(s): **August 17, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA260820090001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 25, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA260820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
TThe BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (0%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090878

DATA REPORT SUMMARY

Sample Set:	**20090878**
Receipt Date:	**January 6, 2010**
Collection Date(s):	**December 29 & 30, 2009**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA060120100001**

CLS received three (3) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on January 6, 2010.

Diesel Range Organics

Workorders contained in Analytical Batch
WA060120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA060120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)

There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA060120100001 and WA130120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for alpha Hexachlorcyclohexane (139.9%), beta Hexachlorocyclohexane (202.7%), delta Hexachlorocyclohexane (281%), and Pentachlorophenol (23.6 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria except for Hexachlorobenzene (61%), Aldrin (56%), alpha Hexachlorocyclohexane(68%), delta

Hexachlorocyclohexane(68 %),DDE(65%),Heptachlor(67%), Heptachlor Epoxide(62%), and Pentachlorophenol(345 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times

Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090877

DATA REPORT SUMMARY

Sample Set:	**20090877**
Receipt Date:	**January 13, 2010**
Collection Date(s):	**January 5 & 7, 2010**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA130120100001**

CLS received three (3) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on January 13, 2010.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA060120100001 and WA130120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090878

DATA REPORT SUMMARY

Sample Set: **20090878**
Receipt Date: **January 20, 2010**
Collection Date(s): **January 14 & 15, 2010**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate**
RJLG ID: **WA200110100001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on January 20, 2010.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA220620090005 and WA200120100001

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090878

DATA REPORT SUMMARY

Sample Set: **20090878**
Receipt Date: **January 25, 2010**
Collection Date(s): **January 19, 2010**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate**
RJLG ID: **WA250120100004**

CLS received one (1) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis January 25, 2010.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA250120100004

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

VVA2\0720090001

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090161

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE		
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
	S09V000227	VA	4/20/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
RTSteele RTSteele	4-21-09 0930	R.T. Sickle	4-21-09 0930
R.T. Sickle	4-21-09 1240	Sterling Shaw	4-21-09 1240

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V09-002-015

COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C6392, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 56	ACTUAL SAMPLE DEPTH: 14'-15'	COA: 301483ES10
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.

PRICE CODE: 8P

AIR QUALITY: ☐

DATA TURNAROUND: 75 Days / 75 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~1~~ 2 4-14-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		Lab Sample ID
B1YT71	SOIL	4-14-09	1300	✓	S09V000148 liner A
					S09V000149 liner B

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-14-09 1515	Tim Gollock	4-14-09 1515

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

only two liners were filled due to material

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA07052009 0005

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090161
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YT80	S09V000230	VA	5/6/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
B1YT83	S09V000231	VA	5/6/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Stecke	R Stecke		5-7-09 0950	R Ellingsworth	R Ellingsworth		5-7-09 0950
Relinquished By			Date/Time	Received By			Date/Time
RD Ellingsworth CHPRC	R Ellingsworth		MAY 07 2009 1437	Sterling Shaw	Sterling Shaw		0237 MAY 07 2009
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-024	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6392, I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg61	42-44'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
20090160

PRESERVATION	Cool~6C												
TYPE OF CONTAINER	Liner												
NO. OF CONTAINER(S)	3												
VOLUME	160g												
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS												

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME											
B1YT80	SOIL	4-30-09	~~1015~~ ~~1015~~ 4/30 4-30-09	✓										
S09U000160														
S09V000161														
S09V000162														

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane, Larry Rosane	4-30-09/ 1510	Tim Gallock Tim Gallock	4/30/09 1510
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-024	PAGE 2 OF 2
COLLECTOR Rosalie, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 61	ACTUAL SAMPLE DEPTH 42'-44'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-027	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6392, I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-5 pg 61	56-58'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
20090160

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT83 164	SOIL	4-30-09	1415	✓
S09V000175				
S09V000165				
S09V000166				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne, Larry Rosanne	4-30-09/1510	Tim Tech Tim Tech	4/30/09 1510
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-027	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 p161	ACTUAL SAMPLE DEPTH 56'-58'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA2704200900 01

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090161
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
	S09V000228	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
	S09V000229	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	R.F. Steele	[signature]	4-27-09 10:00		R. Ellingsworth	[signature]	4-27-09 10:00
Relinquished By	R Ellingsworth	[signature]	4-27-09 1246	Received By	[signature]	Jim Sean	04/27/09 1246
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA21052009 0002

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090329
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES GRP-07-003 Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTB1	S09V000457	VA	5/21/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Tim Elock	Tim Elock	Tim Elock	5-21-09 1053	SCOTT HAMAKER	Scott Hamaker	Scott Hamaker	5/21/09 1053
SCOTT HAMAKER	Scott Hamaker	Scott Hamaker	5/21/09 1257	Joe Seam	Joe Seam	Joe Seam	05/21/09 1257

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-045	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne, Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-526-3 pg 65	19.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE
54°

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~2~~ 2 1/2 SAF 5-13-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTB1	SOIL	5-13-09	0930
S09V000 398			
S09V000 399	S09V000401		
S09V000 400			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Tony Rosanne	5-13-09/ 1030	RtSteele RtSteele	5-13-09 1030
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

2 1/2 liner filled (lack of soil)

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-045	PAGE 2 OF 2
COLLECTOR Rosalie Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6404, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 65	ACTUAL SAMPLE DEPTH 19.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

6JA020620090001

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090329

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE		
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTB4	S09V000458	VA	5/20/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
B1YTB7	S09V000459	VA	5/20/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
B1YTC0	S09V000460	VA	5/20/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Verified by TJW 04/02/09

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R F Steele / R F Steele	6.2.09 10 30	R Ellingsworth / R Ellingsworth	6-2-09 10 30
R Ellingsworth / R Ellingsworth	6-2-09 1332	Joe Sears / Joe Sears	1332 6-2-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-048	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Karen White	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-005	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 Pg 66	31' to 33'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTB4	SOIL	5-18-09	0920	✓
S09V000413 (a)				
S09V000414 (b)				
S09V000415 (c)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kinch, [signature]	5-18-09 1455	TM McGlloch [signature]	5-18-09 1455
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-051	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kausk, White	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P66	42' to 44'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTB7	SOIL	5-18-09	1140
S09V000430	(a)		
S09V000431	(b)		
S09V000432	(c)		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kausk	5-18-09 1455	Tim Gilbert	5-18-09 1455
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-054	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 67	57'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTC0	SOIL	5-19-09	0945	✓
S09V000445				
S09V000446				
S09V000447				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-19-09 / 1330	TM Colloch	5-19-09 1330
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA0206200 70002

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE			C.O.C. No. 20090378
			Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 45 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTH1	S09V000635	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP, PCB, HC1D, GRO, DRO, PESTICIDES	COOL
B1YTH3	S09V000651	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP, PCB, HC1D, GRO, DRO, PESTICIDES	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

verified by TJW & JS on 06/02/09

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R. Steele	6.2.09 10 30	R Ellingsworth	6-2-09 10 30
R Ellingsworth	6-2-09 1332	Joe Seors	6-2-09 1332

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-094	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6400; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 68	5-7'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

Q0090677

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTH1	SOIL	5-21-09	09:25	✓
S09V000623				
S09V000624				
S09V000625				

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	5-21-09/1322	Tut Tut Tut Tut	5-21-09 1322
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-097	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6400; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 68	10'-12'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

Q0090377

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTH3	SOIL	5-21-09	1021
S09V000639			
S09V000640			
S09V000641			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	5-21-09/1322	Tim Flood Tim Flood	5-21-09 1322
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1106200900001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090378
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: NO	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: ~~24 HOURS~~ 60 days MA 06/11/09 phone conv. to S. McKinney from J. Sears	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTH6	S09V000667	VA	6/9/09	n/a	500mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leslie Diaz Leslie Diaz	6/9/09 1045	KB Hulse KB Hulse	6/9/09 1045
KB Hulse KB Hulse	6-9-09	Joe Sears Joe Sears	06/09/09 1456

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-100	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kawa, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6400; I-003	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3	132.5 to 134.5	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
20090377

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

Sample Received via a cooler on ice. JS 06/05/09 1452

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTH6	SOIL	6-1-09	1135
S09N000 655 A			
656 B			
657 C			

Pag 2

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kawa	6-1-09 1400	RHSteele	6.1.09 1400

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-100	PAGE 2 OF 2
COLLECTOR Karen Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6400; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 P56	ACTUAL SAMPLE DEPTH 132' To 134.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

WA1106200900002

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090365
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: NO Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: ~~24 HOURS~~ 60 days 06/11/09 Phone Conv to S. McKinney	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTD8	S09V000570	VA	6/10/09	n/a	~~500~~ 125 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B1YTF1	S09V000586	VA	6/10/09	n/a	~~500~~ 125 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
					AM 6/11/09		

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R. Kitteelg	6-11-09 0900	J. Herrick	6.11.09 0900
J. Herrick	6/11/09 0920	Joe Sears	6/11/09 0920

Matrix*

S = Soil		DL = Drum Liquids	
SE = Sediment		T = Tissue	
SO = Solid		WI = Wipe	
SL = Sludge		L = Liquid	
W = Water		V = Vegetation	
O = Oil		VA = Vapor	
A = Air		X = Other	
DS = Drum Solids			

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-072	PAGE 1 OF 2
COLLECTOR: Rosanne Kanes	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH: 18-20'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2CC9C364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C											
TYPE OF CONTAINER	Liner											
NO. OF CONTAINER(S)	3											
VOLUME	160g											
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YTD8	SOIL	6-4-09	1030	✓									
S09V000558	(a)												
559	(b)												
560	(c)												

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Jimmy Rosanne 6-4-09	1445	RL Steele RLSteele 6.4.09	1445

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-61B(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-072	PAGE 2 OF 2
COLLECTOR Rosanne Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH 18-20'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

WMI1106200900002

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-075	PAGE 1 OF 2
COLLECTOR: Rosane, Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH: 26 - 28'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: ~~HNF-N-576-3 pg 71~~ JAR 6-4-09		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF1	SOIL	6-4-09	1328	✓
S09V000374	(a)			
375	(b)			
376	(c)			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	6-4-09 / 1445	RKSteele RKSteele	6-4-09 1445

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1100290002

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-075	PAGE 2 OF 2
COLLECTOR Rosalie Kerner	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-526-3 pg 71	ACTUAL SAMPLE DEPTH 26-28	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1106200900 03

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090365
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTD2	S09V000510	VA	6/10/09	n/a	~~500~~ 125 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B1YTD5	S09V000554	VA	6/10/09	n/a	~~500~~ 125 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B1YTD5					km 6/11/09		
MA 01/19/10							

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RJ Stoelle	RJ Stoelle		6-11-09 0900	J. Harrick	J. Harrick		6-11-09 0900
J. Harrick	J. Harrick		6/11/09 0920	Joe Sears	Joe Sears		6/11/09 0920

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA1106200910003

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-066	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, White	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6406, I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P570	10'-12'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	2 6-3-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTD2	SOIL	6-3-09	1425
S09V000497	(A)		
S09V000498	(B)		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, Edward Kauer	6-3-09 1530	Tuttelbod Tuttelbod	6-3-09 1530

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Liner One Full
Liner Two 1/2

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1106200910003

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-066	PAGE 2 OF 2
COLLECTOR Kauer, White	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS70 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1106200900 03

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-069	PAGE 1 OF 2
COLLECTOR: Rosanne Kaner	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PG 71	ACTUAL SAMPLE DEPTH: 14-16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTD5	SOIL	6-4-09	0934	✓
S09V000542	(a)			
543	(b)			
544	(c)			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Lanny Rosanne Lanny Rosanne 6-4-09	1445	RRSteele	6-4-09 1445
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA11062009 0003

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-069	PAGE 2 OF 2
COLLECTOR Rosanne Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA15062009 0004

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090365
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: NO	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTF4	S09V000602	VA	6/15/09	n/a	125mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B1YTF7	S09V000618		6/15/09	n/a	125mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Steele	R Steele		6.15.09 1015	RD Julian CHPRC			6.15.09 1015
R.D. Julian			1350 6-15-09	Joe Sears			1350 6-15-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-078	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6406, I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg	54.5-56.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

S0090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF4	SOIL	6-9-09	0920	✓
S09V000 590				
↓ 591				
✓ 593				

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Larry Rosane Larry Rosane	6-9-09 / 1430	RECEIVED BY/STORED IN: R Steele	6-9-09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-078	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3,pg	ACTUAL SAMPLE DEPTH 54.5' - 56.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-081	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust Kauer	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6406, I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 72	59' - 61'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF7	SOIL	6-9-09	1055	✓
SO9V000 606				
607				
608				

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Ed Kauer / [illegible]	6-9-09 1430	RECEIVED BY/STORED IN: [illegible] & STEELE	6-9-09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-081	PAGE 2 OF 2
COLLECTOR Rosane Rust Kunz	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 72	ACTUAL SAMPLE DEPTH 59-61'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA2206200900005

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090454
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B20XV5	S09V000761	VA	6/22/09	n/a	125mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XV9	S09V000762	VA	6/22/09	n/a	125mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW3	S09V000763	VA	6/22/09	n/a	125mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RFSteele	RFSteele		6.22.09 1035	R. Ellingsworth	RE		6.22.09 1035
R Ellingsworth	RE		6-22-09 1357	Joe Seors	Joe Seors		6-22-09 1357
			Date/Time				Date/Time
			Date/Time				Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-102	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane, Rust, Kower	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6402; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 73	6-8'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XV5

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	2
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XV5	SOIL	6-15-09	0935
S09V000725	Liner "B"		
726	Liner "A"		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	6-15-09 / 1352	RHHob RASteele	6.15.09 1352
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
1 3/4 Liners full

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-102	PAGE 2 OF 2
COLLECTOR Rosane, Rust, Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6402; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-5, pg 73	ACTUAL SAMPLE DEPTH 6'-8'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-106	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust Kamm	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6402; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 73		301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

46°

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XV8

20090542

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	82 6-15-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B20XV9	SOIL	6-15-09	1017	✓
509000738	Liner A			
739	Liner B			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	6-15-09 1352	RAHale RAHale	6.15.09 1352
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

2 full Liners

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-106	PAGE 2 OF 2
COLLECTOR Rosane, Rust Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6402; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

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(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-110	PAGE 1 OF 2
COLLECTOR Rosawe, Rust, Kamer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6402; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH 14'-16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090542

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XW2

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1/2 full 6-15-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW3	SOIL	6-15-09	1053
S09V100751	Liner A		
752	Liner B		

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM — DATE/TIME	RECEIVED BY/STORED IN — DATE/TIME	
Larry Rosawe Larry Rosawe 6-15-09 1352	R.L. Steele R.L. Steele 6-15-09 1352	
RELINQUISHED BY/REMOVED FROM — DATE/TIME	RECEIVED BY/STORED IN — DATE/TIME	
RELINQUISHED BY/REMOVED FROM — DATE/TIME	RECEIVED BY/STORED IN — DATE/TIME	
RELINQUISHED BY/REMOVED FROM — DATE/TIME	RECEIVED BY/STORED IN — DATE/TIME	
RELINQUISHED BY/REMOVED FROM — DATE/TIME	RECEIVED BY/STORED IN — DATE/TIME	
RELINQUISHED BY/REMOVED FROM — DATE/TIME	RECEIVED BY/STORED IN — DATE/TIME	
RELINQUISHED BY/REMOVED FROM — DATE/TIME	RECEIVED BY/STORED IN — DATE/TIME	

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

1-1/2 liner full

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-110	PAGE 2 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust Kauer	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6402; I-003	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3,973	14'-16'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
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A-6003-618(01/06)

WA06082009 0014

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090 575

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE		
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YY17	S09V000937		8/5/09	n/a	3 ~~1 L PLASTIC~~ GLASS 8-6-09	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B1YY17	S09V000938		8/5/09	n/a	2 ~~1 L PLASTIC~~ GLASS 8-6-09	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R.L. Humbers / R.L. Humbers	1000 8-6-09	F.D. Julian / F.D. Julian	1000 1000 8-6-09
R.D. Julian / R.D. Julian	1135 8-6-09	Joe Sears / Joe Sears	1135 8-6-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-003-014	PAGE 1 OF 3

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
KAUER	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	**75 Days / 75 Days**
WMA-C Tank Farm -EB	WMA C Sampling for CMS - QC Sampling		V09-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P975	N/A	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C	Cool~4C	HNO3 to pH <2	HNO3 to pH <2	Cool~4C	Cool~4C	Cool~4C	ZnAc+NaOH to pH > 9/Cool~6C	NaOH to pH >= 12/Cool~4C	None
TYPE OF CONTAINER	aGs*	aG	G/P	G	aG	aG	G/P	G/P	G/P	P
NO. OF CONTAINER(S)	3	4	1	1	3	2	1	1	1	1
VOLUME	40mL	1000mL	500mL	500mL	1000mL	1000mL	250mL	500mL	60mL	125mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	Mercury - 7470 - (CV) (TF) (Mercury)	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS	SEE ITEM (6) IN SPECIAL INSTRUCTIONS	Sulfide - 9215 (Sulfide)	Total Cyanide - 9014 (TF) (Cyanide)	pH (Water) - 9040 (TF) (pH Measurement)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YY17	WATER	8-3-09	1037	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / Ed Kauer	8-3-09 1400	R Rittof / R Rittof	8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-014	PAGE 2 OF 3
COLLECTOR KAUR	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7P	DATA TURNAROUND
SAMPLING LOCATION WMA-C Tank Farm -EB	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PG 75 HNF-N-576-3	ACTUAL SAMPLE DEPTH N/A	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine}
(3)ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc}
(4)PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260}
(5)Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Hexachlorobenzene}
(6)IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-014	PAGE 3 OF 3
COLLECTOR KAUR	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7P	DATA TURNAROUND
SAMPLING LOCATION WMA-C Tank Farm -EB	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. 1575 HNF-N-576-3	ACTUAL SAMPLE DEPTH N/A	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2					
TYPE OF CONTAINER	G/P	G/P	G/P	G/P	G/P					
NO. OF CONTAINER(S)	4	1	1	1	2					
VOLUME	1000mL	1000mL	1000mL	1000mL	1000mL					
SAMPLE ANALYSIS	I129_SEP_GEA (TF) (Iodine-129)	SEE ITEM (7) IN SPECIAL INSTRUCTIONS	Nickel-63 (TF) (Nickel-63)	Selenium-79 (TF) (Selenium-79)	Strontium-89,90 – Sr-90 (Strontium-90)					

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YY17	WATER	8-3-09	1037	✓	✓	✓	✓	✓					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Ed Kaur	DATE/TIME 8-3-09 1400	RECEIVED BY/STORED IN Robert Rietkerk	DATE/TIME 8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(7)Isotopic Plutonium {Plutonium-238, Plutonium-239/240}

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA11082009 0010

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090575

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE		
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B215K8	S09V000865		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B215K9	S09V000878		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW6	S09V000906		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW9	S09V000907		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XX2	S09V000908		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

verified 08/11/09 TJL

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Steele	R Steele		8-11-09 0930	R.D. Julian	R.D. Julian		0930 8-11-09
R.D. Julian	R.D. Julian		8-11-09 1300	Joe Sears	Joe Sears		1300 08/11/09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-174	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rost, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; Surface	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 Pg 74	0-1	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A PCB 7/29/09		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
222S20090574

PRESERVATION	~~Cool~~ ~~4C~~ ~~Cool~~ 6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B215K8	SOIL	7-30-09	08:25	✓
S09V00083B				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [signature] 7-30-09	1315	R H Steele 7.30.09	1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-174	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. 5574 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-175	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
KANZE, Rust, Rosame	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; Surface-D	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 PS 74	0 – 1	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A PGB 7/29/09		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	~~Cool~~ 4C/Cool~ 6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B215K9	SOIL	7-30-09	0830	✓
509V000869				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kanzer	7-30-09 1315	R Steele	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-175	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-113	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 A24	5-7'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

57"

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW6	SOIL	07-30-09	1000 ✓
S09V000882	A		
S09V000883	B		
S09V000884	C		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Elkins, Robert 7-30-09	1315	RtSteele RtSteele	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-113	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 5-7	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-116	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7466; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 Pg 74	10' to 12'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

75

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW9	SOIL	7-30-09	1038
S09V000891	(A)		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [signature]	7-30-09 1315	R.A. Rasteele	7-30-09 1315

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Only 1 Liner Sent

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-116 PAGE 2 OF 2
COLLECTOR KAUER, Rust, RoSane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P DATA TURNAROUND
SAMPLING LOCATION C7466; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐ 75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS 74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A	

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-119	PAGE 1 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 PS 74	ACTUAL SAMPLE DEPTH 14' to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

6 8 ℞

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
320XX2	SOIL	7-30-09	1205	✓
S09V000900	A			
S09V000901	B			
S09V000902	C			

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Ed Kauer	7-30-09 1315	RECEIVED BY/STORED IN: RJ Steele/G	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-119	PAGE 2 OF 2
COLLECTOR KAUER, RUST, ROSANNE	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 14' to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA12082009 0018

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090574

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE		
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B20XX5	S09V001000	VA	8/12/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B211W5	S09V000996	VA	8/12/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW6	S09V000997	VA	8/12/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RtSteele	RtSteele		8.12.09 1100	R.D Julian			8.12.09 1100
R.D. Julian			8-12-09 1255		Joe Sears		08/12/09 1255

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-122	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauk, Rust, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 PG 75	43.5-45.5	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

22S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XX5	SOIL	8-3-09	0850 ✓
S09V000954	A		
S09V000955	B		
S09V000956	C		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauk / [signature]	8-3-09 1400	[signature] R B Steele	8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-122	PAGE 2 OF 2
COLLECTOR Knox, Rust, Rosame	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS75 HNF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 45.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-125	PAGE 1 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 76	ACTUAL SAMPLE DEPTH 84'-86'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 ZC090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211W3	SOIL	8-4-09	0845	✓
S09V000 963	A			
964	B			
965	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne 8-4-09	1800	RHSteele RHSteele	8.4.09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-125	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 76	ACTUAL SAMPLE DEPTH 84'-86'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids. (1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-128	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
KAUER, RUST, ROSANE	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7466; I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 (5576)	109.5 to 111.5	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225200905 74

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
211W6	SOIL	8-4-09	14:10	✓
309U000978	A			
8/5/09 981989	B			
984	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [illegible]	8-4-09 1500	[illegible]	8-4-09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-128	PAGE 2 OF 2
COLLECTOR Kause, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P576 HNF-N-576-3	ACTUAL SAMPLE DEPTH 109.5 to 111.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1408200900 01

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090575
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.: N/A
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B211W9	S09V000998	VA	8/13/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B211X2	S09V000999	VA	8/13/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RASteele	RASteele	8.13.09	0940	KB Hulse	KB Hulse		8.13.09 09.40
KB Hulse	KB Hulse		8-13-09 1223	Joe Sears	Joe Sears		08/13/09 1223

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-134	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; I-008	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 p77	133'-135'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

222S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211X2	SOIL	8-5-09	1352	✓
S09V000980	A			
S09V000983	B			
S09J000986	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Lenny Rosane Lenny Rosane	8-5-09/ 1500	Richard R Steele	8.5.09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-134	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-W-576-3 pg 77	ACTUAL SAMPLE DEPTH 133'-135'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-131	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg77	114'-116'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2222C090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B211W9	SOIL	8-5-09	0945 ✓
S09V000 979			
982			
985			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	8-5-09 1500	R H Steele R H Steele	8-5-09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-131	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 77	ACTUAL SAMPLE DEPTH 114'-116'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA18082009011

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090608
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B211Y3	S09V001189		8/18/09	n/a	50 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B211Y6	S09V001190		8/18/09	n/a	50 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B211Y9	S09V001191		8/18/09	n/a	50 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B215L0	S09V001072		8/18/09	n/a	500 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B215L1	S09V001073		8/18/09	n/a	500 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RJ Steele	RJ Steele		8.18.09 1040	R.D. Julian	R.D. Julian		8.18.09 1040
R.D. Julian	R.D. Julian		8-18-09 1310	Joe Sears	Joe Sears		08/18/09 1310
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-176	PAGE 1 OF 2
COLLECTOR KAUSE, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. PS78 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A PCB 7/29/09		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

31°

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	~~Cool~~ 4C/Cool~ 6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B215L0	SOIL	8-10-09	1045
B09V001051			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Rowe, Ed Rowe	8-10-09 1330	R L Steele R L Steele	8-10-09 1330
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-176	PAGE 2 OF 2
COLLECTOR Kauer, Rost	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. 5578 HNF W-57L-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-177	PAGE 1 OF 2
COLLECTOR Kauer, Rost	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 PS 78	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

PCB 7/29/09

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

310

SPECIAL HANDLING AND/OR STORAGE
222SZ0090607

PRESERVATION	~~Cool~~ ~~4C~~/Cool~ 6C											
TYPE OF CONTAINER	G/P											
NO. OF CONTAINER(S)	2											
VOLUME	500mL											
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B215L1	SOIL	8-10-09	1045
509100 1052			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E Kauer	8-10-09 1330	R Stegle	8-10-09 1330
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-177	PAGE 2 OF 2
COLLECTOR Kasch, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P578 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-143	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauck, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 Pg 75	5' to 7'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

48

SPECIAL HANDLING AND/OR STORAGE
22252090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B211Y3 1083	SOIL	08-11-09	0840 ✓
5091V00 1083	A BAR 8/13/09		
1084	B		
1085	C		

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: EE Kauck/	8-11-09 1240	RECEIVED BY/STORED IN: RASteele	8.11.09 1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-143	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. P575 HNFN-576-3	ACTUAL SAMPLE DEPTH 5' to 7'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-146	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.** PS79 HNF-N-576-3	**ACTUAL SAMPLE DEPTH** 10 to 12'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~3~~ 2 8-11-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211Y6	SOIL	8-11-09	0910	✓
SO9T00 1086				
↓ 1087				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/ 8-11-09	1240	R Hatel R Skeele 8-11-09	1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Only 2 Liners Full
1 Liner Empty

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-146 PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐ DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	
ICE CHEST NO.	FIELD LOGBOOK NO. PS79 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10' to 12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A	

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-149	PAGE 1 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. 8979 HNF-N-576-3	ACTUAL SAMPLE DEPTH 14' to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

48°

SPECIAL HANDLING AND/OR STORAGE
222S2C090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B211Y9	SOIL	08-11-09	0945
S09U00 1089			
1090			
1091			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/[illegible] 8-11-09	1240	[illegible] 8-11-09	1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-149	PAGE 2 OF 2
COLLECTOR KAUER, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 P575	ACTUAL SAMPLE DEPTH 14 to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine) ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA19082009 0001

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090608
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B21202	S09V001179		8/18/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B21205	S09V001180		8/18/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B21208	S09V001181		8/18/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
RtSteele	8.19.09 0900	R.D. Julian	8.19.09 0:9:00
R.D. Sulzen	1015 8-19-09	Joe Sears	1015 8-19-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-152	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rost	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.** Pg 80	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3	43.5 to 45.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

28°

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

222S20040607

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21202	SOIL	8-12-09	0840	✓
S09V001131				
1135				
1139				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/	8-12-09 1100	R Steele	8-12-09 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-152	PAGE 2 OF 2
COLLECTOR KAUSE, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P580 HNF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 45.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-155	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
KAUER, RUST	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-005	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P58	92' to 94'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
22252C090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21205	SOIL	8-13-09	0845	✓
S09V00 1132				
1136				
1140				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
EC Kauer / [illegible]	8-13-09 1400	RH Steele / RHSteele	8-13-09 1400

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-157	PAGE 2 OF 2
COLLECTOR Kaush Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. 451 HNF-N-576-3	ACTUAL SAMPLE DEPTH 92' to 94'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-158	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
KAUR, RUST	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 PG81	97' to 99'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

33°

SPECIAL HANDLING AND/OR STORAGE
222S Z0090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21208	SOIL	8-13-09	1120
509U00			1133
			1137
			1141

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kaur / [signature] 8-13-09	1400	[signature] / R J Steele	8.13.09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-158	PAGE 2 OF 2
COLLECTOR KAUER, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. P581 HNF-N-576-3	ACTUAL SAMPLE DEPTH 97' to 99'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA2608200900 01

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090608
Gary Cooke/Jann Frye		Page 1 of 1

Collector: Steve McKinney	Contact/Requestor: Steve McKinney	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C Farm Vadose	Purchase Order/Charge Code	
Project Title: C Farm Vadose	Logbook/ Work Package No.: N/A	Ice Chest No.: Yes	Temp.: 2-6 degrees
Shipped To (Lab): CLS	Method of Shipment: Ground	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 days	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B21211	S09V001182		8/25/09	n/a	50 mL amber	Ethylene Glycol, MBP/DBP	COOL
B21214	S09V001227		8/25/09	n/a	50 mL amber	Ethylene Glycol, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference COntract # 21065
Release 39

Hold Time: 14 days

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Todd McCollock	8/25/09 @ 0933	R.D. Julian	8-25-09 0933
R.D. Julian	8-25-09 1540	William P. Moore	8-25-09 1540

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-161	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 82	125' - 127'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

H3°

SPECIAL HANDLING AND/OR STORAGE

222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21211	SOIL	8-17-09	1000	✓
509U001134	A			
1138	B			
1142				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/Ed Kauer	8-17-09 1430	RKSteele RKSteele	8.17.09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-161	PAGE 2 OF 2
COLLECTOR Karen Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 82	ACTUAL SAMPLE DEPTH 125'-127'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-164	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-008	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P502	135 to 137	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21214	SOIL	8-17-09	1355	✓
S09V001215				
1216				
1217				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/ 8-17-09	1430	RHRiedle 8-17-09	1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-164	PAGE 2 OF 2
COLLECTOR KAUER, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. P582 HNF-N-576-3	ACTUAL SAMPLE DEPTH 135 to 137	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA06012010 0001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B236P2	S09V001642	VA	1/20/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	~~N/A~~ COO
B23KT4	S09V001657	VA	1/20/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	~~N/A~~ COO
B238H1	S09V001687	VA	1/20/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	~~N/A~~ COO

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Steele	RSteele		1-6-10 08 40	R Ellingsworth	R Ellingsworth		1-6-10 08 40
R Ellingsworth	R Ellingsworth		1-6-10 09 37	Larry D. Lockard	D Lockard		1-6-10 09 37
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA06012010001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
GARY COOKE/JANN FRYE		Page 1 of 1

Collector STEVE MCKINNEY	Contact/Requestor STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 FAX 372-1878
SAF No. V09-002	Sample Origin C FARM VADOSE	Purchase Order/Charge Code	
Project Title C FARM VADOSE	Logbook/ Work Package No. N/A	Ice Chest No. YES	Temp. 2-6 DEGREES
Shipped To (Lab) CLS	Method of Shipment GROUND	Bill of Lading/Air Bill No.	
Protocol N/A	Data Turnaround 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B236P2	S09V001642	VA	12/29/09 ~~1/20/09~~	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B23KT4	S09V001657	VA	12/29/09 ~~1/20/09~~	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B238H1	S09V001687	VA	~~1/20/09~~ 12/30/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A

COPY

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | V10-003-032 | PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7472 1004	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-~~000001~~ 003 BC 12-30-09	TFV2-09-000001	14 – 16	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238H1	SOIL	12-30-09	10:25	X
509V001682 liner (a)				
1683 liner (b)				
1684 liner (c)				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BC Campbell BC-Campbell	12-30-09 1200	RLSteele RLSteele	12-30-09 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium 89,90 -- Sr-90;

6°C

22252009087 7

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-023

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell/Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY	☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**			
C7472 I001	WMA C Sampling for CMS		V10-003			

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFV-009-003	TFVZ-09-000001	5-7	N/A	Govt. Vehicle

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 20090877

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	BC 12-29-09 2
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B236P2	SOIL	12-29-09	09:29	X
S09V001637				
S09V001638				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12.29.09 1320	R Steele R Steele	12.29.09 1320

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

Liner 2 ~~5090~~ BC 12-29-09
50% Full
3.3 c

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-026

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I002	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFV-009-003	TFVZ-09-000001	10-12	N/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations						

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 20090877

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1 BC 12-29-09 BC
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B236P5	SOIL	12-29-09	1140	X
S09V001652				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12-29-09 1320	R Steele R Steele	12-29-09 1320
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium (Plutonium-239/240, Plutonium-238) Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

3.3°C

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME	

A 6003 618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-029

COLLECTOR: Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7472 I003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.: TFV5-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 12 – 14	COA: n/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegetation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C	cool~6C
TYPE OF CONTAINER	Liner	AG
NO. OF CONTAINER(S)	3	1
VOLUME	160g	500ml
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	See item 1 in special instructions

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B236P8	SOIL	12-30-09	09:43	X	X
S09V001654	liner A				
1664	liner B				
1665	liner C				
1666	Shoe				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B C Campbell	12-30-09 1200	[illegible]	12.30.09 1200

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

6°C

22252009087 7

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1301201000001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090877
GARY COOKE/JANN FRYE		Page 1 of 1

Collector STEVE MCKINNEY	Contact/Requestor STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 FAX 372-1878
SAF No. V09-002	Sample Origin C FARM VADOSE	Purchase Order/Charge Code	
Project Title C FARM VADOSE	Logbook/ Work Package No. N/A	Ice Chest No. YES	Temp. 2-6 DEGREES
Shipped To (Lab) CLS	Method of Shipment GROUND	Bill of Lading/Air Bill No.	
Protocol N/A	Data Turnaround 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238H4	S09V001702		1/13/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B238H7	S09V001717		1/13/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B23830	S09V001732		1/13/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.J. Stacle	R.L. Tab		1.13.10 0930	S.J. Southerland CHPRC			1.13.10 0930
S.J. Southerland CHPRC			JAN 13 2010 1025	L.D. Lockard			JAN 13 2010 1025
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA13012010 0001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090877
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238H4	S09V001702		~~1/13/10~~ 1/5/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B238H7	S09V001717		~~1/13/10~~ 1/5/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
~~B238J0~~	S09V001732		~~1/13/10~~	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B238J0			1/7/10				

COPY

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | V10-003-035 | PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I005	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFV2-09-003	TFV2-09-000001	108.5 - 110.5	n/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	n/A		n/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238H4	SOIL	1-5-10	9:42
S09V001697 Liner A			
S09V001698 Liner B			
S09V001699 Liner C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell		R Steele R Steele	1-5-10 1415
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

1 oc

222S20090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-038

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I006	WMA C Sampling for CMS		V10-003			
ICE CHEST NO. B5-5-10	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFVZ-009-003	TFVZ-09-000001	129-131	n/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	n/A		n/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238H7	SOIL	1-5-10	1310
S09V001712	Liner A		
S09V001713	Liner B		
S09V001714	Liner C		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	1-5-10 1415	RtRtek RtSteele/G	1-5-10 1415
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium (Plutonium-239/240, Plutonium-238) Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

1°C

222S 20090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | V10-003-041 | PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I007	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFV2-09-003	TFV2-09-000001	142 – 144	N/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	N/A		N/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238J0	SOIL	1-7-10	1010
S09V001727	Liner A		
S09V001728	Liner B		
S09V001729	Liner C		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell 1-7-10	1130	R Steele R STEELE 1-7-10	1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-10C
TempBlank
RK

222S20090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-619(01/06)

WA 2001 20100001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
Gary Cooke/Jann Frye		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238J3	S09V001747		1/14/10	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B238J6	S09V001762		1/15/10	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
						NOTE: THE DATE LISTED IN 4TH COLUMN "DATE" IS WHEN THE 14 DAY SAMPLE	
						HOLD TIME BEGINS. iT IS THE SAMPLING DATE OF THE PARENT SAMPLE	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
T.L. Gloch	1/20/10 @ 0935	L.D. Wall CHPRC	1/20/10 0935
L.D. Wall CHPRC	1/20/10 1020	L D Lockard	1/20/10 1020

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-047

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Harris / Campbell	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I009	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFVZ-09-003	TFVZ-09-000001	195' - 197'	n/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	n/A		n/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238J6	SOIL	1-15-10	10:30
S09V001757	Liner A		
1758	LINER B		
1759	LINER C		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	1-15-10 11:30	RA Steele	1.15.10 1130

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-1°C
Temp blank

222S20090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-044

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Harris / Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY	☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**			
C7472 I008	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFVZ-09-003	TFVZ-09-000007	158'-160'	n/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	n/A		n/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238J3	SOIL	1-14-10	10:00

S09V001742 Liner A
S09V001743 Liner B
S09V001744 Liner C

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-14-10 / 11:00	R Steele R/Steele	1-14-10 1100

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-10°C
Altech
TEMP BLANK

222520090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA2501201000 04

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
Gary Cooke/Jann Frye		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238K3	S10V000084		1/19/10	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
						NOTE: THE DATE LISTED IN 4TH COLUMN "DATE" IS WHEN THE 14 DAY SAMPLE	
						HOLD TIME BEGINS. iT IS THE SAMPLING DATE OF THE PARENT SAMPLE	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R Steele	1-25-10 1030	K Fatheson	1-25-10 1030
K Fatheson	1-25-10 1159	Joe Sears	1-25-10 1159

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-050	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7472 I010	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	216'-218	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238K3	SOIL	1-19-10	1010
S10000077	liner (a)		
78	liner (b)		
79	liner (c)		

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-19-10 11:30	RRLeale RRLeale	1-19-10 1130

SPECIAL INSTRUCTIONS

After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

13°C
Temp Blank
DK

22252090377

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Appendix 5

Data Validation Supporting Documentation

PESTICIDE/PCB DATA VALIDATION CHECKLIST

VALIDATION LEVEL:	A	B	C	D	E
PROJECT: WMA C			DATA PACKAGE: VSR10-024		
VALIDATOR: Carl Schloesslin		LAB: CLS		DATE: 9-13-2010	
			SDG: 2009-0161, -0378, -0365, -0454, -0575, -0608, -0878		
ANALYSES PERFORMED					
SW-846 8081 X	SW-846 8081 (TCLP)	SW-846 8082	SW-846 8081 (TCLP)	SW-846 8151	

SAMPLES/MATRIX Soil samples *See below for water samples

20090161: WA210420090001-001
20090378: WA020620090002-001, WA020620090002-002
20090365: WA110620090003-001, WA110620090003-002
20090454: WA220620090005-001, WA220620090005-002, WA220620090005-003
20090575: WA110820090010-001, WA110820090010-002, WA110820090010-003, WA110820090010-004, WA110820090010-005
20090608: WA180820090011-001, WA180820090011-002, WA180820090011-003, WA180820090011-004, WA180820090011-005
20090878: WA060120100001-001, WA060120100001-002, WA060120100001-003

1. DATA PACKAGE COMPLETENESS AND CASE NARRATIVE

Technical verification documentation present? ..... Yes (No) N/A

Comments: None

2. INSTRUMENT PERFORMANCE AND CALIBRATIONS (Levels D and E)

Initial calibrations acceptable? ..... Yes No (N/A)

Continuing calibrations acceptable? ..... Yes No (N/A)

Standards traceable? ..... Yes No (N/A)

Standards expired? ..... Yes No (N/A)

Calculation check acceptable? ..... Yes No (N/A)

DDT and endrin breakdowns acceptable? ..... Yes No (N/A)

Comments:

* Water samples
20090575: WA060820090014-001, WA060820090014-002

PESTICIDE/PCB DATA VALIDATION CHECKLIST

3. BLANKS (Levels B, C, D, and E)

Calibration blanks analyzed? (Levels D, E) ..... Yes No N/A

Calibration blank results acceptable? (Levels D, E) ..... Yes No N/A

Laboratory blanks analyzed? ..... Yes No N/A

Laboratory blank results acceptable? ..... Yes No N/A

Field/trip blanks analyzed? (Levels C, D, E) ..... Yes No N/A

Field/trip blank results acceptable? (Levels C, D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

4. ACCURACY (Levels C, D, and E)

Surrogates analyzed? ..... Yes No N/A

Surrogate recoveries acceptable? ..... Yes No N/A

Surrogates traceable? (Levels D, E) ..... Yes No N/A

Surrogates expired? (Levels D, E) ..... Yes No N/A

MS/MSD samples analyzed? ..... Yes No N/A

MS/MSD results acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards expired? (Levels D, E) ..... Yes No N/A

LCS/BSS samples analyzed? ..... Yes No N/A

LCS/BSS results acceptable? ..... Yes No N/A

Standards traceable? (Levels D, E) ..... Yes No N/A

Standards expired? (Levels D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Performance audit sample(s) analyzed? ..... Yes No N/A

Performance audit sample results acceptable? ..... Yes No N/A

Comments:

MSDs were not performed, but LCS/LCSDs and lab duplicates were performed.

Surrogate recovery assessment was not performed due to lack of summary reporting forms in the data package. The client was notified and agreed that assessment should not be performed.

20090161, 20090378, 20090365 & 20090454: beta Hexachlorocyclohexane LCS %R = 205%, LCSD %R = 182%; Pentachlorophenol LCS %R = 32%, LCSD %R = 33%

20090378: gamma Hexachlorocyclohexane MS %R = 133%
20090365: Pentachlorophenol MS %R = 15%
20090454: Pentachlorophenol MS %R = 35%

See comments sheet for additional accuracy infractions.

PESTICIDE/PCB DATA VALIDATION CHECKLIST

5. PRECISION (Levels C, D, and E)

Duplicate RPD values acceptable? ..... Yes No N/A

Duplicate results acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards expired? (Levels D, E) ..... Yes No N/A

Field duplicate RPD values acceptable? ..... Yes No N/A

Field split RPD values acceptable? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

6. SYSTEM PERFORMANCE (Levels D and E)

Chromatographic performance acceptable? ..... Yes No N/A

Positive results resolved acceptably? ..... Yes No N/A

Comments:

7. HOLDING TIMES (all levels)

Samples properly preserved? ..... Yes No N/A

Sample holding times acceptable? ..... Yes No N/A

Comments:

Pesticides missed holding times (sample collection to preparation time, preparation to analysis time listed in days)

20090161: WA210420090001-001 (184, 117)
20090378: WA020620090002-001 (147, 117), WA020620090002-002 (147, 117)
20090365: WA110620090003-001 (134, 117), WA110620090003-002 (133, 117)
20090454: WA220620090005-001 (122, 117), WA220620090005-002 (122, 117), WA220620090005-003 (122, 117)
20090575: WA110820090010-001 (78, 116), WA110820090010-002 (78, 116), WA110820090010-003 (78, 116), WA110820090010-004 (78, 116), WA110820090010-005 (78, 116)
20090575: WA060820090014-001 (73, 117), WA060820090014-002 (73, 117)
20090608: WA180820090011-001 (66, 116), WA180820090011-002 (66, 116), WA180820090011-003 (66, 116), WA180820090011-004 (67, 116), WA180820090011-005 (67, 116)
20090878: WA060120100001-001 (38, OK), WA060120100001-002 (38, OK), WA060120100001-003 (37, OK)

PESTICIDE/PCB DATA VALIDATION CHECKLIST

8. COMPOUND IDENTIFICATION, QUANTITATION, AND DETECTION LIMITS (all levels)

Compound identification acceptable? (Levels D, E) ..... Yes No N/A

Compound quantitation acceptable? (Levels D, E) ..... Yes No N/A

Results reported for all requested analyses? ..... Yes No N/A

Results supported in the raw data? (Levels D, E) ..... Yes No N/A

Samples properly prepared? (Levels D, E) ..... Yes No N/A

Detection limits meet RDL? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

9. SAMPLE CLEANUP (Levels D and E)

Fluoricil ® (or other absorbent) cleanup performed? ..... Yes No N/A

Lot check performed? ..... Yes No N/A

Check recoveries acceptable? ..... Yes No N/A

GPC cleanup performed? ..... Yes No N/A

GPC check performed? ..... Yes No N/A

GPC check recoveries acceptable? ..... Yes No N/A

GPC calibration performed? ..... Yes No N/A

GPC calibration check performed? ..... Yes No N/A

GPC calibration check retention times acceptable? ..... Yes No N/A

Check/calibration materials traceable? ..... Yes No N/A

Check/calibration materials Expired? ..... Yes No N/A

Analytical batch QC given similar cleanup? ..... Yes No N/A

Transcription/Calculation Errors? ..... Yes No N/A

Comments:

PESTICIDE/PCB DATA VALIDATION CHECKLIST

Comments:

Additional accuracy infractions:

20090575 (water): No LCS or MS performed.

20090575 (soil) & 20090608: Hexachlorobenzene LCS %R = 132%; alpha Hexachlorocyclohexane LCS %R = 140%, LCSD %R = 135%; beta Hexachlorocyclohexane LCS %R = 203%, LCSD %R = 202%; delta Hexachlorocyclohexane LCS %R = 282%, LCSD %R = 277%; Endrin LCS %R = 52%, LCSD %R = 54%; Pentachlorophenol LCS %R = 24%, LCSD %R = 25%

20090575 (soil): Pentachlorophenol MS %R = 56%

20090878: Endrin LCSD %R = 69%; Pentachlorophenol LCS %R = 60%, LCSD %R = 64%

20090878: Hexachlorobenzene MS %R = 61%; Aldrin MS %R = 56%; alpha Hexachlorocyclohexane MS %R = 68%; delta Hexachlorocyclohexane MS %R = 68%; DDE MS %R = 65%; Dieldrin MS %R = 67%; Heptachlor MS %R = 67%; Heptachlor epoxide MS %R = 62%; Pentachlorophenol MS %R = 345%

Appendix 6

Additional Documentation Requested By Client

CHLORINATED PESTICIDES

LABORATORY METHOD:

ANALYTICAL METHOD: EPA608/ 8081

Initial Calibration Performed: February 8,2010
Sample Analysis Performed: February8 -10, 2010
Analyst: Erin Stewart

Samples Analyzed in Batch:

CLS Log Number	Client Sample Id	CLS Log Number	Client Sample Id
WA020620090002-001	S09V000635	WA180820090011-002	S09V001190
WA020620090002-002	S09V000651	WA180820090011-003	S09V001191
WA060820090014-001	S09V000937	WA180820090011-004	S09V001072
WA060820090014-002	S09V000938	WA180820090011-005	S09V001073
WA110620090003-001	S09V000510	WA21042009001-001	S09V000227
WA110620090003-002	S09V000554	WA220620090005-001	S09V000761
WA110820090010-001	S09V000865	WA220620090005-002	S09V000762
WA110820090010-002	S09V000878	WA220620090005-003	S09V000763
WA110820090010-003	S09V000906	WA060120100001-001	S09V001642
WA110820090010-004	S09V000907	WA060120100001-002	S09V001657
WA110820090010-005	S09V000908	WA060120100001-003	S09V001687
WA180820090011-001	S09V001189		

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery / RPD	Acceptance Criteria	Comments	RPD	Acceptance Criteria	Comments
ICV	2/8/2010	3100207A\00207_40.D									
Hexachlorobenzene	2/8/2010	3100207A\00207_40.D	54.176	ng/ml	50.00	108	80-120	PASS			
Aldrin	2/8/2010	3100207A\00207_40.D	47.54	ng/ml	50.00	95	80-120	PASS			
alpha Hexachlorcyclohexane	2/8/2010	3100207A\00207_40.D	52.927	ng/ml	50.00	106	80-120	PASS			
beta Hexachlorocyclohexane	2/8/2010	3100207A\00207_40.D	45.837	ng/ml	50.00	92	80-120	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/8/2010	3100207A\00207_40.D	59.242	ng/ml	50.00	118	80-120	PASS			
delta Hexachlorocyclohexane	2/8/2010	3100207A\00207_40.D	51.959	ng/ml	50.00	104	80-120	PASS			
DDD	2/8/2010	3100207A\00207_40.D	52.303	ng/ml	50.00	105	80-120	PASS			
DDE	2/8/2010	3100207A\00207_40.D	45.994	ng/ml	50.00	92	80-120	PASS			
DDT	2/8/2010	3100207A\00207_40.D	54.021	ng/ml	50.00	108	80-120	PASS			
Dieldrin	2/8/2010	3100207A\00207_40.D	53.069	ng/ml	50.00	106	80-120	PASS			
Endrin	2/8/2010	3100207A\00207_40.D	47.692	ng/ml	50.00	95	80-120	PASS			
Heptachlor	2/8/2010	3100207A\00207_40.D	48.838	ng/ml	50.00	98	80-120	PASS			
Heptachlor epoxide	2/8/2010	3100207A\00207_40.D	49.34	ng/ml	50.00	99	80-120	PASS			
Pentachlorophenol	2/8/2010	3100207A\00207_40.D	47.976	ng/ml	50.00	96	80-120	PASS			
CV											
Hexachlorobenzene	2/8/2010	3100207A\00207_47.D	81.33	ng/ml	100.00	81	80-120	PASS			
Aldrin	2/8/2010	3100207A\00207_47.D	107.04	ng/ml	100.00	107	80-120	PASS			
alpha Hexachlorcyclohexane	2/8/2010	3100207A\00207_47.D	113.91	ng/ml	100.00	114	80-120	PASS			
beta Hexachlorocyclohexane	2/8/2010	3100207A\00207_47.D	95.19	ng/ml	100.00	95	80-120	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/8/2010	3100207A\00207_47.D	123.44	ng/ml	100.00	106	80-120	PASS			
delta Hexachlorocyclohexane	2/8/2010	3100207A\00207_47.D	112.05	ng/ml	100.00	112	80-120	PASS			
DDD	2/8/2010	3100207A\00207_47.D	118.49	ng/ml	100.00	118	80-120	PASS			
DDE	2/8/2010	3100207A\00207_47.D	104.22	ng/ml	100.00	104	80-120	PASS			
DDT	2/8/2010	3100207A\00207_47.D	112.65	ng/ml	100.00	113	80-120	PASS			
Dieldrin	2/8/2010	3100207A\00207_47.D	109.89	ng/ml	100.00	110	80-120	PASS			
Endrin	2/8/2010	3100207A\00207_47.D	104.13	ng/ml	100.00	104	80-120	PASS			
Heptachlor	2/8/2010	3100207A\00207_47.D	101.27	ng/ml	100.00	101	80-120	PASS			
Heptachlor epoxide	2/8/2010	3100207A\00207_47.D	102.56	ng/ml	100.00	103	80-120	PASS			
Pentachlorophenol	2/8/2010	3100207A\00207_47.D	89.64	ng/ml	100.00	90	80-120	PASS			

DL											
Hexachlorobenzene	2/8/2010	3100207A\00207_48.D	2.40	ng/ml	2.00	120	60 -140	PASS			
Aldrin	2/8/2010	3100207A\00207_48.D	2.18	ng/ml	2.00	109	60 -140	PASS			
alpha Hexachlorcyclohexane	2/8/2010	3100207A\00207_48.D	1.91	ng/ml	2.00	95	60 -140	PASS			
beta Hexachlorocyclohexane	2/8/2010	3100207A\00207_48.D	2.35	ng/ml	2.00	118	60 -140	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/8/2010	3100207A\00207_48.D	1.98	ng/ml	2.00	99	60 -140	PASS			
delta Hexachlorocyclohexane	2/8/2010	3100207A\00207_48.D	1.97	ng/ml	2.00	99	60 -140	PASS			
DDD	2/8/2010	3100207A\00207_48.D	2.41	ng/ml	2.00	120	60 -140	PASS			
DDE	2/8/2010	3100207A\00207_48.D	2.24	ng/ml	2.00	112	60 -140	PASS			
DDT	2/8/2010	3100207A\00207_48.D	1.93	ng/ml	2.00	97	60 -140	PASS			
Dieldrin	2/8/2010	3100207A\00207_48.D	2.30	ng/ml	2.00	115	60 -140	PASS			
Endrin	2/8/2010	3100207A\00207_48.D	2.16	ng/ml	2.00	108	60 -140	PASS			
Heptachlor	2/8/2010	3100207A\00207_48.D	2.14	ng/ml	2.00	107	60 -140	PASS			
Heptachlor epoxide	2/8/2010	3100207A\00207_48.D	2.29	ng/ml	2.00	114	60 -140	PASS			
Pentachlorophenol	2/8/2010	3100207A\00207_48.D	2.10	ng/ml	2.00	105	60 -140	PASS			
LCS											
Hexachlorobenzene	2/8/2010	3100207A\00207_56.D	41.60	ng/ml	50.00	83	70-130	PASS			
Aldrin	2/8/2010	3100207A\00207_56.D	41.38	ng/ml	50.00	83	70-130	PASS			
alpha Hexachlorcyclohexane	2/8/2010	3100207A\00207_56.D	56.07	ng/ml	50.00	112	70-130	PASS			
beta Hexachlorocyclohexane	2/8/2010	3100207A\00207_56.D	102.48	ng/ml	50.00	205	70-130	FAIL			
gamma Hexachlorocyclohexane (Lindane)	2/8/2010	3100207A\00207_56.D	63.07	ng/ml	50.00	126	70-130	PASS			
delta Hexachlorocyclohexane	2/8/2010	3100207A\00207_56.D	50.32	ng/ml	50.00	101	70-130	PASS			
DDD	2/8/2010	3100207A\00207_56.D	47.38	ng/ml	50.00	95	70-130	PASS			
DDE	2/8/2010	3100207A\00207_56.D	37.78	ng/ml	50.00	76	70-130	PASS			
DDT	2/8/2010	3100207A\00207_56.D	51.28	ng/ml	50.00	103	70-130	PASS			
Dieldrin	2/8/2010	3100207A\00207_56.D	50.56	ng/ml	50.00	101	70-130	PASS			
Endrin	2/8/2010	3100207A\00207_56.D	52.25	ng/ml	50.00	105	70-130	PASS			
Heptachlor	2/8/2010	3100207A\00207_56.D	52.69	ng/ml	50.00	105	70-130	PASS			
Heptachlor epoxide	2/8/2010	3100207A\00207_56.D	42.14	ng/ml	50.00	84	70-130	PASS			
Pentachlorophenol	2/8/2010	3100207A\00207_56.D	15.91	ng/ml	50.00	32	70-130	FAIL			
LCS DUP											
Hexachlorobenzene	2/9/2010	3100207A\00207_57.D	46.12	ng/ml	50.00	92	70-130	PASS	2.57	< 15%	Pass
Aldrin	2/9/2010	3100207A\00207_57.D	45.27	ng/ml	50.00	91	70-130	PASS	2.24	< 15%	Pass
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_57.D	47.69	ng/ml	50.00	95	70-130	PASS	4.04	< 15%	Pass
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_57.D	91.04	ng/ml	50.00	182	70-130	FAIL	2.96	< 15%	Pass
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_57.D	59.79	ng/ml	50.00	120	70-130	PASS	1.34	< 15%	Pass
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_57.D	46.76	ng/ml	50.00	94	70-130	PASS	1.84	< 15%	Pass
DDD	2/9/2010	3100207A\00207_57.D	49.88	ng/ml	50.00	100	70-130	PASS	1.28	< 15%	Pass
DDE	2/9/2010	3100207A\00207_57.D	43.49	ng/ml	50.00	87	70-130	PASS	3.51	< 15%	Pass
DDT	2/9/2010	3100207A\00207_57.D	55.99	ng/ml	50.00	112	70-130	PASS	2.19	< 15%	Pass
Dieldrin	2/9/2010	3100207A\00207_57.D	49.07	ng/ml	50.00	98	70-130	PASS	0.75	< 15%	Pass
Endrin	2/9/2010	3100207A\00207_57.D	56.49	ng/ml	50.00	113	70-130	PASS	1.95	< 15%	Pass
Heptachlor	2/9/2010	3100207A\00207_57.D	45.38	ng/ml	50.00	91	70-130	PASS	3.73	< 15%	Pass
Heptachlor epoxide	2/9/2010	3100207A\00207_57.D	41.98	ng/ml	50.00	84	70-130	PASS	0.10	< 15%	Pass
Pentachlorophenol	2/9/2010	3100207A\00207_57.D	16.30	ng/ml	50.00	33	70-130	FAIL	0.61	< 15%	Pass
MB											
Hexachlorobenzene	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
Aldrin	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
DDD	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
DDE	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
DDT	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
Dieldrin	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
Endrin	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
Heptachlor	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_58.D	< RL	ng/ml			< RL	PASS			

WA210420090001-001											
Hexachlorobenzene	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
Aldrin	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
DDD	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
DDE	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
DDT	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
Dieldrin	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
Endrin	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
Heptachlor	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
Heptachlor epoxide	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
Pentachlorophenol	2/9/2010	3100207A\00207_59.D	< RL	ng/ml							
WA210420090001-001DUP											
Hexachlorobenzene	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
Aldrin	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
DDD	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
DDE	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
DDT	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
Dieldrin	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
Endrin	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor epoxide	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
Pentachlorophenol	2/9/2010	3100207A\00207_60.D	< RL	ng/ml					NA	< 15%	Pass
WA020620090002-002											
Hexachlorobenzene	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
Aldrin	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_62.D	55.86	ng/ml							
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
DDD	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
DDE	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
DDT	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
Dieldrin	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
Endrin	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
Heptachlor	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
Heptachlor epoxide	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
Pentachlorophenol	2/9/2010	3100207A\00207_62.D	< RL	ng/ml							
WA020620090002-002 DUP											
Hexachlorobenzene	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
Aldrin	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_63.D	55.83	ng/ml					0.01	< 15%	Pass
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
DDD	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
DDE	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
DDT	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
Dieldrin	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
Endrin	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor epoxide	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass
Pentachlorophenol	2/9/2010	3100207A\00207_63.D	< RL	ng/ml					NA	< 15%	Pass

WA020620090002-002 MS											
Hexachlorobenzene	2/9/2010	3100207A\00207_64.D	45.78	ng/ml	50.00	92	70-130	PASS			
Aldrin	2/9/2010	3100207A\00207_64.D	46.72	ng/ml	50.00	93	70-130	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_64.D	48.64	ng/ml	50.00	97	70-130	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_64.D	111.80	ng/ml	105.86	106	70-130	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_64.D	66.45	ng/ml	50.00	133	70-130	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_64.D	50.94	ng/ml	50.00	102	70-130	PASS			
DDD	2/9/2010	3100207A\00207_64.D	49.59	ng/ml	50.00	99	70-130	PASS			
DDE	2/9/2010	3100207A\00207_64.D	44.51	ng/ml	50.00	89	70-130	PASS			
DDT	2/9/2010	3100207A\00207_64.D	56.46	ng/ml	50.00	113	70-130	PASS			
Dieldrin	2/9/2010	3100207A\00207_64.D	49.51	ng/ml	50.00	99	70-130	PASS			
Endrin	2/9/2010	3100207A\00207_64.D	61.35	ng/ml	50.00	123	70-130	PASS			
Heptachlor	2/9/2010	3100207A\00207_64.D	54.70	ng/ml	50.00	109	70-130	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_64.D	42.53	ng/ml	50.00	85	70-130	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_64.D	37.79	ng/ml	50.00	76	70-130	PASS			
WA110620090003-002											
Hexachlorobenzene	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
Aldrin	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_65.D	54.68	ng/ml							
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
DDD	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
DDE	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
DDT	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
Dieldrin	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
Endrin	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
Heptachlor	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
Heptachlor epoxide	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
Pentachlorophenol	2/9/2010	3100207A\00207_65.D	< RL	ng/ml							
WA110620090003-002 DUP											
Hexachlorobenzene	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
Aldrin	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_66.D	57.26	ng/ml					1.15	< 15%	Pass
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
DDD	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
DDE	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
DDT	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
Dieldrin	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
Endrin	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor epoxide	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
Pentachlorophenol	2/9/2010	3100207A\00207_66.D	< RL	ng/ml					NA	< 15%	Pass
WA110620090003-002 MS											
Hexachlorobenzene	2/9/2010	3100207A\00207_67.D	41.83	ng/ml	50.00	84	70-130	PASS			
Aldrin	2/9/2010	3100207A\00207_67.D	43.49	ng/ml	50.00	87	70-130	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_67.D	49.34	ng/ml	50.00	99	70-130	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_67.D	106.07	ng/ml	104.68	101	70-130	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_67.D	53.55	ng/ml	50.00	107	70-130	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_67.D	43.68	ng/ml	50.00	87	70-130	PASS			
DDD	2/9/2010	3100207A\00207_67.D	45.69	ng/ml	50.00	91	70-130	PASS			
DDE	2/9/2010	3100207A\00207_67.D	39.57	ng/ml	50.00	79	70-130	PASS			
DDT	2/9/2010	3100207A\00207_67.D	48.89	ng/ml	50.00	98	70-130	PASS			
Dieldrin	2/9/2010	3100207A\00207_67.D	45.69	ng/ml	50.00	91	70-130	PASS			
Endrin	2/9/2010	3100207A\00207_67.D	51.21	ng/ml	50.00	102	70-130	PASS			
Heptachlor	2/9/2010	3100207A\00207_67.D	46.70	ng/ml	50.00	93	70-130	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_67.D	41.13	ng/ml	50.00	82	70-130	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_67.D	7.48	ng/ml	50.00	15	70-130	FAIL			

WA220620090005-001											
Hexachlorobenzene	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
Aldrin	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_68.D	51.97	ng/ml							
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
DDD	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
DDE	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
DDT	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
Dieldrin	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
Endrin	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
Heptachlor	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
Heptachlor epoxide	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
Pentachlorophenol	2/9/2010	3100207A\00207_68.D	< RL	ng/ml							
WA220620090005-001 DUP											
Hexachlorobenzene	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
Aldrin	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_69.D	57.81	ng/ml					2.66	< 15%	Pass
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
DDD	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
DDE	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
DDT	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
Dieldrin	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
Endrin	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor epoxide	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
Pentachlorophenol	2/9/2010	3100207A\00207_69.D	< RL	ng/ml					NA	< 15%	Pass
WA220620090005-001 MS											
Hexachlorobenzene	2/9/2010	3100207A\00207_70.D	43.18	ng/ml	50.00	86	70-130	PASS			
Aldrin	2/9/2010	3100207A\00207_70.D	47.87	ng/ml	50.00	96	70-130	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_70.D	55.35	ng/ml	50.00	111	70-130	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_70.D	98.57	ng/ml	101.97	97	70-130	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_70.D	57.48	ng/ml	50.00	115	70-130	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_70.D	46.95	ng/ml	50.00	94	70-130	PASS			
DDD	2/9/2010	3100207A\00207_70.D	52.80	ng/ml	50.00	106	70-130	PASS			
DDE	2/9/2010	3100207A\00207_70.D	44.17	ng/ml	50.00	88	70-130	PASS			
DDT	2/9/2010	3100207A\00207_70.D	52.23	ng/ml	50.00	104	70-130	PASS			
Dieldrin	2/9/2010	3100207A\00207_70.D	50.64	ng/ml	50.00	101	70-130	PASS			
Endrin	2/9/2010	3100207A\00207_70.D	60.41	ng/ml	50.00	121	70-130	PASS			
Heptachlor	2/9/2010	3100207A\00207_70.D	48.76	ng/ml	50.00	98	70-130	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_70.D	46.09	ng/ml	50.00	92	70-130	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_70.D	17.67	ng/ml	50.00	35	70-130	FAIL			
MB											
Hexachlorobenzene	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
Aldrin	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
DDD	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
DDE	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
DDT	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
Dieldrin	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
Endrin	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
Heptachlor	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_71.D	< RL	ng/ml			< RL	PASS			

WA060820090014-001											
Hexachlorobenzene	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
Aldrin	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
DDD	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
DDE	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
DDT	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
Dieldrin	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
Endrin	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
Heptachlor	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
Heptachlor epoxide	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
Pentachlorophenol	2/9/2010	3100207A\00207_74.D	< RL	ng/ml							
WA060820090014-001 DUP											
Hexachlorobenzene	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
Aldrin	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
DDD	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
DDE	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
DDT	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
Dieldrin	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
Endrin	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor epoxide	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
Pentachlorophenol	2/9/2010	3100207A\00207_75.D	< RL	ng/ml					NA	< 15%	Pass
CV											
Hexachlorobenzene	2/9/2010	3100207A\00207_77.D	86.77	ng/ml	100.00	87	80-120	PASS			
Aldrin	2/9/2010	3100207A\00207_77.D	101.87	ng/ml	100.00	102	80-120	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_77.D	108.55	ng/ml	100.00	109	80-120	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_77.D	93.24	ng/ml	100.00	93	80-120	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_77.D	119.72	ng/ml	100.00	120	80-120	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_77.D	107.64	ng/ml	100.00	108	80-120	PASS			
DDD	2/9/2010	3100207A\00207_77.D	113.65	ng/ml	100.00	114	80-120	PASS			
DDE	2/9/2010	3100207A\00207_77.D	99.41	ng/ml	100.00	99	80-120	PASS			
DDT	2/9/2010	3100207A\00207_77.D	112.60	ng/ml	100.00	113	80-120	PASS			
Dieldrin	2/9/2010	3100207A\00207_77.D	104.88	ng/ml	100.00	105	80-120	PASS			
Endrin	2/9/2010	3100207A\00207_77.D	108.08	ng/ml	100.00	108	80-120	PASS			
Heptachlor	2/9/2010	3100207A\00207_77.D	99.41	ng/ml	100.00	99	80-120	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_77.D	97.97	ng/ml	100.00	98	80-120	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_77.D	86.82	ng/ml	100.00	87	80-120	PASS			
CB											
Hexachlorobenzene	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
Aldrin	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
DDD	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
DDE	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
DDT	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
Dieldrin	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
Endrin	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
Heptachlor	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_80.D	< RL	ng/ml			< RL	PASS			

LCS											
Hexachlorobenzene	2/9/2010	3100207A\00207_81.D	65.83	ng/ml	50.00	132	70-130	FAIL			
Aldrin	2/9/2010	3100207A\00207_81.D	42.75	ng/ml	50.00	85	70-130	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_81.D	69.97	ng/ml	50.00	140	70-130	FAIL			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_81.D	101.34	ng/ml	50.00	203	70-130	FAIL			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_81.D	49.95	ng/ml	50.00	100	70-130	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_81.D	140.90	ng/ml	50.00	282	70-130	FAIL			
DDD	2/9/2010	3100207A\00207_81.D	47.94	ng/ml	50.00	96	70-130	PASS			
DDE	2/9/2010	3100207A\00207_81.D	40.98	ng/ml	50.00	82	70-130	PASS			
DDT	2/9/2010	3100207A\00207_81.D	49.79	ng/ml	50.00	100	70-130	PASS			
Dieldrin	2/9/2010	3100207A\00207_81.D	50.12	ng/ml	50.00	100	70-130	PASS			
Endrin	2/9/2010	3100207A\00207_81.D	25.85	ng/ml	50.00	52	70-130	FAIL			
Heptachlor	2/9/2010	3100207A\00207_81.D	51.13	ng/ml	50.00	102	70-130	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_81.D	45.58	ng/ml	50.00	91	70-130	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_81.D	11.80	ng/ml	50.00	24	70-130	FAIL			
LCS DUP											
Hexachlorobenzene	2/9/2010	3100207A\00207_82.D	62.75	ng/ml	50.00	125	70-130	PASS	1.20	< 15%	Pass
Aldrin	2/9/2010	3100207A\00207_82.D	46.37	ng/ml	50.00	93	70-130	PASS	2.04	< 15%	Pass
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_82.D	67.56	ng/ml	50.00	135	70-130	FAIL	0.88	< 15%	Pass
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_82.D	100.91	ng/ml	50.00	202	70-130	PASS	0.11	< 15%	Pass
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_82.D	50.96	ng/ml	50.00	102	70-130	PASS	0.50	< 15%	Pass
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_82.D	138.55	ng/ml	50.00	277	70-130	FAIL	0.42	< 15%	Pass
DDD	2/9/2010	3100207A\00207_82.D	52.73	ng/ml	50.00	105	70-130	PASS	2.38	< 15%	Pass
DDE	2/9/2010	3100207A\00207_82.D	41.28	ng/ml	50.00	83	70-130	PASS	0.18	< 15%	Pass
DDT	2/9/2010	3100207A\00207_82.D	56.45	ng/ml	50.00	113	70-130	PASS	3.14	< 15%	Pass
Dieldrin	2/9/2010	3100207A\00207_82.D	51.70	ng/ml	50.00	103	70-130	PASS	0.77	< 15%	Pass
Endrin	2/9/2010	3100207A\00207_82.D	26.85	ng/ml	50.00	54	70-130	FAIL	0.94	< 15%	Pass
Heptachlor	2/9/2010	3100207A\00207_82.D	48.23	ng/ml	50.00	96	70-130	PASS	1.46	< 15%	Pass
Heptachlor epoxide	2/9/2010	3100207A\00207_82.D	42.69	ng/ml	50.00	85	70-130	PASS	1.64	< 15%	Pass
Pentachlorophenol	2/9/2010	3100207A\00207_82.D	12.67	ng/ml	50.00	25	70-130	FAIL	1.77	< 15%	Pass
MB											
Hexachlorobenzene	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
Aldrin	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
DDD	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
DDE	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
DDT	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
Dieldrin	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
Endrin	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
Heptachlor	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_83.D	< RL	ng/ml			< RL	PASS			
WA110820090010-001											
Hexachlorobenzene	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
Aldrin	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_84.D	60.31	ng/ml							
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
DDD	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
DDE	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
DDT	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
Dieldrin	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
Endrin	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
Heptachlor	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
Heptachlor epoxide	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							
Pentachlorophenol	2/9/2010	3100207A\00207_84.D	< RL	ng/ml							

WA110820090010-001 DUP											
Hexachlorobenzene	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
Aldrin	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_85.D	57.13	ng/ml					1.35	< 15%	Pass
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
DDD	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
DDE	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
DDT	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
Dieldrin	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
Endrin	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor epoxide	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
Pentachlorophenol	2/9/2010	3100207A\00207_85.D	< RL	ng/ml					NA	< 15%	Pass
WA110820090010-001 MS											
Hexachlorobenzene	2/9/2010	3100207A\00207_86.D	36.15	ng/ml	50.00	72	70-130	PASS			
Aldrin	2/9/2010	3100207A\00207_86.D	41.13	ng/ml	50.00	82	70-130	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_86.D	49.07	ng/ml	50.00	98	70-130	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_86.D	96.06	ng/ml	110.31	87	70-130	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_86.D	53.61	ng/ml	50.00	107	70-130	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_86.D	41.64	ng/ml	50.00	83	70-130	PASS			
DDD	2/9/2010	3100207A\00207_86.D	47.06	ng/ml	50.00	94	70-130	PASS			
DDE	2/9/2010	3100207A\00207_86.D	40.89	ng/ml	50.00	82	70-130	PASS			
DDT	2/9/2010	3100207A\00207_86.D	51.53	ng/ml	50.00	103	70-130	PASS			
Dieldrin	2/9/2010	3100207A\00207_86.D	45.22	ng/ml	50.00	90	70-130	PASS			
Endrin	2/9/2010	3100207A\00207_86.D	53.55	ng/ml	50.00	107	70-130	PASS			
Heptachlor	2/9/2010	3100207A\00207_86.D	42.29	ng/ml	50.00	85	70-130	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_86.D	40.58	ng/ml	50.00	81	70-130	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_86.D	27.77	ng/ml	50.00	56	70-130	FAIL			
WA18081009011-004											
Hexachlorobenzene	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
Aldrin	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_94.D	67.12	ng/ml							
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
DDD	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
DDE	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
DDT	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
Dieldrin	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
Endrin	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
Heptachlor	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
Heptachlor epoxide	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
Pentachlorophenol	2/9/2010	3100207A\00207_94.D	< RL	ng/ml							
WA220620090005-001 DUP											
Hexachlorobenzene	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
Aldrin	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_95.D	69.97	ng/ml					1.04	< 15%	Pass
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
DDD	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
DDE	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
DDT	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
Dieldrin	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
Endrin	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor epoxide	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass
Pentachlorophenol	2/9/2010	3100207A\00207_95.D	< RL	ng/ml					NA	< 15%	Pass

WA220620090005-001 MS											
Hexachlorobenzene	2/9/2010	3100207A\00207_96.D	44.27	ng/ml	50.00	89	70-130	PASS			
Aldrin	2/9/2010	3100207A\00207_96.D	48.51	ng/ml	50.00	97	70-130	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_96.D	53.30	ng/ml	50.00	107	70-130	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_96.D	107.57	ng/ml	117.12	92	70-130	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_96.D	55.74	ng/ml	50.00	111	70-130	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_96.D	46.36	ng/ml	50.00	93	70-130	PASS			
DDD	2/9/2010	3100207A\00207_96.D	48.34	ng/ml	50.00	97	70-130	PASS			
DDE	2/9/2010	3100207A\00207_96.D	46.57	ng/ml	50.00	93	70-130	PASS			
DDT	2/9/2010	3100207A\00207_96.D	48.19	ng/ml	50.00	96	70-130	PASS			
Dieldrin	2/9/2010	3100207A\00207_96.D	46.50	ng/ml	50.00	93	70-130	PASS			
Endrin	2/9/2010	3100207A\00207_96.D	56.12	ng/ml	50.00	112	70-130	PASS			
Heptachlor	2/9/2010	3100207A\00207_96.D	62.68	ng/ml	50.00	125	70-130	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_96.D	48.45	ng/ml	50.00	97	70-130	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_96.D	22.33	ng/ml	50.00	45	70-130	FAIL			
MB											
Hexachlorobenzene	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
Aldrin	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
DDD	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
DDE	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
DDT	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
Dieldrin	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
Endrin	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
Heptachlor	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_98.D	< RL	ng/ml			< RL	PASS			
LCS											
Hexachlorobenzene	2/9/2010	3100207A\00207_99.D	44.86	ng/ml	50.00	90	70-130	PASS			
Aldrin	2/9/2010	3100207A\00207_99.D	46.63	ng/ml	50.00	93	70-130	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00207_99.D	48.13	ng/ml	50.00	96	70-130	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00207_99.D	53.52	ng/ml	50.00	107	70-130	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00207_99.D	58.15	ng/ml	50.00	116	70-130	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00207_99.D	52.21	ng/ml	50.00	104	70-130	PASS			
DDD	2/9/2010	3100207A\00207_99.D	47.19	ng/ml	50.00	94	70-130	PASS			
DDE	2/9/2010	3100207A\00207_99.D	46.19	ng/ml	50.00	92	70-130	PASS			
DDT	2/9/2010	3100207A\00207_99.D	51.29	ng/ml	50.00	103	70-130	PASS			
Dieldrin	2/9/2010	3100207A\00207_99.D	47.31	ng/ml	50.00	95	70-130	PASS			
Endrin	2/9/2010	3100207A\00207_99.D	36.94	ng/ml	50.00	74	70-130	PASS			
Heptachlor	2/9/2010	3100207A\00207_99.D	51.34	ng/ml	50.00	103	70-130	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00207_99.D	45.73	ng/ml	50.00	91	70-130	PASS			
Pentachlorophenol	2/9/2010	3100207A\00207_99.D	29.99	ng/ml	50.00	60	70-130	FAIL			
LCS DUP											
Hexachlorobenzene	2/9/2010	3100207A\00208_00.D	42.64	ng/ml	50.00	85	70-130	PASS	1.27	< 15%	Pass
Aldrin	2/9/2010	3100207A\00208_00.D	43.09	ng/ml	50.00	86	70-130	PASS	1.97	< 15%	Pass
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00208_00.D	45.39	ng/ml	50.00	91	70-130	PASS	1.46	< 15%	Pass
beta Hexachlorocyclohexane	2/9/2010	3100207A\00208_00.D	51.22	ng/ml	50.00	102	70-130	PASS	1.10	< 15%	Pass
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00208_00.D	52.39	ng/ml	50.00	105	70-130	PASS	2.61	< 15%	Pass
delta Hexachlorocyclohexane	2/9/2010	3100207A\00208_00.D	47.86	ng/ml	50.00	96	70-130	PASS	2.18	< 15%	Pass
DDD	2/9/2010	3100207A\00208_00.D	45.37	ng/ml	50.00	91	70-130	PASS	0.98	< 15%	Pass
DDE	2/9/2010	3100207A\00208_00.D	39.86	ng/ml	50.00	80	70-130	PASS	3.68	< 15%	Pass
DDT	2/9/2010	3100207A\00208_00.D	45.37	ng/ml	50.00	91	70-130	PASS	3.06	< 15%	Pass
Dieldrin	2/9/2010	3100207A\00208_00.D	41.71	ng/ml	50.00	83	70-130	PASS	3.15	< 15%	Pass
Endrin	2/9/2010	3100207A\00208_00.D	34.41	ng/ml	50.00	69	70-130	PASS	1.78	< 15%	Pass
Heptachlor	2/9/2010	3100207A\00208_00.D	45.11	ng/ml	50.00	90	70-130	PASS	3.23	< 15%	Pass
Heptachlor epoxide	2/9/2010	3100207A\00208_00.D	40.07	ng/ml	50.00	80	70-130	PASS	3.30	< 15%	Pass
Pentachlorophenol	2/9/2010	3100207A\00208_00.D	31.85	ng/ml	50.00	64	70-130	FAIL	1.50	< 15%	Pass

CV											
Hexachlorobenzene	2/9/2010	3100207A\00208_04.D	95.75	ng/ml	100.00	96	80-120	PASS			
Aldrin	2/9/2010	3100207A\00208_04.D	103.93	ng/ml	100.00	104	80-120	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00208_04.D	109.90	ng/ml	100.00	110	80-120	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00208_04.D	92.67	ng/ml	100.00	93	80-120	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00208_04.D	120.10	ng/ml	100.00	120	80-120	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00208_04.D	108.02	ng/ml	100.00	108	80-120	PASS			
DDD	2/9/2010	3100207A\00208_04.D	122.09	ng/ml	100.00	133	80-120	PASS			
DDE	2/9/2010	3100207A\00208_04.D	102.41	ng/ml	100.00	102	80-120	PASS			
DDT	2/9/2010	3100207A\00208_04.D	107.55	ng/ml	100.00	108	80-120	PASS			
Dieldrin	2/9/2010	3100207A\00208_04.D	108.31	ng/ml	100.00	108	80-120	PASS			
Endrin	2/9/2010	3100207A\00208_04.D	109.70	ng/ml	100.00	110	80-120	PASS			
Heptachlor	2/9/2010	3100207A\00208_04.D	99.91	ng/ml	100.00	100	80-120	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00208_04.D	100.14	ng/ml	100.00	100	80-120	PASS			
Pentachlorophenol	2/9/2010	3100207A\00208_04.D	110.39	ng/ml	100.00	110	80-120	PASS			
CB											
Hexachlorobenzene	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
Aldrin	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
DDD	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
DDE	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
DDT	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
Dieldrin	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
Endrin	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
Heptachlor	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
Heptachlor epoxide	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
Pentachlorophenol	2/9/2010	3100207A\00208_07.D	< RL	ng/ml			< RL	PASS			
WA060120100001-003											
Hexachlorobenzene	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
Aldrin	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
beta Hexachlorocyclohexane	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
delta Hexachlorocyclohexane	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
DDD	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
DDE	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
DDT	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
Dieldrin	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
Endrin	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
Heptachlor	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
Heptachlor epoxide	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
Pentachlorophenol	2/9/2010	3100207A\00208_03.D	< RL	ng/ml							
WA060120100001-003 DUP											
Hexachlorobenzene	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
Aldrin	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
beta Hexachlorocyclohexane	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
delta Hexachlorocyclohexane	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
DDD	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
DDE	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
DDT	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
Dieldrin	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
Endrin	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
Heptachlor epoxide	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass
Pentachlorophenol	2/9/2010	3100207A\00208_08.D	< RL	ng/ml					NA	< 15%	Pass

WA060120100001-003 MS											
Hexachlorobenzene	2/9/2010	3100207A\00208_09.D	30.27	ng/ml	50.00	61	70-130	FAIL			
Aldrin	2/9/2010	3100207A\00208_09.D	28.09	ng/ml	50.00	56	70-130	FAIL			
alpha Hexachlorcyclohexane	2/9/2010	3100207A\00208_09.D	34.10	ng/ml	50.00	68	70-130	FAIL			
beta Hexachlorocyclohexane	2/9/2010	3100207A\00208_09.D	39.04	ng/ml	50.00	78	70-130	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/9/2010	3100207A\00208_09.D	36.77	ng/ml	50.00	74	70-130	PASS			
delta Hexachlorocyclohexane	2/9/2010	3100207A\00208_09.D	34.16	ng/ml	50.00	68	70-130	FAIL			
DDD	2/9/2010	3100207A\00208_09.D	38.05	ng/ml	50.00	76	70-130	PASS			
DDE	2/9/2010	3100207A\00208_09.D	32.26	ng/ml	50.00	65	70-130	FAIL			
DDT	2/9/2010	3100207A\00208_09.D	43.75	ng/ml	50.00	88	70-130	PASS			
Dieldrin	2/9/2010	3100207A\00208_09.D	33.73	ng/ml	50.00	67	70-130	FAIL			
Endrin	2/9/2010	3100207A\00208_09.D	56.27	ng/ml	50.00	113	70-130	PASS			
Heptachlor	2/9/2010	3100207A\00208_09.D	33.48	ng/ml	50.00	67	70-130	FAIL			
Heptachlor epoxide	2/9/2010	3100207A\00208_09.D	31.07	ng/ml	50.00	62	70-130	FAIL			
Pentachlorophenol	2/9/2010	3100207A\00208_09.D	172.29	ng/ml	50.00	345	70-130	FAIL			
CV											
Hexachlorobenzene	2/10/2010	3100207A\00208_13.D	90.51	ng/ml	100.00	91	80-120	PASS			
Aldrin	2/10/2010	3100207A\00208_13.D	99.52	ng/ml	100.00	100	80-120	PASS			
alpha Hexachlorcyclohexane	2/10/2010	3100207A\00208_13.D	106.34	ng/ml	100.00	106	80-120	PASS			
beta Hexachlorocyclohexane	2/10/2010	3100207A\00208_13.D	87.06	ng/ml	100.00	87	80-120	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/10/2010	3100207A\00208_13.D	115.00	ng/ml	100.00	115	80-120	PASS			
delta Hexachlorocyclohexane	2/10/2010	3100207A\00208_13.D	102.49	ng/ml	100.00	102	80-120	PASS			
DDD	2/10/2010	3100207A\00208_13.D	116.30	ng/ml	100.00	116	80-120	PASS			
DDE	2/10/2010	3100207A\00208_13.D	97.01	ng/ml	100.00	97	80-120	PASS			
DDT	2/10/2010	3100207A\00208_13.D	96.87	ng/ml	100.00	97	80-120	PASS			
Dieldrin	2/10/2010	3100207A\00208_13.D	102.48	ng/ml	100.00	102	80-120	PASS			
Endrin	2/10/2010	3100207A\00208_13.D	104.34	ng/ml	100.00	104	80-120	PASS			
Heptachlor	2/10/2010	3100207A\00208_13.D	94.76	ng/ml	100.00	95	80-120	PASS			
Heptachlor epoxide	2/10/2010	3100207A\00208_13.D	95.80	ng/ml	100.00	96	80-120	PASS			
Pentachlorophenol	2/10/2010	3100207A\00208_13.D	109.76	ng/ml	100.00	110	80-120	PASS			
CB											
Hexachlorobenzene	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
Aldrin	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
alpha Hexachlorcyclohexane	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
beta Hexachlorocyclohexane	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
gamma Hexachlorocyclohexane (Lindane)	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
delta Hexachlorocyclohexane	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
DDD	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
DDE	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
DDT	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
Dieldrin	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
Endrin	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
Heptachlor	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
Heptachlor epoxide	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			
Pentachlorophenol	2/10/2010	3100207A\00208_16.D	< RL	ng/ml			< RL	PASS			

CHLORDANE BY GC/DUAL ECD

LABORATORY METHOD: LAP124 Rev 02
ANALYTICAL METHOD: EPA 8081

Initial Calibration Performed: February 8,2010
Sample Analysis Performed: February8 -10, 2010
Analyst: Erin Stewart

Samples Analyzed in Batch:

CLS LOG Number

WA020620090002-001	WA180820090011-002
WA020620090002-002	WA180820090011-003
WA060820090014-001	WA180820090011-004
WA060820090014-002	WA180820090011-005
WA110620090003-001	WA21042009001-001
WA110620090003-002	WA220620090005-001
WA110820090010-001	WA220620090005-002
WA110820090010-002	WA220620090005-003
WA110820090010-003	WA060120100001-001
WA110820090010-004	WA060120100001-002
WA110820090010-005	WA060120100001-003
WA180820090011-001	

Sample Identification	Date Analyzed	Data File ID	Result	Units	Nominal Value	% Recovery / RPD	Acceptance Criteria	Comments
CB	2/8/2010	3100207AA\00207_13.D	ND	PPB			< RL	Pass
ICV	2/8/2010	3100207AA\00207_20.D	957	PPB	1000	95.70	80 - 120 %	Pass
CB	2/8/2010	3100207AA\00207_45.D	ND	PPB			< RL	Pass
ICV	2/8/2010	3100207AA\00207_49.D	955	PPB	1000	95.50	80 - 120 %	Pass
CV	2/8/2010	3100207AA\00207_47.D	500	PPB	500	100.00	80 - 120 %	Pass
DL	2/8/2010	3100207AA\00207_48.D	135	PPB	100.00	135.00	60 - 140 %	Pass
LCS	2/9/2010	3100207AA\00207_56.D	NA				70 - 130 %	Pass
LCSD	2/9/2010	3100207AA\00207_57.D	NA				70 - 130 % / RPD < 15%	Pass
MB	2/9/2010	3100207AA\00207_58.D	ND	PPB			< RL	Pass
WA2142009001-001 MD	2/9/2010	3100207AA\00207_60.D	ND			0.00	RPD < 15 %	Pass
WA020620090002-002 MD	2/9/2010	3100207AA\00207_63.D	ND			0.00	RPD < 15 %	Pass
WA020620090002-002 MS	2/9/2010	3100207AA\00207_64.D	NA				70 - 130 %	Pass
WA1106200090003-002 MD	2/9/2010	3100207AA\00207_66.D	ND			0.00	RPD < 15 %	Pass
WA1106200090003-002 MS	2/9/2010	3100207AA\00207_67.D	NA				70 - 130 %	Pass
WA220620090005-001 MD	2/9/2010	3100207AA\00207_69.D	ND			0.00	RPD < 15 %	Pass
WA220620090005-001 MS	2/9/2010	3100207AA\00207_70.D	NA				70 - 130 %	Pass
MB	2/9/2010	3100207AA\00207_71.D	ND	PPB			< RL	Pass
WA060820090014-001 MD	2/9/2010	3100207AA\00207_75.D	ND			0.00	RPD < 15 %	PassSurr. Low Rec)
CV	2/9/2010	3100207AA\00207_78.D	487.5	PPB	500	97.50	80 - 120 %	Pass
CB	2/9/2010	3100207AA\00207_80.D	ND	PPB			< RL	Pass
LCS	2/9/2010	3100207AA\00207_81.D	NA				70 - 130 %	Pass
LCS DUP	2/9/2010	3100207AA\00207_82.D	NA				70 - 130 % / RPD < 15%	Pass
MB	2/9/2010	3100207AA\00207_83.D	ND	PPB			< RL	Pass
WA110820090010-001 MD	2/9/2010	3100207AA\00207_85.D	ND			0.00	RPD < 15 %	Pass
WA110820090010-001 MS	2/9/2010	3100207AA\00207_86.D	NA				70 - 130 %	Pass
WA180820090011-004 MD	2/9/2010	3100207AA\00207_95.D	ND			0.00	RPD < 15 %	Pass
WA180820090011-004 MS	2/9/2010	3100207AA\00207_96.D	NA				70 - 130 %	Pass
MB	2/9/2010	3100207AA\00207_98.D	ND	PPB			< RL	Pass
LCS	2/9/2010	3100207AA\00207_99.D	NA				70 - 130 %	Pass
LCS DUP	2/9/2010	3100207AA\00208_00.D	NA				70 - 130 % / RPD < 15%	Pass
CV	2/9/2010	3100207AA\00208_05.D	466.8	PPB	500	93.36	80 - 120 %	Pass
CB	2/9/2010	3100207AA\00208_07.D	ND	PPB			< RL	Pass
WA060120100001-003 MD	2/9/2010	3100207AA\00208_08.D	ND			0.00	RPD < 15 %	Pass
WA060120100001-003 MS	2/9/2010	3100207AA\00208_09.D	NA				70 - 130 %	Pass
CV	2/10/2010	3100207AA\00208_14.D	474.3	PPB	500	94.86	80 - 120 %	Pass
CB	2/10/2010	3100207AA\00208_16.D	ND	PPB			< RL	Pass

Date: 13 September 2010
To: CH2M Hill (technical representative)
From: Analytical Quality Associates, Inc.
Project: WMA C
Subject: PCBs - Sample Data Groups (SDGs) 20090161, 20090378, 20090365, 20090454, 20090575, 20090608 and 20090878

INTRODUCTION

This memorandum presents the results of data validation for SDGs 20090161, 20090378, 20090365, 20090454, 20090575, 20090608 and 20090878 prepared by RJ Lee*Group*, Inc., Center for Laboratory Sciences. A list of samples validated along with the analytical methods is provided in the following table.

Sample ID	Sample Date	Media	Validation Level	Analytical Method
WA210420090001-001	4-19-2009	Soil	C	8082
WA020620090002-001	5-21-2009	Soil	C	8082
WA020620090002-002	5-21-2009	Soil	C	8082
WA110620090003-001	6-03-2009	Soil	C	8082
WA110620090003-002	6-04-2009	Soil	C	8082
WA220620090005-001	6-15-2009	Soil	C	8082
WA220620090005-002	6-15-2009	Soil	C	8082
WA220620090005-003	6-15-2009	Soil	C	8082
WA110820090010-001	7-30-2009	Soil	C	8082
WA110820090010-002	7-30-2009	Soil	C	8082
WA110820090010-003	7-30-2009	Soil	C	8082
WA110820090010-004	7-30-2009	Soil	C	8082
WA110820090010-005	7-30-2009	Soil	C	8082
WA180820090011-001	8-11-2009	Soil	C	8082
WA180820090011-002	8-11-2009	Soil	C	8082
WA180820090011-003	8-11-2009	Soil	C	8082
WA180820090011-004	8-10-2009	Soil	C	8082
WA180820090011-005	8-10-2009	Soil	C	8082
WA060120100001-001	12-29-2009	Soil	C	8082
WA060120100001-002	12-29-2009	Soil	C	8082
WA060120100001-003	12-30-2009	Soil	C	8082
WA060820090014-001	8-03-2009	Water	C	8082
WA060820090014-002	8-03-2009	Water	C	8082

Data validation was conducted in accordance with the CHPRC validation statement of work and the Field Sampling and Analysis Plan for Waste Management Area C, RPP-PLAN-40564, Rev. 2 (SAP). Appendices 1 through 6 provide the following information as indicated below:

Appendix 1. Glossary of Data Reporting Qualifiers
Appendix 2. Summary of Data Qualification

Appendix 3. Annotated Laboratory Reports
Appendix 4. Laboratory Narrative and Chain-of-Custody Documentation
Appendix 5. Data Validation Supporting Documentation
Appendix 6. Additional Documentation Requested By Client

DATA QUALITY OBJECTIVES

- **Holding Times and Sample Preservation**

Holding times are calculated from Chain-of-Custody forms to determine the validity of the results. There are no holding time requirements for PCBs. Sample preservation requires chilling to 4 degrees Celsius.

All samples were properly preserved.

- **Blanks**

The blank data results are reviewed to assess the extent of contamination introduced through sampling, sample preparation, and analysis.

Laboratory Blanks

All laboratory blank results were acceptable.

Trip Blanks

No trip blanks were submitted for validation.

Field Blanks

No field blanks were submitted for validation.

Equipment Blanks

All equipment blank results were acceptable.

- **Accuracy**

Accuracy is evaluated by reviewing surrogate results, matrix spike sample results, and laboratory control sample results. According to the SAP, the matrix spike and laboratory control sample accuracy limits are 70% to 130%.

Surrogates

Surrogate recovery summary forms were not provided in the data package, and determination of surrogate recoveries from raw data was not feasible. The client was notified and instructed AQA to not perform surrogate recovery assessment. No sample data should be qualified as a result.

Matrix Spike (MS) Samples

All MS recoveries were acceptable.

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Samples

All LCS/LCSD recoveries were acceptable with the following exceptions.

For SDG 20090575 (water), the aroclor-1016 LCS recovery was below the lower acceptance limit, and the aroclor-1260 LCSD recovery was above the upper acceptance limit. The aroclor-1016, -1221, -1232, -1242, -1248, and -1254 results for samples WA060820090014-001 and WA060820090014-002 were non-detects and should be qualified as estimates and flagged "UJ" for the aroclor-1016 LCS recovery infraction. No sample results should be qualified for the aroclor-1260 LCSD recovery infraction.

- **Precision**

Precision is evaluated by reviewing LCS/LCSD results, laboratory duplicate sample results, field duplicate sample results, and field split sample results. These QC results provide information on the laboratory reproducibility and whether sampling activities are adequate to acquire consistent sample results. According to the SAP, the relative percent difference (RPD) limits are ±30%. When duplicate RPDs for soils exceed the limits and have associated results <5X the SAP required detection limits with differences <2X the required detection limits no precision infraction occurred. When duplicate RPDs for waters exceed the limits and have associated results <5X the required SAP detection limits with differences <1X the required detection limits no precision infraction occurred.

LCS/LCSD Samples

All LCS/LCSD RPD values were acceptable with the following exceptions.

For SDG 20090575 (water), the aroclor-1016 and aroclor-1260 RPDs were above the acceptance limit. All aroclor results for samples WA060820090014-001 and WA060820090014-002 were non-detects and should be qualified as estimates and flagged "UJ."

Laboratory Duplicate Samples

All laboratory duplicate results were acceptable.

Field Duplicate Samples

No field duplicates were submitted for validation.

Field Split Samples

No field splits were submitted for validation.

- **Detection Limits**

Reported MDLs are compared against the contractually required detection limits (CRDLs) to ensure that laboratory detection limits meet the required criteria.

All reported sample MDLs were below the CRDLs.

- **Completeness**

SDGs 20090161, 20090378, 20090365, 20090454, 20090575, 20090608 and 20090878 were submitted for validation and verified for completeness. Completeness is based on the percentage of data determined to be valid (i.e., not rejected). The completion percentage was 100%.

MAJOR DEFICIENCIES

None found.

MINOR DEFICIENCIES

Minor deficiencies leading to qualification of results as estimates for samples WA060820090014-001 and WA060820090014-002 were due to LCS/LCSD infractions.

REFERENCES

HNF-20433, Rev. 0, *Data Validation Procedure for Chemical Analyses*, June 2004.

RPP-PLAN-40564, Rev. 2, *Field Sampling and Analysis Plan for Waste Management Area C*, December 2009.

SOW 21065-39, Requisition # 184081, Rev. 0, *General Contractor-Technical Statement of Work*, February 2009.

Appendix 1

Glossary of Data Reporting Qualifiers

Qualifiers that may be applied by data validators in compliance with the CHPRC statement of work are as follows:

- **U** — The constituent was analyzed for and was not detected. The data should be considered usable for decision-making purposes.

- **UJ** — The constituent was analyzed for and was not detected. Due to a quality control deficiency identified during data validation the value reported may not accurately reflect the MDL. The data should be considered usable for decision-making purposes.

- **J** — Indicates the constituent was analyzed for and detected. The associated value is estimated due to a quality control deficiency identified during data validation. The data should be considered usable for decision-making purposes.

- **UR** — Indicates the constituent was analyzed for and not detected; however, due to an identified quality control deficiency the data should be considered unusable for decision-making purposes.

- **R** — Indicates the constituent was analyzed for and detected; however, due to an identified quality control deficiency the data should be considered unusable for decision-making purposes.

Appendix 2

Summary of Data Qualification

Pesticides Data Qualification Summary			
SDGs: 20090161, 20090378, 20090365, 20090454, 20090575, 20090608, 20090878	Reviewer: AQA	Project: WMA C	Page 1 of 1
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254	UJ	WA060820090014-001 WA060820090014-002	Low aroclor-1016 LCS recovery, poor aroclor-1016 and aroclor-1260 LCS/LCSD precision
Aroclor-1260	UJ	WA060820090014-001 WA060820090014-002	Poor aroclor-1260 LCS/LCSD precision

Comments: None

Appendix 3

Annotated Laboratory Reports

RJ Lee*Group*, Inc.|Center for Laboratory Sciences
2710 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA210420090001
Address:	2440 Stevens Center	Samples Received:	04/21/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/09
Telephone:	509-373-1883	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090161

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier
S09V000227	WA210420090001-001	4/14/2009	Aroclor 1016	12674-11-2	10.855	97.9	<19.52	<10.03	<10.03	N/A	10.03	
S09V000227	WA210420090001-001	4/14/2009	Aroclor 1221	11104-28-2	10.855	NA	<19.52	<10.03	<10.03	N/A	10.03	
S09V000227	WA210420090001-001	4/14/2009	Aroclor 1232	11141-16-5	10.855	NA	<19.52	<10.03	<10.03	N/A	10.03	
S09V000227	WA210420090001-001	4/14/2009	Aroclor 1242	53469-21-9	10.855	NA	<19.52	<10.03	<10.03	N/A	10.03	
S09V000227	WA210420090001-001	4/14/2009	Aroclor 1248	12672-29-6	10.855	NA	<19.52	<10.03	<10.03	N/A	10.03	
S09V000227	WA210420090001-001	4/14/2009	Aroclor 1254	11097-69-1	10.855	NA	<19.52	<10.03	<10.03	N/A	10.03	
S09V000227	WA210420090001-001	4/14/2009	Aroclor 1260	11096-82-5	10.855	87.0	<19.52	<10.03	<10.03	N/A	10.03	

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
H = Holding time exceedance
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Technical Manager: Mr. L. Joseph Sears

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in acordance with ISO 17025 guidelines, and holds limited scopes of accreditation under EPA ID WA01195, NY NELAP Lab Code 11829, CA ELAP Certificate 2574, WA DOE Lab ID C1928, MD DHMH Certificate 312, and LELAP Certificate 04121, OR ORELAP ID WA200005. This report may not be used ot claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or th the sample(s) as received by the laboratory. Quality control data is available upon request.

RJ Lee*Group*, Inc. | **Center for Laboratory Sciences**
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Tel: (509) 545-4989 | Fax: (509) 544-6010

Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA020620090002
Address:	2440 Stevens Center	Samples Received:	06/02/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/09
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier
S09V000635	WA020620090002-001	5/21/2009	Aroclor 1016	12674-11-2	5.179	97.9	<19.52	<20.714	N/A	N/A	20.714	
S09V000635	WA020620090002-001	5/21/2009	Aroclor 1221	11104-28-2	5.179	N/A	<19.52	<20.714	N/A	N/A	20.714	
S09V000635	WA020620090002-001	5/21/2009	Aroclor 1232	11141-16-5	5.179	N/A	<19.52	<20.714	N/A	N/A	20.714	
S09V000635	WA020620090002-001	5/21/2009	Aroclor 1242	53469-21-9	5.179	N/A	<19.52	<20.714	N/A	N/A	20.714	
S09V000635	WA020620090002-001	5/21/2009	Aroclor 1248	12672-29-6	5.179	N/A	<19.52	<20.714	N/A	N/A	20.714	
S09V000635	WA020620090002-001	5/21/2009	Aroclor 1254	11097-69-1	5.179	N/A	<19.52	<20.714	N/A	N/A	20.714	
S09V000635	WA020620090002-001	5/21/2009	Aroclor 1260	11096-82-5	5.179	87.0	<19.52	<20.714	N/A	N/A	20.714	
S09V000651	WA020620090002-002	5/21/2009	Aroclor 1016	12674-11-2	5.302	97.9	<19.52	<20.163	<20.163	N/A	20.163	s,S
S09V000651	WA020620090002-002	5/21/2009	Aroclor 1221	11104-28-2	5.302	N/A	<19.52	<20.163	<20.163	N/A	20.163	s,S
S09V000651	WA020620090002-002	5/21/2009	Aroclor 1232	11141-16-5	5.302	N/A	<19.52	<20.163	<20.163	N/A	20.163	s,S
S09V000651	WA020620090002-002	5/21/2009	Aroclor 1242	53469-21-9	5.302	N/A	<19.52	<20.163	<20.163	N/A	20.163	s,S
S09V000651	WA020620090002-002	5/21/2009	Aroclor 1248	12672-29-6	5.302	N/A	<19.52	<20.163	<20.163	N/A	20.163	s,S
S09V000651	WA020620090002-002	5/21/2009	Aroclor 1254	11097-69-1	5.302	N/A	<19.52	<20.163	<20.163	N/A	20.163	s,S
S09V000651	WA020620090002-002	5/21/2009	Aroclor 1260	11096-82-5	5.302	87.0	<19.52	25.2	<20.163	N/A	20.163	s,S

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments: The matrix spike was doubled spiked with surrogate and standard therefore the "s" and "S" qualifer.

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA020620090002
Address:	2440 Stevens Center	Samples Received:	06/02/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/09
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090378

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

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Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090003
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/09, 02/05/10
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier
S09V000510	WA110620090003-001	6/3/2009	Aroclor 1016	12674-11-2	5.117	87.5	<19.64	<21.03	N/A	N/A	21.03	
S09V000510	WA110620090003-001	6/3/2009	Aroclor 1221	11104-28-2	5.117	NA	<19.64	<21.03	N/A	N/A	21.03	
S09V000510	WA110620090003-001	6/3/2009	Aroclor 1232	11141-16-5	5.117	NA	<19.64	<21.03	N/A	N/A	21.03	
S09V000510	WA110620090003-001	6/3/2009	Aroclor 1242	53469-21-9	5.117	NA	<19.64	<21.03	N/A	N/A	21.03	
S09V000510	WA110620090003-001	6/3/2009	Aroclor 1248	12672-29-6	5.117	NA	<19.64	<21.03	N/A	N/A	21.03	
S09V000510	WA110620090003-001	6/3/2009	Aroclor 1254	11097-69-1	5.117	NA	<19.64	<21.03	N/A	N/A	21.03	
S09V000510	WA110620090003-001	6/3/2009	Aroclor 1260	11096-82-5	5.117	83.6	<19.64	<21.03	N/A	N/A	21.03	
S09V000554	WA110620090003-002	6/4/2009	Aroclor 1016	12674-11-2	5.119	97.9	<19.52	<20.59	<20.59	N/A	20.59	
S09V000554	WA110620090003-002	6/4/2009	Aroclor 1221	11104-28-2	5.119	NA	<19.52	<20.59	<20.59	N/A	20.59	
S09V000554	WA110620090003-002	6/4/2009	Aroclor 1232	11141-16-5	5.119	NA	<19.52	<20.59	<20.59	N/A	20.59	
S09V000554	WA110620090003-002	6/4/2009	Aroclor 1242	53469-21-9	5.119	NA	<19.52	<20.59	<20.59	N/A	20.59	
S09V000554	WA110620090003-002	6/4/2009	Aroclor 1248	12672-29-6	5.119	NA	<19.52	<20.59	<20.59	N/A	20.59	
S09V000554	WA110620090003-002	6/4/2009	Aroclor 1254	11097-69-1	5.119	NA	<19.52	<20.59	<20.59	N/A	20.59	
S09V000554	WA110620090003-002	6/4/2009	Aroclor 1260	11096-82-5	5.119	87.0	<19.52	<20.59	<20.59	N/A	20.59	

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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2711 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6011

Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110620090003
Address:	2440 Stevens Center	Samples Received:	06/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/09, 02/05/10
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090365

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

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Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA220620090005
Address:	2440 Stevens Center	Samples Received:	06/22/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/2009,2/5/10
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090454

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier
S09V000761	WA220620090005-001	6/15/2009	Aroclor 1016	12674-11-2	5.150	97.9	<19.52	<20.425	<20.425	N/A	20.425	
S09V000761	WA220620090005-001	6/15/2009	Aroclor 1221	11104-28-2	5.150	NA	<19.52	<20.425	<20.425	N/A	20.425	
S09V000761	WA220620090005-001	6/15/2009	Aroclor 1232	11141-16-5	5.150	NA	<19.52	<20.425	<20.425	N/A	20.425	
S09V000761	WA220620090005-001	6/15/2009	Aroclor 1242	53469-21-9	5.150	NA	<19.52	<20.425	<20.425	N/A	20.425	
S09V000761	WA220620090005-001	6/15/2009	Aroclor 1248	12672-29-6	5.150	NA	<19.52	<20.425	<20.425	N/A	20.425	
S09V000761	WA220620090005-001	6/15/2009	Aroclor 1254	11097-69-1	5.150	NA	<19.52	<20.425	<20.425	N/A	20.425	
S09V000761	WA220620090005-001	6/15/2009	Aroclor 1260	11096-82-5	5.150	87.0	<19.52	<20.425	<20.425	N/A	20.425	
S09V000762	WA220620090005-002	6/15/2009	Aroclor 1016	12674-11-2	5.568	87.5	<19.64	<19.342	N/A	N/A	19.342	
S09V000762	WA220620090005-002	6/15/2009	Aroclor 1221	11104-28-2	5.568	NA	<19.64	<19.342	N/A	N/A	19.342	
S09V000762	WA220620090005-002	6/15/2009	Aroclor 1232	11141-16-5	5.568	NA	<19.64	<19.342	N/A	N/A	19.342	
S09V000762	WA220620090005-002	6/15/2009	Aroclor 1242	53469-21-9	5.568	NA	<19.64	<19.342	N/A	N/A	19.342	
S09V000762	WA220620090005-002	6/15/2009	Aroclor 1248	12672-29-6	5.568	NA	<19.64	<19.342	N/A	N/A	19.342	
S09V000762	WA220620090005-002	6/15/2009	Aroclor 1254	11097-69-1	5.568	NA	<19.64	<19.342	N/A	N/A	19.342	
S09V000762	WA220620090005-002	6/15/2009	Aroclor 1260	11096-82-5	5.568	83.6	<19.64	26.8	N/A	N/A	19.342	
S09V000763	WA220620090005-003	6/15/2009	Aroclor 1016	12674-11-2	5.484	87.5	<19.64	<19.149	N/A	N/A	19.149	
S09V000763	WA220620090005-003	6/15/2009	Aroclor 1221	11104-28-2	5.484	NA	<19.64	<19.149	N/A	N/A	19.149	
S09V000763	WA220620090005-003	6/15/2009	Aroclor 1232	11141-16-5	5.484	NA	<19.64	<19.149	N/A	N/A	19.149	
S09V000763	WA220620090005-003	6/15/2009	Aroclor 1242	53469-21-9	5.484	NA	<19.64	<19.149	N/A	N/A	19.149	
S09V000763	WA220620090005-003	6/15/2009	Aroclor 1248	12672-29-6	5.484	NA	<19.64	<19.149	N/A	N/A	19.149	
S09V000763	WA220620090005-003	6/15/2009	Aroclor 1254	11097-69-1	5.484	NA	<19.64	<19.149	N/A	N/A	19.149	
S09V000763	WA220620090005-003	6/15/2009	Aroclor 1260	11096-82-5	5.484	83.6	<19.64	<19.149	N/A	N/A	19.149	

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

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Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA220620090005
Address:	2440 Stevens Center	Samples Received:	06/22/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/2009,2/5/10
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090454

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
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I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
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Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Polychlorinated Biphenyls by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA060820090014
Address:	2440 Stevens Center	Samples Received:	08/06/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/09
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (µg/L)	Results (µg/L)	Duplicate (µg/L)	RPD	Quant. Limit (µg/L)	Qualifier	
S09V000937	WA060820090014-001	8/3/2009	Aroclor 1016	12674-11-2	43.7	<0.1	<0.27	<0.27	N/A	0.27	a,c,S, Q	UJ
S09V000937	WA060820090014-001	8/3/2009	Aroclor 1221	11104-28-2	NA	<0.1	<0.27	<0.27	N/A	0.27	a,c,S, Q	UJ
S09V000937	WA060820090014-001	8/3/2009	Aroclor 1232	11141-16-5	NA	<0.1	<0.27	<0.27	N/A	0.27	a,c,S, Q	UJ
S09V000937	WA060820090014-001	8/3/2009	Aroclor 1242	53469-21-9	NA	<0.1	<0.27	<0.27	N/A	0.27	a,c,S, Q	UJ
S09V000937	WA060820090014-001	8/3/2009	Aroclor 1248	12672-29-6	NA	<0.1	<0.27	<0.27	N/A	0.27	a,c,S, Q	UJ
S09V000937	WA060820090014-001	8/3/2009	Aroclor 1254	11097-69-1	NA	<0.1	<0.27	<0.27	N/A	0.27	a,c,S, Q	UJ
S09V000937	WA060820090014-001	8/3/2009	Aroclor 1260	11096-82-5	114.2	<0.1	<0.27	<0.27	N/A	0.27	a,c,S, Q	UJ
S09V000938	WA060820090014-002	8/3/2009	Aroclor 1016	12674-11-2	43.7	<0.1	<0.27	N/A	N/A	0.27	a,c,S, Q	UJ
S09V000938	WA060820090014-002	8/3/2009	Aroclor 1221	11104-28-2	NA	<0.1	<0.27	N/A	N/A	0.27	a,c,S, Q	UJ
S09V000938	WA060820090014-002	8/3/2009	Aroclor 1232	11141-16-5	NA	<0.1	<0.27	N/A	N/A	0.27	a,c,S, Q	UJ
S09V000938	WA060820090014-002	8/3/2009	Aroclor 1242	53469-21-9	NA	<0.1	<0.27	N/A	N/A	0.27	a,c,S, Q	UJ
S09V000938	WA060820090014-002	8/3/2009	Aroclor 1248	12672-29-6	NA	<0.1	<0.27	N/A	N/A	0.27	a,c,S, Q	UJ
S09V000938	WA060820090014-002	8/3/2009	Aroclor 1254	11097-69-1	NA	<0.1	<0.27	N/A	N/A	0.27	a,c,S, Q	UJ
S09V000938	WA060820090014-002	8/3/2009	Aroclor 1260	11096-82-5	114.2	<0.1	<0.27	N/A	N/A	0.27	a,c,S, Q	UJ

Comments:

Qualifiers

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LS
9-13-2010

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Polychlorinated Biphenyls by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA060820090014
Address:	2440 Stevens Center	Samples Received:	08/06/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/15/09
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	LCS %Rec	MB (µg/L)	Results (µg/L)	Duplicate (µg/L)	RPD	Quant. Limit (µg/L)	Qualifier

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Polychlorinated Biphenyls-Aroclors by EPA 8082

Client: Washington River Protection Solutions
Address: 2440 Stevens Center
Richland, WA 99352 MSIN T6-02
Attention: Steve McKinney
Telephone: 509-372-1945
Fax: 509-372-1878

RJ Lee Group Project: WA110820090010
Samples Received: 08/11/09
Report Date: 03/08/10
Prep Date: 10/16/10
Analysis Date: 2/4/10-2/6/10
Client Project: Vadose
Lab Group No.: 20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier
S09V000865	WA110820090010-001	7/30/2009	Aroclor 1016	12674-11-2	5.443	96.9	<17.78	<18.68	<18.68	N/A	18.68	
S09V000865	WA110820090010-001	7/30/2009	Aroclor 1221	11104-28-2	5.443	N/A	<17.78	<18.68	<18.68	N/A	18.68	
S09V000865	WA110820090010-001	7/30/2009	Aroclor 1232	11141-16-5	5.443	N/A	<17.78	<18.68	<18.68	N/A	18.68	
S09V000865	WA110820090010-001	7/30/2009	Aroclor 1242	53469-21-9	5.443	N/A	<17.78	<18.68	<18.68	N/A	18.68	
S09V000865	WA110820090010-001	7/30/2009	Aroclor 1248	12672-29-6	5.443	N/A	<17.78	<18.68	<18.68	N/A	18.68	
S09V000865	WA110820090010-001	7/30/2009	Aroclor 1254	11097-69-1	5.443	N/A	<17.78	<18.68	<18.68	N/A	18.68	
S09V000865	WA110820090010-001	7/30/2009	Aroclor 1260	11096-82-5	5.443	81.1	<17.78	<18.68	<18.68	N/A	18.68	
S09V000878	WA110820090010-002	7/30/2009	Aroclor 1016	12674-11-2	5.441	96.9	<17.78	<18.67	N/A	N/A	18.67	
S09V000878	WA110820090010-002	7/30/2009	Aroclor 1221	11104-28-2	5.441	N/A	<17.78	<18.67	N/A	N/A	18.67	
S09V000878	WA110820090010-002	7/30/2009	Aroclor 1232	53469-21-9	5.441	N/A	<17.78	<18.67	N/A	N/A	18.67	
S09V000878	WA110820090010-002	7/30/2009	Aroclor 1242	53469-21-9	5.441	N/A	<17.78	<18.67	N/A	N/A	18.67	
S09V000878	WA110820090010-002	7/30/2009	Aroclor 1248	12672-29-6	5.441	N/A	<17.78	<18.67	N/A	N/A	18.67	
S09V000878	WA110820090010-002	7/30/2009	Aroclor 1254	11097-69-1	5.441	N/A	<17.78	<18.67	N/A	N/A	18.67	
S09V000878	WA110820090010-002	7/30/2009	Aroclor 1260	11096-82-5	5.441	81.1	<17.78	<18.67	N/A	N/A	18.67	
S09V000906	WA110820090010-003	7/30/2009	Aroclor 1016	12674-11-2	5.622	96.9	<17.78	<18.56	N/A	N/A	18.56	
S09V000906	WA110820090010-003	7/30/2009	Aroclor 1221	11104-28-2	5.622	N/A	<17.78	<18.56	N/A	N/A	18.56	
S09V000906	WA110820090010-003	7/30/2009	Aroclor 1232	11141-16-5	5.622	N/A	<17.78	<18.56	N/A	N/A	18.56	
S09V000906	WA110820090010-003	7/30/2009	Aroclor 1242	53469-21-9	5.622	N/A	<17.78	<18.56	N/A	N/A	18.56	
S09V000906	WA110820090010-003	7/30/2009	Aroclor 1248	12672-29-6	5.622	N/A	<17.78	<18.56	N/A	N/A	18.56	
S09V000906	WA110820090010-003	7/30/2009	Aroclor 1254	11097-69-1	5.622	N/A	<17.78	<18.56	N/A	N/A	18.56	
S09V000906	WA110820090010-003	7/30/2009	Aroclor 1260	11096-82-5	5.622	81.1	<17.78	<18.56	N/A	N/A	18.56	
S09V000907	WA110820090010-004	7/30/2009	Aroclor 1016	12674-11-2	6.499	96.9	<17.78	<15.68	N/A	N/A	15.68	
S09V000907	WA110820090010-004	7/30/2009	Aroclor 1221	11104-28-2	6.499	N/A	<17.78	<15.68	N/A	N/A	15.68	
S09V000907	WA110820090010-004	7/30/2009	Aroclor 1232	11141-16-5	6.499	N/A	<17.78	<15.68	N/A	N/A	15.68	
S09V000907	WA110820090010-004	7/30/2009	Aroclor 1242	53469-21-9	6.499	N/A	<17.78	<15.68	N/A	N/A	15.68	
S09V000907	WA110820090010-004	7/30/2009	Aroclor 1248	12672-29-6	6.499	N/A	<17.78	<15.68	N/A	N/A	15.68	
S09V000907	WA110820090010-004	7/30/2009	Aroclor 1254	11097-69-1	6.499	N/A	<17.78	<15.68	N/A	N/A	15.68	
S09V000907	WA110820090010-004	7/30/2009	Aroclor 1260	11096-82-5	6.499	81.1	<17.78	<15.68	N/A	N/A	15.68	
S09V000908	WA110820090010-005	7/30/2009	Aroclor 1016	12674-11-2	5.609	96.9	<17.78	<18.29	N/A	N/A	18.29	
S09V000908	WA110820090010-005	7/30/2009	Aroclor 1221	11104-28-2	5.609	N/A	<17.78	<18.29	N/A	N/A	18.29	
S09V000908	WA110820090010-005	7/30/2009	Aroclor 1232	11141-16-5	5.609	N/A	<17.78	<18.29	N/A	N/A	18.29	
S09V000908	WA110820090010-005	7/30/2009	Aroclor 1242	53469-21-9	5.609	N/A	<17.78	<18.29	N/A	N/A	18.29	
S09V000908	WA110820090010-005	7/30/2009	Aroclor 1248	12672-29-6	5.609	N/A	<17.78	<18.29	N/A	N/A	18.29	
S09V000908	WA110820090010-005	7/30/2009	Aroclor 1254	11097-69-1	5.609	N/A	<17.78	<18.29	N/A	N/A	18.29	
S09V000908	WA110820090010-005	7/30/2009	Aroclor 1260	11096-82-5	5.609	81.1	<17.78	<18.29	N/A	N/A	18.29	

RJ Lee*Group*, Inc. | **Center for Laboratory Sciences**
2711 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6011

Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA110820090010
Address:	2440 Stevens Center	Samples Received:	08/11/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/08/10
Attention:	Steve McKinney	Prep Date:	10/16/10
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090575

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in acordance with ISO 17025 guidelines, and holds limited scopes of accreditation under EPA ID WA01195, NY NELAP Lab Code 11829, CA ELAP Certificate 2574, WA DOE Lab ID C1928, MD DHMH Certificate 312, and LELAP Certificate 04121, OR ORELAP ID WA200005. This report may not be used ot claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or th the sample(s) as received by the laboratory. Quality control data is available upon request.

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Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA180820090011
Address:	2440 Stevens Center	Samples Received:	08/18/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/16/09
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier
S09V001189	WA180820090011-001	8/11/2009	Aroclor 1016	12674-11-2	5.387	96.9	<17.78	<19.18	N/A	N/A	19.18	
S09V001189	WA180820090011-001	8/11/2009	Aroclor 1221	11104-28-2	5.387	N/A	<17.78	<19.18	N/A	N/A	19.18	
S09V001189	WA180820090011-001	8/11/2009	Aroclor 1232	11141-16-5	5.387	N/A	<17.78	<19.18	N/A	N/A	19.18	
S09V001189	WA180820090011-001	8/11/2009	Aroclor 1242	53469-21-9	5.387	N/A	<17.78	<19.18	N/A	N/A	19.18	
S09V001189	WA180820090011-001	8/11/2009	Aroclor 1248	12672-29-6	5.387	N/A	<17.78	<19.18	N/A	N/A	19.18	
S09V001189	WA180820090011-001	8/11/2009	Aroclor 1254	11097-69-1	5.387	N/A	<17.78	<19.18	N/A	N/A	19.18	
S09V001189	WA180820090011-001	8/11/2009	Aroclor 1260	11096-82-5	5.387	81.1	<17.78	<19.18	N/A	N/A	19.18	
S09V001190	WA180820090011-002	8/11/2009	Aroclor 1016	12674-11-2	5.470	96.9	<17.78	<18.88	N/A	N/A	18.88	
S09V001190	WA180820090011-002	8/11/2009	Aroclor 1221	11104-28-2	5.470	N/A	<17.78	<18.88	N/A	N/A	18.88	
S09V001190	WA180820090011-002	8/11/2009	Aroclor 1232	11141-16-5	5.470	N/A	<17.78	<18.88	N/A	N/A	18.88	
S09V001190	WA180820090011-002	8/11/2009	Aroclor 1242	53469-21-9	5.470	N/A	<17.78	<18.88	N/A	N/A	18.88	
S09V001190	WA180820090011-002	8/11/2009	Aroclor 1248	12672-29-6	5.470	N/A	<17.78	<18.88	N/A	N/A	18.88	
S09V001190	WA180820090011-002	8/11/2009	Aroclor 1254	11097-69-1	5.470	N/A	<17.78	<18.88	N/A	N/A	18.88	
S09V001190	WA180820090011-002	8/11/2009	Aroclor 1260	11096-82-5	5.470	81.1	<17.78	20.6	N/A	N/A	18.88	
S09V001191	WA180820090011-003	8/11/2009	Aroclor 1016	12674-11-2	5.392	96.9	<17.78	<19.05	N/A	N/A	19.05	
S09V001191	WA180820090011-003	8/11/2009	Aroclor 1221	11104-28-2	5.392	N/A	<17.78	<19.05	N/A	N/A	19.05	
S09V001191	WA180820090011-003	8/11/2009	Aroclor 1232	11141-16-5	5.392	N/A	<17.78	<19.05	N/A	N/A	19.05	
S09V001191	WA180820090011-003	8/11/2009	Aroclor 1242	53469-21-9	5.392	N/A	<17.78	<19.05	N/A	N/A	19.05	
S09V001191	WA180820090011-003	8/11/2009	Aroclor 1248	12672-29-6	5.392	N/A	<17.78	<19.05	N/A	N/A	19.05	
S09V001191	WA180820090011-003	8/11/2009	Aroclor 1254	11097-69-1	5.392	N/A	<17.78	<19.05	N/A	N/A	19.05	
S09V001191	WA180820090011-003	8/11/2009	Aroclor 1260	11096-82-5	5.392	81.1	<17.78	<19.05	N/A	N/A	19.05	
S09V001072	WA180820090011-004	8/10/2009	Aroclor 1016	12674-11-2	5.377	96.9	<17.78	<18.75	<18.75	N/A	18.75	
S09V001072	WA180820090011-004	8/10/2009	Aroclor 1221	11104-28-2	5.377	N/A	<17.78	<18.75	<18.75	N/A	18.75	
S09V001072	WA180820090011-004	8/10/2009	Aroclor 1232	11141-16-5	5.377	N/A	<17.78	<18.75	<18.75	N/A	18.75	
S09V001072	WA180820090011-004	8/10/2009	Aroclor 1242	53469-21-9	5.377	N/A	<17.78	<18.75	<18.75	N/A	18.75	
S09V001072	WA180820090011-004	8/10/2009	Aroclor 1248	12672-29-6	5.377	N/A	<17.78	<18.75	<18.75	N/A	18.75	
S09V001072	WA180820090011-004	8/10/2009	Aroclor 1254	11097-69-1	5.377	N/A	<17.78	<18.75	<18.75	N/A	18.75	
S09V001072	WA180820090011-004	8/10/2009	Aroclor 1260	11096-82-5	5.377	81.1	<17.78	<18.75	<18.75	N/A	18.75	
S09V001073	WA180820090011-005	8/10/2009	Aroclor 1016	12674-11-2	5.557	96.9	<17.78	<18.14	N/A	N/A	18.14	
S09V001073	WA180820090011-005	8/10/2009	Aroclor 1221	11104-28-2	5.557	N/A	<17.78	<18.14	N/A	N/A	18.14	
S09V001073	WA180820090011-005	8/10/2009	Aroclor 1232	11141-16-5	5.557	N/A	<17.78	<18.14	N/A	N/A	18.14	
S09V001073	WA180820090011-005	8/10/2009	Aroclor 1242	53469-21-9	5.557	N/A	<17.78	<18.14	N/A	N/A	18.14	
S09V001073	WA180820090011-005	8/10/2009	Aroclor 1248	12672-29-6	5.557	N/A	<17.78	<18.14	N/A	N/A	18.14	
S09V001073	WA180820090011-005	8/10/2009	Aroclor 1254	11097-69-1	5.557	N/A	<17.78	<18.14	N/A	N/A	18.14	
S09V001073	WA180820090011-005	8/10/2009	Aroclor 1260	11096-82-5	5.557	81.1	<17.78	<18.14	N/A	N/A	18.14	

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Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project:	WA180820090011
Address:	2440 Stevens Center	Samples Received:	08/18/09
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	10/16/09
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090608

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
S = Surrogate recovery failure; concentration should be considered an estimate (result beyond +/- 30% of expected value)
s = Failed percent recovery criteria for the target analyte in the matrix spike (results beyond +/-30% of expected value).
a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).
c = RPD failure (results beyond +/-30% of expected value)

Authorized Signature: L Joseph Sears
Joe Sears, Technical Manager

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Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project	WA060120100001
Address:	2440 Stevens Center	Samples Received:	01/06/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/05/10
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier
S09V001642	WA060120100001-001	12/29/2009	Aroclor 1016	12674-11-2	6.004	87.5	<19.64	<19.62	N/A	N/A	19.62	
S09V001642	WA060120100001-001	12/29/2009	Aroclor 1221	11104-28-2	6.004	NA	<19.64	<19.62	N/A	N/A	19.62	
S09V001642	WA060120100001-001	12/29/2009	Aroclor 1232	11141-16-5	6.004	NA	<19.64	<19.62	N/A	N/A	19.62	
S09V001642	WA060120100001-001	12/29/2009	Aroclor 1242	53469-21-9	6.004	NA	<19.64	<19.62	N/A	N/A	19.62	
S09V001642	WA060120100001-001	12/29/2009	Aroclor 1248	12672-29-6	6.004	NA	<19.64	<19.62	N/A	N/A	19.62	
S09V001642	WA060120100001-001	12/29/2009	Aroclor 1254	11097-69-1	6.004	NA	<19.64	<19.62	N/A	N/A	19.62	
S09V001642	WA060120100001-001	12/29/2009	Aroclor 1260	11096-82-5	6.004	83.6	<19.64	<19.62	N/A	N/A	19.62	
S09V001657	WA060120100001-002	12/29/2009	Aroclor 1016	12674-11-2	5.527	87.5	<19.64	<19.04	N/A	N/A	19.04	
S09V001657	WA060120100001-002	12/29/2009	Aroclor 1221	11104-28-2	5.527	NA	<19.64	<19.04	N/A	N/A	19.04	
S09V001657	WA060120100001-002	12/29/2009	Aroclor 1232	11141-16-5	5.527	NA	<19.64	<19.04	N/A	N/A	19.04	
S09V001657	WA060120100001-002	12/29/2009	Aroclor 1242	53469-21-9	5.527	NA	<19.64	<19.04	N/A	N/A	19.04	
S09V001657	WA060120100001-002	12/29/2009	Aroclor 1248	12672-29-6	5.527	NA	<19.64	<19.04	N/A	N/A	19.04	
S09V001657	WA060120100001-002	12/29/2009	Aroclor 1254	11097-69-1	5.527	NA	<19.64	<19.04	N/A	N/A	19.04	
S09V001657	WA060120100001-002	12/29/2009	Aroclor 1260	11096-82-5	5.527	83.6	<19.64	<19.04	N/A	N/A	19.04	
S09V001687	WA060120100001-003	12/30/2009	Aroclor 1016	12674-11-2	5.689	87.5	<19.64	<18.41	<18.41	N/A	18.41	
S09V001687	WA060120100001-003	12/30/2009	Aroclor 1221	11104-28-2	5.689	NA	<19.64	<18.41	<18.41	N/A	18.41	
S09V001687	WA060120100001-003	12/30/2009	Aroclor 1232	11141-16-5	5.689	NA	<19.64	<18.41	<18.41	N/A	18.41	
S09V001687	WA060120100001-003	12/30/2009	Aroclor 1242	53469-21-9	5.689	NA	<19.64	<18.41	<18.41	N/A	18.41	
S09V001687	WA060120100001-003	12/30/2009	Aroclor 1248	12672-29-6	5.689	NA	<19.64	<18.41	<18.41	N/A	18.41	
S09V001687	WA060120100001-003	12/30/2009	Aroclor 1254	11097-69-1	5.689	NA	<19.64	<18.41	<18.41	N/A	18.41	
S09V001687	WA060120100001-003	12/30/2009	Aroclor 1260	11096-82-5	5.689	83.6	<19.64	<18.41	<18.41	N/A	18.41	

* All solid matricies reported on a dry weight basis unless otherwise noted.
* All values reported without blank correction unless otherwise noted

Comments:

Qualifiers

B = Compound found in associated laboratory blank as well as sample
D = Diluted sample
E = Report concentration was above the instrumental calibration range
H = Holding time exceedance
I = Response failure of an internal standard; concentration should be considered an estimate (result beyond +/-30% of expected value)
Q = Quality control sample out of acceptable limits. (result beyond +/- 40% of expected value)
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a = Failed percent recovery criteria for the target analyte in the calibration verification standard and/or laboratory control sample (results beyond +/-30% of expected value).

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Polychlorinated Biphenyls-Aroclors by EPA 8082

Client:	Washington River Protection Solutions	RJ Lee Group Project	WA060120100001
Address:	2440 Stevens Center	Samples Received:	01/06/10
	Richland, WA 99352 MSIN T6-02	Report Date:	03/11/10
Attention:	Steve McKinney	Prep Date:	02/05/10
Telephone:	509-372-1945	Analysis Date:	2/4/10-2/6/10
Fax:	509-372-1878	Client Project:	Vadose
		Lab Group No.:	20090878

Sample Identification IH	Sample Identification RJLG	Sampling Date	Analyte	CAS #	Sample Wt. (g)	LCS %Rec	MB (µg/kg)	Results (µg/kg)	Duplicate (µg/kg)	RPD	Quant. Limit (µg/kg)	Qualifier

c = RPD failure (results beyond +/-30% of expected value)

Appendix 4

Laboratory Narrative and Chain-of-Custody Documentation

CLS
Center for Laboratory Sciences

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Tel: (509) 545-4989 | Fax: (509) 544-6010

February 11, 2010

Washington River Protection Solutions
Attention: Steve McKinney
2440 Stevens Center
Richland, WA 99352 MSIN T6-02

Enclosed is the final report for the Vadose Soil Samples and equipment Rinsates for C-Farm. Samples were delivered to RJLee Group, Center for Laboratory Sciences (CLS) between April 2009 and January 2010. Samples were submitted to CLS and analyzed for Diesel Range Organics, Gasoline, Range Organics, Ethylene Glycol, Organochlorine Pesticides, Polychlorinated Biphenyls- Aroclors, Polychlorinated Biphenyls- Congeners, and Monobutyl and Dibutyl Phosphate.

The analysis of the Polychlorinated Biphenyls- Congeners was subcontracted to Test America Laboratories, Inc in Knoxville, TN. The analysis of Monobutyl and Dibutyl Phosphate was subcontracted to Southwest Research Institute in San Antonio, TX. Included in this report are the reports of analysis and supporting data package for each subcontracted analysis. The results for Mono and Dibutyl Phosphate have been corrected for dry weights on CLS's reports.

This report consists of ten sections, which includes Data Report Summaries, Analytical Reports, Chain of Custodies & Login Reports, Six Raw Data sections and Certificates of Analyses. A copy of this report in its entirety, along with the EDD will be delivered on a CD- Rom Disc.

The results provided in this report relate only to the items tested. Samples were received in acceptable conditions unless otherwise noted. This test report shall not be reproduced, except in full, without written approval of CLS.

This report has been reviewed and approved by the following individual:

Jonathan Kon — March 11, 2010
Jonathan Kon, Laboratory Manager — Date

If you have any questions, please feel free to contact Jonathan Kon at 509-545-4989 or email: jkon@rjlg.com.

Sample Group 20090161

DATA REPORT SUMMARY

Sample Set:	**20090161**
Receipt Date:	**April 21, 2009**
Collection Date(s):	**April 14, 2009**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA210420090001**

CLS received one (1) sample for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on April 21, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA21042009001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA21042009001

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
All criteria were met

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
An Initial Calibration Verification was not run for this sample group. A second source standard was not run either. Therefore the ICV sample requirements were not within acceptable limits for this sample group. All samples have been flagged with an "I" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair, however there was a failure of the Matrix Duplicate RPD (43.8%). A "c" flag has been applied accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA21042009001, WA270420090001 and WA070520090005

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the closing CB which had compounds present. The initial CB was analyzed and there was a surrogate failure. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
Two sets of Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) pairs were analyzed. The LCS and LCSD recoveries for the first pair were not within the acceptable limits for the sample group (1.80% and 1.1% respectively). All samples have been flagged with an "a" accordingly. The second pair was within acceptable limits.

Duplicates (Relative percent difference +/-15%)
There was a RPD failure on the first LCS/LCSD pair (48.28%) however; the second LCS/LCSD pair was within the acceptable limits. The Matrix Duplicate analyzed within the analytical batch also passed RPD criteria.

Matrix Spike (+/-30%)
The Matrix Spike Sample was analyzed on sample WA27042009001-002 and was not within acceptable limits (38.6%). All affected samples have been flagged with an "s" accordingly.

Other Comments:

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090161

DATA REPORT SUMMARY

Sample Set: **20090161**
Receipt Date: **April 27, 2009**
Collection Date(s): **April 21 & 22, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA270420090001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on April 27, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA21042009001, WA270420090001 and WA070520090005

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the closing CB which had compounds present. The initial CB was analyzed and there was a surrogate failure. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
Two sets of Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) pairs were analyzed. The LCS and LCSD recoveries for the first pair were not within the acceptable limits for the sample group (1.80% and 1.1% respectively). All samples have been flagged with an "a" accordingly. The second pair was within acceptable limits.

Duplicates (Relative percent difference +/-15%)
There was a RPD failure on the first LCS/LCSD pair (48.28%) however; the second LCS/LCSD pair was within the acceptable limits. The Matrix Duplicate analyzed within the analytical batch also passed RPD criteria.

Matrix Spike (+/-30%)
The Matrix Spike Sample was analyzed on sample WA27042009001-002 and was not within acceptable limits (38.6%). All affected samples have been flagged with an "s" accordingly.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090161

DATA REPORT SUMMARY

Sample Set: **20090161**
Receipt Date: **May 7, 2009**
Collection Date(s): **April 30, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA070520090005**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on May 7, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA21042009001, WA270420090001 and WA070520090005

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the closing CB which had compounds present. The initial CB was analyzed and there was a surrogate failure. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
Two sets of Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) pairs were analyzed. The LCS and LCSD recoveries for the first pair were not within the acceptable limits for the sample group (1.80% and 1.1% respectively). All samples have been flagged with an "a" accordingly. The second pair was within acceptable limits.

Duplicates (Relative percent difference +/-15%)
There was a RPD failure on the first LCS/LCSD pair (48.28%) however; the second LCS/LCSD pair was within the acceptable limits. The Matrix Duplicate analyzed within the analytical batch also passed RPD criteria.

Matrix Spike (+/-30%)
The Matrix Spike Sample was analyzed on sample WA27042009001-002 and was not within acceptable limits (38.6%). All affected samples have been flagged with an "s" accordingly.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090329

DATA REPORT SUMMARY

Sample Set: **20090329**
Receipt Date: **May 21, 2009**
Collection Date(s): **May 13, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA210520090002**

CLS received one (1) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on May 21, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA210520090002, WA060820090014, and WA110820090010

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits. There is no internal standard present. All samples have been flagged with an "I" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090329

DATA REPORT SUMMARY

Sample Set: **20090329**
Receipt Date: **June 2, 2009**
Collection Date(s): **May 18 & 19, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA020620090001**

CLS received three (3) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 2, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA020620090001 and WA020620090002

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was evidence of compounds present in the blank samples greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (776%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was Evidence of compounds present in the blank sample greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures on the LCS/LCSD. Work order WA020620090001 and WA020620090002 were both run in the same analytical batch. However, the RPD on the sample (WA020620090002-002) Duplicate was not in acceptable limits (181%). Affected samples have been flagged with a "c" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090378

DATA REPORT SUMMARY

Sample Set: **20090378**
Receipt Date: **June 2, 2009**
Collection Date(s): **May 21, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA020620090002**

CLS received two (2) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on June 2, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA020620090002, WA110620090003 and WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the second and closing CB which had compounds present. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (177.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair. Matrix Duplicates were analyzed on WA020620090002, WA110620090003 and WA220620090005. The Matrix Duplicate analyzed on sample WA220620090005-001 was not within acceptable limits (44.2%), however, the others were within limits. All affected samples have been flagged with an "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA020620090002 and WA110620090003

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
Matrix Spikes were analyzed and recoveries were within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA020620090001 and WA020620090002

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed for each analytical method. There was evidence of compounds present in the blank samples greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (776%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was Evidence of compounds present in the blank sample greater than the quantitation limit. Affected samples were flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures on the LCS/LCSD. Work order WA020620090001 and WA020620090002 were both run in the same analytical batch. However, the RPD on the sample (WA020620090002-002) Duplicate was not in acceptable limits (181%). Affected samples have been flagged with a "c" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pairs and Matrix Duplicates.

Matrix Spike (+/-30%)
A Matrix Spike for WA02062009002-002 was analyzed and recovery was not within the acceptance criteria. The sample was doubled spiked with surrogate and standard.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times

Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090378

DATA REPORT SUMMARY

Sample Set: **20090378**
Receipt Date: **June 9, 2009**
Collection Date(s): **June 1, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA110620090001**

CLS received one (1) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 9, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090365

DATA REPORT SUMMARY

Sample Set: **20090365**
Receipt Date: **June 11, 2009**
Collection Date(s): **June 4, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA110620090002**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 11, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090365

DATA REPORT SUMMARY

Sample Set:	**20090365**
Receipt Date:	**June 11, 2009**
Collection Date(s):	**June 3 & 4, 2009**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA110620090003**

CLS received two (2) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on June 11, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA020620090002, WA110620090003 and WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the second and closing CB which had compounds present. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (177.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair. Matrix Duplicates were analyzed on WA020620090002, WA110620090003 and WA220620090005. The Matrix Duplicate analyzed on sample WA220620090005-001 was not within acceptable limits (44.2%), however, the others were within limits.. All affected samples have been flagged with an "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA020620090002 and WA110620090003

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
Matrix Spikes were analyzed and recoveries were within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria except for Pentachlorophenol (15 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times

Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090365

DATA REPORT SUMMARY

Sample Set: **20090365**
Receipt Date: **June 15, 2009**
Collection Date(s): **June 9, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA150620090004**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on June 15, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA110620090001, WA110620090002, WA110620090003, and WA150620090004

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (816%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090454

DATA REPORT SUMMARY

Sample Set: **20090454**
Receipt Date: **June 22, 2009**
Collection Date(s): **June 15, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA220620090005**

CLS received three (3) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on June 22, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA020620090002, WA110620090003 and WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit, with the exception of the second and closing CB which had compounds present. Affected samples were flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (177.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair. Matrix Duplicates were analyzed on WA020620090002, WA110620090003 and WA220620090005. The Matrix Duplicate analyzed on sample WA220620090005-001 was not within acceptable limits (44.2%), however, the others were within limits.. All affected samples have been flagged with an "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA220620090005

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group, with the exception of the closing CV (72% recovery). Affected samples have been flagged with an "a" accordingly.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found not to be within acceptable limits (200%). A second Detection Level Standard was analyzed prior to the samples and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample

A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
There were several surrogate recovery failures for this analytical batch. WA22062009005-001, WA220620090005-001MD, WA220620090005-001MS, WA220620090005-002 and WA22062009005-003 have all been flagged with an "S" accordingly.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA220620090005 and WA200120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
[illegible]

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample

A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for beta Hexachlorocyclohexane (205%) and Pentachlorophenol (31.8 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria except for Pentachlorophenol (35 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090575

DATA REPORT SUMMARY

Sample Set: **20090575**
Receipt Date: **August 6, 2009**
Collection Date(s): **August 3, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA060820090014**

CLS received two (2) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on August 3, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA060820090014 (liquid matrix) and WA110820090010 (solid matrix)

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was evidence of compounds present in the middle and closing blank samples greater than the quantitation limit. Affected samples have been flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found not to be within acceptable limits (163.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A soil Method blank and a liquid Method blank were analyzed. Both had evidence of compounds present in the blank sample greater than the quantitation limit. All affected samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)
Two Laboratory Control Sample and Laboratory Control Sample Duplicate pairs (solid and liquid) were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There was no RPD failure of the LCS/LCSD (solid) pair or the LCS/LCSD (liquid). A Matrix Duplicate was analyzed on both WA110820090010 and WA060820090014. The RPDs for both were within the acceptable criteria.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on both WA110820090010 and WA060820090014. The spike recoveries for both were within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA060820090014

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was not within the acceptance criteria (66%). Affected samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA210520090002, WA060820090014 and WA110820090010

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits. There is no internal standard present. All samples have been flagged with an "I" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Other Comments:
Not Applicable

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times

Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were not within the acceptance criteria. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There was RPD failures of the LCS/LCSD pair. There were no RPD failures of the Matrix Duplicate. All samples have been flagged with an "a" and "s" accordingly.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and the recovery was within the acceptance criteria.

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090575

DATA REPORT SUMMARY

Sample Set: **20090575**
Receipt Date: **August 11, 2009**
Collection Date(s): **July 30, 2009**
Parameters: **Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID: **WA110820090010**

CLS received five (5) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on August 11, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA060820090014 (liquid matrix) and WA110820090010 (solid matrix)

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was evidence of compounds present in the middle and closing blank samples greater than the quantitation limit. Affected samples have been flagged with a "B" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was not analyzed.. All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A soil Method blank and a liquid Method blank were analyzed. Both had evidence of compounds present in the blank sample greater than the quantitation limit. All affected samples have been flagged with a "B" accordingly.

Laboratory Control Samples (+/- 30%)

Two Laboratory Control Sample and Laboratory Control Sample Duplicate pairs (solid and liquid) were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There was no RPD failure of the LCS/LCSD (solid) pair or the LCS/LCSD (liquid). A Matrix Duplicate was analyzed on both WA110820090010 and WA060820090014. The RPDs for both were within the acceptable criteria.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on both WA110820090010 and WA060820090014. The spike recoveries for both were within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA110820090010 and WA180820090011

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group with the exception of the middle and ending CCV. The affected samples have been flagged with an "a" accordingly.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on samples WA110820090010-001 and WA180820090011-004. The spike recovery for WA110820090010-001 was acceptable, however; recovery for WA180820090011-004 was not within the acceptance criteria (54%). The affected samples have been flagged with an "s" accordingly.

Other Comments:
There were several surrogate recovery failures for this analytical batch. All the samples for WA110820090010 and their duplicate and spike sample as well as all the samples for WA180820090011 and its duplicate and spike sample had recovery failures. All the samples have all been flagged with an "S" accordingly.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA210520090002, WA060820090014, and WA110820090010

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met.

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. However no surrogate was added. All samples have been flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits. There is no internal standard present. All samples have been flagged with an "I" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for alpha Hexachlorcyclohexane (139.9%), beta Hexachlorocyclohexane (202.7%), delta Hexachlorocyclohexane (281%), and Pentachlorophenol (23.6 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.except for Pentachlorophenol (56 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Workorders contained in Analytical Batch

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090574

DATA REPORT SUMMARY

Sample Set: **20090574**
Receipt Date: **August 12, 2009**
Collection Date(s): **August 3 & 4, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA120820090018**

CLS received three (3) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 12, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090575

DATA REPORT SUMMARY

Sample Set: **20090575**
Receipt Date: **August 13, 2009**
Collection Date(s): **August 5, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA140820090001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 13, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090608

DATA REPORT SUMMARY

Sample Set:	**20090608**
Receipt Date:	**August 18, 2009**
Collection Date(s):	**August 10 & 11, 2009**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA180820090011**

CLS received five (5) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on August 18, 2009.

Diesel Range Organics

Workorders contained in Analytical Batch
WA180820090011

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found not to be within acceptable limits (163.2%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was evidence of compounds present in the blank sample greater than the quantitation limit. All samples have been flagged with a "B" flag accordingly.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA110820090010 and WA180820090011

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group with the exception of the middle and ending CCV. The affected samples have been flagged with an "a" accordingly.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed on samples WA110820090010-001 and WA180820090011-004. The spike recovery for WA110820090010-001 was acceptable, however; recovery for WA180820090011-004 was not within the acceptance criteria (54%). The affected samples have been flagged with an "s" accordingly.

Other Comments:
There were several surrogate recovery failures for this analytical batch. All the samples for WA110820090010 and their duplicate and spike sample as well as all the samples for WA180820090011 and its duplicate and spike sample had recovery failures. All the samples have all been flagged with an "S" accordingly.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)

A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for alpha Hexachlorocyclohexane (139.9%), beta Hexachlorocyclohexane (202.7%), delta Hexachlorocyclohexane (281%), and Pentachlorophenol (23.6 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090608

DATA REPORT SUMMARY

Sample Set: **20090608**
Receipt Date: **August 19, 2009**
Collection Date(s): **August 12 & 13, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA190820090001**

CLS received three (3) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 19, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA120820090018, WA180820090011, WA140820090001, and WA190820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit. There was a surrogate failure due to the fact that there was no surrogate added. All samples were flagged with an "S" accordingly.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (820%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090608

DATA REPORT SUMMARY

Sample Set: **20090608**
Receipt Date: **August 25, 2009**
Collection Date(s): **August 17, 2009**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate.**
RJLG ID: **WA260820090001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on August 25, 2009.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA260820090001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
TThe BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and was not within the acceptable limits (0%). All samples have been flagged with a "Q" accordingly.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090878

DATA REPORT SUMMARY

Sample Set:	**20090878**
Receipt Date:	**January 6, 2010**
Collection Date(s):	**December 29 & 30, 2009**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA060120100001**

CLS received three (3) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on January 6, 2010.

Diesel Range Organics

Workorders contained in Analytical Batch
WA060120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Gasoline Range Organics

Workorders contained in Analytical Batch
WA060120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Calibration
BFB Tune Check
All criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)

There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA060120100001 and WA130120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)

A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Organochlorine Pesticides Analysis

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Degradation Check
All criteria were met

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria except for alpha Hexachlorcyclohexane (139.9%), beta Hexachlorocyclohexane (202.7%), delta Hexachlorocyclohexane (281%), and Pentachlorophenol (23.6 %). All samples have been flagged with an "a" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria except for Hexachlorobenzene (61%), Aldrin (56%), alpha Hexachlorocyclohexane(68%), delta

Hexachlorocyclohexane(68 %),DDE(65%),Heptachlor(67%), Heptachlor Epoxide(62%), and Pentachlorophenol(345 %). All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Chlordane Analysis

Technical Holding Times
Extractions and analysis were not performed within the analytical method specific hold times. All samples were flagged with an "H" accordingly.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate was not analyzed. All samples have been flagged with an "a" and "s" accordingly.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was not analyzed. All samples have been flagged with an "s" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Aroclors Analysis

Technical Holding Times

Extractions and analysis were performed within the analytical method specific hold times.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed within this analytical batch. There was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Polychlorinated Biphenyls-Congeners Analysis

The Polychlorinated Biphenyls-Congeners portion of the analysis was subcontracted to Test America. Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

Other Comments:
Not Applicable

Sample Group 20090877

DATA REPORT SUMMARY

Sample Set:	**20090877**
Receipt Date:	**January 13, 2010**
Collection Date(s):	**January 5 & 7, 2010**
Parameters:	**Diesel Range Organics, Gasoline Range Organics, Ethylene Glycol, Monobutyl Phosphate, Dibutyl Phosphate, Pesticides, Polychlorinated Biphenyls-Aroclors and Polychlorinated Biphenyls-Congeners**
RJLG ID:	**WA130120100001**

CLS received three (3) samples for Diesel Range Organics (EPA 8015 Modified), Gasoline Range Organics (EPA 8015 Modified), Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate (EPA 8015 Modified), Dibutyl Phosphate (EPA 8015 Modified), Pesticides (EPA 8081), Polychlorinated Biphenyls-Aroclors (EPA 8082) and Polychlorinated Biphenyls-Congeners analysis on January 13, 2010.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA060120100001 and WA130120100001

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090878

DATA REPORT SUMMARY

Sample Set: **20090878**
Receipt Date: **January 20, 2010**
Collection Date(s): **January 14 & 15, 2010**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate**
RJLG ID: **WA200110100001**

CLS received two (2) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis on January 20, 2010.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA220620090005 and WA200120100001

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

Sample Group 20090878

DATA REPORT SUMMARY

Sample Set: **20090878**
Receipt Date: **January 25, 2010**
Collection Date(s): **January 19, 2010**
Parameters: **Ethylene Glycol, Monobutyl Phosphate, and Dibutyl Phosphate**
RJLG ID: **WA250120100004**

CLS received one (1) samples for Ethylene Glycol (EPA 8015 Modified), Monobutyl Phosphate and Dibutyl Phosphate analysis January 25, 2010.

Ethylene Glycol Analysis

Workorders contained in Analytical Batch
WA250120100004

Technical Holding Times
Extractions and analysis were performed within the analytical method specific hold times.

BFB Tune Check
The BFB Tune was monitored for two ions in SIM Mode and the ion criteria were met.

Initial Calibration
All criteria for initial calibration were met

Initial Calibration Verification (+/- 20%)
Calibration verification requirements were within acceptable limits for this sample group.

Continuing Calibration Verification (+/- 20%)
Calibration Verification requirements were within acceptable limits for this sample group.

Calibration Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
Calibration blanks were analyzed and there was no evidence of compounds present in the blank samples greater than the quantitation limit.

Detection Level Standard: (+/- 40%)
The Detection Level Standard was analyzed and found to be within acceptable limits.

Method/Laboratory Reagent Blanks: Analyte Levels > Quantitation Limit Present in Blank Sample
A Method blank was analyzed and there was no evidence of compounds present in the blank sample greater than the quantitation limit.

Laboratory Control Samples (+/- 30%)
A Laboratory Control Sample and Laboratory Control Sample Duplicate were analyzed and the recoveries of each were within the acceptance criteria.

Duplicates (Relative percent difference +/-15%)
There were no RPD failures of the LCS/LCSD pair and Matrix Duplicate.

Matrix Spike (+/-30%)
A Matrix Spike was analyzed and recovery was within the acceptance criteria.

Other Comments:
Not Applicable

Dibutyl/Monobutyl Phosphate Analysis

The Dibutyl Phosphate and Monobutyl Phosphate portion of the analysis was subcontracted to Southwest Research Institute (SwRI). Please find attached a copy of the report with the laboratory's comments regarding the analysis.

Technical Holding Times
Extractions and analysis were performed outside the analytical method specific hold times. The samples have been flagged with an "H" accordingly.

Other Comments:
Not Applicable

VVA2\0720090001

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090161

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE		
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
	S09V000227	VA	4/20/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
RTSteele RTSteele	4-21-09 0930	R.T. Sickle	4-21-09 0930
R.T. Sickle	4-21-09 1240	Sterling Shaw	4-21-09 1240

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V09-002-015

COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C6392, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 56	ACTUAL SAMPLE DEPTH: 14'-15'	COA: 301483ES10
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.

PRICE CODE: 8P

AIR QUALITY: ☐

DATA TURNAROUND: 75 Days / 75 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~1~~ 2 4-14-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		Lab Sample ID
B1YT71	SOIL	4-14-09	1300	✓	S09V000148 liner A
					S09V000149 liner B

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-14-09 1515	Tim Gollock	4-14-09 1515

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

only two liners were filled due to material

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA07052009 0005

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090161
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YT80	S09V000230	VA	5/6/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
B1YT83	S09V000231	VA	5/6/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Steele	R Steele		5-7-09 0950	R Ellingsworth	R Ellingsworth		5-7-09 0950
Relinquished By			Date/Time	Received By			Date/Time
RD Ellingsworth CHPRC			MAY 07 2009 1437	Sterling Shaw			0237 MAY 07 2009
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-024	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6392, I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg61	42-44'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
20090160

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT80	SOIL	4-30-09	1015 ~~1015~~ 4/R 4-30-09	✓
S09U000160				
S09V000161				
S09V000162				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Lerry Rosane, Larry Rosane	4-30-09/ 1510	Tw Collock Tw Collock	4/30/09 1510
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-024	PAGE 2 OF 2
COLLECTOR Rosalie, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 61	ACTUAL SAMPLE DEPTH 42'-44'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-027	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6392, I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-5 pg 61	56-58'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
20090160

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT83 164	SOIL	4-30-09	1415	✓
S09V000175				
S09V000165				
S09V000166				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne, Larry Rosanne	4-30-09/1510	Tuf-Tech Tuf-Tech	4/30/09 1510
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-027	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 p161	ACTUAL SAMPLE DEPTH 56'-58'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA2704200900 1

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090161
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
	S09V000228	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
	S09V000229	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	R.F. Steele	[signature]	4-27-09 10:00		R. Ellingsworth	[signature]	4-27-09 10:00
Relinquished By			Date/Time	Received By			Date/Time
R Ellingsworth		[signature]	4-27-09 1246		[signature]	Joe Sosa	04/27/09 1246
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA21052009 0002

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090329
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES GRP-07-003 Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTB1	S09V000457	VA	5/21/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Tim Eslock	Tim Eslock	Tim Eslock	5-21-09 1053	SCOTT HAMAKER	Scott Hamaker	Scott Hamaker	5/21/09 1053
SCOTT HAMAKER	Scott Hamaker	Scott Hamaker	5/21/09 1257	Joe Seven	Joe Seven	Joe Seven	05/21/09 1257

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-045	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne, Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-526-3 pg 65	19.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE
54°

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~2~~ 2 1/2 SAF 5-13-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTB1	SOIL	5-13-09	0930
S09V000 398			
S09V000 399	S09V000 401		
S09V000 400			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Tony Rosanne	5-13-09/ 1030	RtSteele RtSteele	5.13.09 1030
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

2 1/2 liner filled (lack of soil)

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-045	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6404, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 65	ACTUAL SAMPLE DEPTH 19.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

6JA020620090001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090329
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTB4	S09V000458	VA	5/20/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
B1YTB7	S09V000459	VA	5/20/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL
B1YTC0	S09V000460	VA	5/20/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Verified by TJW 04/02/09

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R F Steele / R F Steele	6.2.09 1030	R Ellingsworth / R Ellingsworth	6-2-09 1030
R Ellingsworth / R Ellingsworth	6-2-09 1332	Joe Sears / Joe Sears	1332 6-2-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-048	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Karen White	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-005	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 Pg 66	31' to 33'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTB4	SOIL	5-18-09	0920
S09V000413 (a)			
S09V000414 (b)			
S09V000415 (c)			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kinch	5-18-09 1455	TM McGlloch	5-18-09 1455
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-051	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kausk, White	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P66	42' to 44'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTB7	SOIL	5-18-09	1140
S09V000430	(a)		
S09V000431	(b)		
S09V000432	(c)		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kausk	5-18-09 1455	TM Gilbert	5-18-09 1455
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-054	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 67	57'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090325

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTC0	SOIL	5-19-09	0945	✓
S09V000445				
S09V000446				
S09V000447				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	5-19-09 / 1330	TM Colloch	5-19-09 1330
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA0206200 70002

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090378
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 45 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTH1	S09V000635	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP, PCB, HC1D, GRO, DRO, PESTICIDES	COOL
B1YTH3	S09V000651	VA	4/24/09	n/a	500mL Amber	ETHYLENE GLYCOL, MBP/DBP, PCB, HC1D, GRO, DRO, PESTICIDES	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

verified by TJW & JS on 06/02/09

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R. Steele	6.2.09 10 30	R Ellingsworth	6-2-09 10 30
R Ellingsworth	6-2-09 1332	Joe Seors	6-2-09 1332

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-094	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6400; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 68	5-7'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

Q0090677

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTH1	SOIL	5-21-09	09:25	✓
S09V000623				
S09V000624				
S09V000625				

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	5-21-09/1322	Tut Tut Tut Tut	5-21-09 1322
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-097	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6400; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 68	10'-12'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

Q0090377

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTH3	SOIL	5-21-09	1021
S09V000639			
S09V000640			
S09V000641			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	5-21-09/1322	T.W. Flood T.W. Flood	5-21-09 1322
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1106200900001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090378
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: NO	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: ~~24 HOURS~~ 60 days MA 06/11/09 phone conv. to S. McKinney from J. Sears	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTH6	S09V000667	VA	6/9/09	n/a	500mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leslie Diaz Leslie Diaz	6/9/09 1045	KB Hulse KB Hulse	6/9/09 1045
KB Hulse KB Hulse	6-9-09	Joe Sears Joe Sears	06/09/09 1456

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-100	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kawa, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6400; I-003	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 PS6	132.5 to 134.5	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
20090377

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

Sample Received via a cooler on ice. JS 06/05/09 1452

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTH6	SOIL	6-1-09	1135	✓
S09N000 655 A				
656 B				Pag 2
657 C				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kawa	6-1-09 1400	RJSteele	6.1.09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-100	PAGE 2 OF 2
COLLECTOR Karen Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6400; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 P56	ACTUAL SAMPLE DEPTH 132' To 134.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

WA1106200900002

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090365
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: NO	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: ~~24 HOURS~~ 60 days 06/11/09 Phone Conv to S. McKinney	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTD8	S09V000570	VA	6/10/09	n/a	~~500~~ 125 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B1YTF1	S09V000586	VA	6/10/09	n/a	~~500~~ 125 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
					Ann 6/11/09		

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R. Kilgore / R. Kilgore	6-11-09 0900	J. Herrick / J. Herrick	6.11.09 0900
J. Herrick / J. Herrick	6/11/09 0920	Joe Sears / Joe Sears	6/11/09 0920

Matrix*

S = Soil	DL = Drum Liquids		
SE = Sediment	T = Tissue		
SO = Solid	WI = Wipe		
SL = Sludge	L = Liquid		
W = Water	V = Vegetation		
O = Oil	VA = Vapor		
A = Air	X = Other		
DS = Drum Solids			

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-072	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Kanes	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6406, I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 71	18-20'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2CC9C364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C											
TYPE OF CONTAINER	Liner											
NO. OF CONTAINER(S)	3											
VOLUME	160g											
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YTD8	SOIL	6-4-09	1030	✓									
509U000558	(a)												
559	(b)												
560	(c)												

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Jimmy Rosanne 6-4-09	1445	RL Stecle RLSteele	6.4.09 1445
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-072	PAGE 2 OF 2
COLLECTOR Rosanne Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH 18-20'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

WMI1106200900002

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-075	PAGE 1 OF 2
COLLECTOR: Rosane, Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH: 26 - 28'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: ~~HNF-N-576-3 pg 71~~		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF1	SOIL	6-4-09	1328	✓
S09V000374	(a)			
375	(b)			
376	(c)			

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Larry Rosane, Larry Rosane 6-4-09	1445	RECEIVED BY/STORED IN: RKSteele, RKSteele 6-4-09	1445
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1100290002

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-075	PAGE 2 OF 2
COLLECTOR Rosalie Kerner	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-526-3 pg 71	ACTUAL SAMPLE DEPTH 26-28	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1106200900 03

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090365
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTD2	S09V000510	VA	6/10/09	n/a	~~500~~ 125 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B1YTD5	S09V000554	VA	6/10/09	n/a	~~500~~ 125 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B1YTD5					km 6/11/09		
MA 01/19/10							

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RJ Stoelle	RJ Stoelle		6-11-09 0900	J. Harrick	J. Harrick		6-11-09 0900
J. Harrick	J. Harrick		6/11/09 0920	Joe Sears	Joe Sears		6/11/09 0920

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA1106200910003

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-066	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, White	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6406, I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P570	10'-12'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	2 6-3-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTD2	SOIL	6-3-09	1425 ✓
S09V000497	(A)		
S09V000498	(B)		

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, Edward Kauer	6-3-09 1530	Tuttelbod Tuttelbod	6-3-09 1530

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Liner One Full
Liner Two 1/2

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1106200910003

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-066	PAGE 2 OF 2
COLLECTOR Kauer, White	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS70 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1106200900 03

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-069	PAGE 1 OF 2
COLLECTOR: Rosanne Kaner	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS71	ACTUAL SAMPLE DEPTH: 14-16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTD5	SOIL	6-4-09	0934	✓
S09V000542	(a)			
543	(b)			
544	(c)			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Lanny Rosanne Lanny Rosanne 6-4-09	1445	RRSteele	6-4-09 1445
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA11062009 0003

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-069	PAGE 2 OF 2
COLLECTOR Rosanne Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA15062009 0004

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090365

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE	Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Project Title: C FARM VADOSE	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Shipped To (Lab): CLS	Protocol: N/A	Logbook/ Work Package No.: N/A	Ice Chest No.: NO; Temp.: 2-6 DEGREES
		Method of Shipment: GROUND	Bill of Lading/Air Bill No.
		Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YTF4	S09V000602	VA	6/15/09	n/a	125mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B1YTF7	S09V000618		6/15/09	n/a	125mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Steele	R Steele		6.15.09 1015	RD Julian CHPRC			6.15.09 1015
R.D. Julian			1350 6-15-09	Joe Sears			1350 6-15-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-078	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6406, I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg	54.5-56.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

S0090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF4	SOIL	6-9-09	0920	✓
S09V000 590				
↓ 591				
✓ 593				

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Larry Rosane Larry Rosane	6-9-09 / 1430	RECEIVED BY/STORED IN: RBSteele	6-9-09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-078	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3,pg	ACTUAL SAMPLE DEPTH 54.5' - 56.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-081	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust Kauer	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6406, I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 72	59' - 61'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTF7	SOIL	6-9-09	1055
SO9V000 606			
607			
608			

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Ed Kauer / [illegible]	6-9-09 1430	RECEIVED BY/STORED IN: [illegible]	6-9-09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-081	PAGE 2 OF 2
COLLECTOR Rosane Rust Kunz	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 72	ACTUAL SAMPLE DEPTH 59-61'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA22062009 0005

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090454
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B20XV5	S09V000761	VA	6/22/09	n/a	125mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XV9	S09V000762	VA	6/22/09	n/a	125mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW3	S09V000763	VA	6/22/09	n/a	125mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RFSteele	RFSteele		6.22.09 1035	R. Ellingsworth	RE		6.22.09 1035
R Ellingsworth	RE		6-22-09 1357	Joe Seors	Joe Seors		6-22-09 1357
			Date/Time				Date/Time
			Date/Time				Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-102	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane, Rust, Kower	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6402; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 73	6-8'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XV5

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	2
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XV5	SOIL	6-15-09	0935
S09V000725	Liner "B"		
726	Liner "A"		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	6-15-09 / 1352	RHHood RASteele	6.15.09 1352
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
1 3/4 Liners full

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-102	PAGE 2 OF 2
COLLECTOR Rosane, Rust, Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6402; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-5, pg 73	ACTUAL SAMPLE DEPTH 6'-8'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-106	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust Kamm	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6402; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 73		301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

46°

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XV8

20090542

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	82 6-15-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B20XV9	SOIL	6-15-09	1017	✓
509000738	Liner A			
739	Liner B			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Losanne Larry Losanne	6-15-09 1352	RAStelle RAStelle	6.15.09 1352
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

2 full Liners

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-106	PAGE 2 OF 2
COLLECTOR Rosane, Rust Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6402; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
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** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-110	PAGE 1 OF 2
COLLECTOR Rosawe, Rust, Kamer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6402; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH 14'-16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

20090542

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XW2

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1/2 6-15-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW3	SOIL	6-15-09	1053
S09V100751	Liner A		
752	Liner B		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosawe Larry Rosawe	6-15-09 1352	R.L. Steele R.L. Steele	6-15-09 1352
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

1-1/2 liner full

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-110	PAGE 2 OF 2
COLLECTOR Rosanne Rust Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6402; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3973	ACTUAL SAMPLE DEPTH 14'-16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

WA0608200900 14

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090 575
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B1YY17	S09V000937		8/5/09	n/a	3 ~~1 L PLASTIC~~ GLASS 8-6-09	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B1YY17	S09V000938		8/5/09	n/a	2 ~~1 L PLASTIC~~ GLASS 8-6-09	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R.L. Humbers / R.L. Humbers	1000 8-6-09	F.D. Julian / F.D. Julian	1000 1000 8-6-09
R.D. Julian / R.D. Julian	1135 8-6-09	Joe Sears / Joe Sears	1135 8-6-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-003-014	PAGE 1 OF 3

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
KAUER	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
WMA-C Tank Farm -EB	WMA C Sampling for CMS - QC Sampling		V09-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P975	N/A	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C	Cool~4C	HNO3 to pH <2	HNO3 to pH <2	Cool~4C	Cool~4C	Cool~4C	ZnAc+NaOH to pH > 9/Cool~6C	NaOH to pH >= 12/Cool~4C	None
TYPE OF CONTAINER	aGs*	aG	G/P	G	aG	aG	G/P	G/P	G/P	P
NO. OF CONTAINER(S)	3	4	1	1	3	2	1	1	1	1
VOLUME	40mL	1000mL	500mL	500mL	1000mL	1000mL	250mL	500mL	60mL	125mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	Mercury - 7470 - (CV) (TF) (Mercury)	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS	SEE ITEM (6) IN SPECIAL INSTRUCTIONS	Sulfide - 9215 (Sulfide)	Total Cyanide - 9014 (TF) (Cyanide)	pH (Water) - 9040 (TF) (pH Measurement)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YY17	WATER	8-3-09	1037	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / Ed Kauer	8-3-09 1400	R Rittof / R Rittof	8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-014	PAGE 2 OF 3
COLLECTOR KAUR	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7P	DATA TURNAROUND
SAMPLING LOCATION WMA-C Tank Farm -EB	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 75 HNF-N-576-3	ACTUAL SAMPLE DEPTH N/A	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine}
(3)ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc}
(4)PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260}
(5)Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Hexachlorobenzene}
(6)IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-014	PAGE 3 OF 3
COLLECTOR KAUER	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7P	DATA TURNAROUND
SAMPLING LOCATION WMA-C Tank Farm -EB	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. 1575 HNF-N-576-3	ACTUAL SAMPLE DEPTH N/A	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2					
TYPE OF CONTAINER	G/P	G/P	G/P	G/P	G/P					
NO. OF CONTAINER(S)	4	1	1	1	2					
VOLUME	1000mL	1000mL	1000mL	1000mL	1000mL					
SAMPLE ANALYSIS	I129_SEP_GEA (TF) (Iodine-129)	SEE ITEM (7) IN SPECIAL INSTRUCTIONS	Nickel-63 (TF) (Nickel-63)	Selenium-79 (TF) (Selenium-79)	Strontium-89,90 – Sr-90 (Strontium-90)					

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YY17	WATER	8-3-09	1037	✓	✓	✓	✓	✓					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Ed Kauer	DATE/TIME 8-3-09 1400	RECEIVED BY/STORED IN Robert Rietkerk	DATE/TIME 8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(7)Isotopic Plutonium {Plutonium-238, Plutonium-239/240}

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA11082009 0010

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090575
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B215K8	S09V000865		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B215K9	S09V000878		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW6	S09V000906		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW9	S09V000907		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B20XX2	S09V000908		8/5/09	n/a	500mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

verified 08/11/09 TJL

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Steele	R Steele		8-11-09 0930	R.D. Julian	R.D. Julian		0930 8-11-09
R.D. Julian	R.D. Julian		8-11-09 1300	Joe Sears	Joe Sears		1300 08/11/09
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-174	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rost, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; Surface	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 Pg 74	0-1	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A PCB 7/29/09		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
222S20090574

PRESERVATION	~~Cool~~ ~~4C~~ ~~Cool~~ 6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B215K8	SOIL	7-30-09	08:25	✓
S09V00083B				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [signature] 7-30-09	1315	R H Steele [signature] 7.30.09	1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-174	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. 5574 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-175	PAGE 1 OF 2
COLLECTOR KANZE, Rust, Rosame	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS 74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0 – 1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A PGB 7/29/09		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	~~Cool~4C/Cool~~ 6C
		TYPE OF CONTAINER	G/P
		NO. OF CONTAINER(S)	2
		VOLUME	500mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B215K9	SOIL	7-30-09	0830	✓
509V000869				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Ed Kanzer	DATE/TIME 7-30-09 1315	RECEIVED BY/STORED IN R Steele	DATE/TIME 7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-175	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-113	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 A24	5-7'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

57"

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW6	SOIL	07-30-09	1000 ✓
S09V000882	A		
S09V000883	B		
S09V000884	C		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Elkins, Robert 7-30-09	1315	RA Steele RA Steele	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-113	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 5-7	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-116	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7466; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 Pg 74	10' to 12'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

75

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW9	SOIL	7-30-09	1038 ✓
S09V000891	(A)		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [signature]	7-30-09 1315	[signature]	7-30-09 1315

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Only 1 Liner Sent

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-116 PAGE 2 OF 2
COLLECTOR KAUER, Rust, RoSane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P DATA TURNAROUND
SAMPLING LOCATION C7466; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐ 75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS 74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A	

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-119	PAGE 1 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 PS74	ACTUAL SAMPLE DEPTH 14' to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

6 8 ℞

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
320XX2	SOIL	7-30-09	1205	✓
S09V000900	A			
S09V000901	B			
S09V000902	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer	7-30-09 1315	RHRust RJSteele/G	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-119	PAGE 2 OF 2
COLLECTOR KAUER, RUST, ROSANNE	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 14' to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1208200900 18

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20090574

Page 1 of 1

Assembler: GARY COOKE/JANN FRYE		
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B20XX5	S09V001000	VA	8/12/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B211W5	S09V000996	VA	8/12/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B20XW6	S09V000997	VA	8/12/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RtSteele	RtSteele		8.12.09 1100	R.D Julian			8.12.09 1100
R.D. Julian			8-12-09 1255		Joe Sears		08/12/09 1255

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-122	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauk, Rust, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	**75 Days / 75 Days**
C7466; I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.** PG 75	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3	43.5- 45.5	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

22S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XX5	SOIL	8-3-09	0850 ✓
S09V000954	A		
S09V000955	B		
S09V000956	C		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauk / [signature]	8-3-09 1400	[signature] R B Steele	8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-122	PAGE 2 OF 2
COLLECTOR Knusk, Rust, Rosame	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS75 HNF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 45.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-125	PAGE 1 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 76	ACTUAL SAMPLE DEPTH 84'-86'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 ZC090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211W3	SOIL	8-4-09	0845	✓
S09V000 963	A			
964	B			
965	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne 8-4-09	1800	RHSteele RHSteele	8.4.09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-125	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 76	ACTUAL SAMPLE DEPTH 84' - 86'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids. (1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-128	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
KAUER, RUST, ROSANE	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7466; I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 (5576)	109.5 to 111.5	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

222S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
211W6	SOIL	8-4-09	14:10	✓
309U000978	A			
981989	B			
984	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [illegible]	8-4-09 1500	[illegible]	8-4-09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-128	PAGE 2 OF 2
COLLECTOR Kause, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P576 HNF-N-576-3	ACTUAL SAMPLE DEPTH 109.5 to 111.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA1408 2009 0001

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090575
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.: N/A
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B211W9	S09V000998	VA	8/13/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B211X2	S09V000999	VA	8/13/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
RASteele RASteele	8.13.09 0940	KB Hulse KB Hulse	8.13.09 09.40
KB Hulse KB Hulse	8-13-09 1223	Joe Sears Joe Sears	08/13/09 1223

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-134	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; I-008	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 p77	133'-135'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

222S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211X2	SOIL	8-5-09	1352	✓
509V000980	A			
509V000983	B			
509J000986	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Lenny Rosane Lenny Rosane	8-5-09/ 1500	Richard R Steele	8.5.09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-134	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-W-576-3 pg 77	ACTUAL SAMPLE DEPTH 133'-135'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-131	PAGE 1 OF 2
COLLECTOR Rosane Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg77	ACTUAL SAMPLE DEPTH 114'-116'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2222C090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211W9	SOIL	8-5-09	0945	✓
S09V000 979				
982				
985				

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	8-5-09 1500	R H Steele R H Steele	8-5-09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-131	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 77	ACTUAL SAMPLE DEPTH 114'-116'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA18082009011

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090608
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B211Y3	S09V001189		8/18/09	n/a	50 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B211Y6	S09V001190		8/18/09	n/a	50 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B211Y9	S09V001191		8/18/09	n/a	50 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B215L0	S09V001072		8/18/09	n/a	500 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL
B215L1	S09V001073		8/18/09	n/a	500 mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RJ Steele	RJ Steele		8.18.09 1040	R.D. Julian	R.D. Julian		8.18.09 1040
R.D. Julian	R.D. Julian		8-18-09 1310	Joe Sears	Joe Sears		08/18/09 1310
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-176	PAGE 1 OF 2
COLLECTOR Kause, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. PS78 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A PCB 7/29/09		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

31°

SPECIAL HANDLING AND/OR STORAGE
22252090607

PRESERVATION	~~Cool~~ 4C/Cool~ 6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B215L0	SOIL	8-10-09	1045
B09V001051			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Rowe, Ed Rowe	8-10-09 1330	R L Steele R L Steele	8-10-09 1330
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-176	PAGE 2 OF 2
COLLECTOR Kauer, Rost	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. 5578 HNF W-57L-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-177	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rost	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; Surface-D	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 PS 78	0-1'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

PCB 7/29/09

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

310

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	~~Cool~~ ~~4C~~/Cool~ 6C												
TYPE OF CONTAINER	G/P												
NO. OF CONTAINER(S)	2												
VOLUME	500mL												
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS												

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B215L1	SOIL	8-10-09	1045
509100 1052			

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
E Kauer	8-10-09 1330	R Siegle	8-10-09 1330
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-177	PAGE 2 OF 2
COLLECTOR Kasch, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P578 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
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ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-143	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauck, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 Pg 75	5' to 7'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

48

SPECIAL HANDLING AND/OR STORAGE
22252090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B211Y3 1083	SOIL	08-11-09	0840 ✓
509V00 ~~1083~~	A BAR 8/13/09		
1084	B		
1085	C		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
EE Kauck/[illegible]	8-11-09 1240	RAHSteele	8.11.09 1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-143	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. P575 HNFN-576-3	ACTUAL SAMPLE DEPTH 5' to 7'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-146	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.** PS79 HNF-N-576-3	**ACTUAL SAMPLE DEPTH** 10 to 12'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~3~~ 2 8-11-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211Y6	SOIL	8-11-09	0910	✓
SO9T00 1086				
↓ 1087				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/ 8-11-09	1240	R Hatel R Skeele 8-11-09	1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Only 2 Liners Full
1 Liner Empty

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-146	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS79 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10' to 12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-149	PAGE 1 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. 8979 HNF-N-576-3	ACTUAL SAMPLE DEPTH 14' to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

48°

SPECIAL HANDLING AND/OR STORAGE
222S2C090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B211Y9	SOIL	08-11-09	0945
S09U00 1089			
1090			
1091			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/[illegible] 8-11-09	1240	[illegible] R Steele 8-11-09	1240

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-149	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3	ACTUAL SAMPLE DEPTH P575 14 to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine) ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA19082009 0001

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: GARY COOKE/JANN FRYE		C.O.C. No. 20090608
		Page 1 of 1
Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B21202	S09V001179		8/18/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B21205	S09V001180		8/18/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B21208	S09V001181		8/18/09	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
RtSteele	8.19.09 0900	R.D. Julian	8.19.09 0:9:00
R.D. Sulzen	1015 8-19-09	Joe Sears	1015 8-19-09

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-152	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rost	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.** Pg 80	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3	43.5 to 45.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

28°

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

222S20040607

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21202	SOIL	8-12-09	0840	✓
S09V001131				
1135				
1139				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Eli Kauer / [signature]	8-12-09 1100	[signature] R. Steele	8-12-09 1100

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-152	PAGE 2 OF 2
COLLECTOR KAUSE, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P580 HNF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 45.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-155	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
KAUER, RUST	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-005	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 PG 81	92' to 94'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
22252C090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21205	SOIL	8-13-09	0845	✓
S09V00 1132				
1136				
1140				

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Eckauer/Eckauer	8-13-09 1400	RECEIVED BY/STORED IN: RHSteele RHSteele	8-13-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-157	PAGE 2 OF 2
COLLECTOR Kaush Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. 451 HNF-N-576-3	ACTUAL SAMPLE DEPTH 92' to 94'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-158	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
KAUER, RUST	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 PG81	97' to 99'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

33°

SPECIAL HANDLING AND/OR STORAGE
222S Z0090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21208	SOIL	8-13-09	1120
509U00 1133			
1137			
1141			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer	8-13-09 1400	R L Steele	8.13.09 1400

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-158	PAGE 2 OF 2
COLLECTOR KAUER, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. P581 HNF-N-576-3	ACTUAL SAMPLE DEPTH 97' to 99'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA2608200900 01

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090608
Gary Cooke/Jann Frye		Page 1 of 1

Collector: Steve McKinney	Contact/Requestor: Steve McKinney	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C Farm Vadose	Purchase Order/Charge Code	
Project Title: C Farm Vadose	Logbook/ Work Package No.: N/A	Ice Chest No.: Yes	Temp.: 2-6 degrees
Shipped To (Lab): CLS	Method of Shipment: Ground	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 days	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B21211	S09V001182		8/25/09	n/a	50 mL amber	Ethylene Glycol, MBP/DBP	COOL
B21214	S09V001227		8/25/09	n/a	50 mL amber	Ethylene Glycol, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference COntract # 21065
Release 39

Hold Time: 14 days

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Todd McCollock	8/25/09 @ 0933	R.D. Julian	8-25-09 0933
R.D. Julian	8-25-09 1340	William P. Moore	8-25-09 1340

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-161	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 82	125' - 127'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

H3°

SPECIAL HANDLING AND/OR STORAGE

222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21211	SOIL	8-17-09	1000	✓
509U001134	A			
1138	B			
1142				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/Ed Kauer	8-17-09 1430	RKSteele RKSteele	8.17.09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-161	PAGE 2 OF 2
COLLECTOR Karen Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 82	ACTUAL SAMPLE DEPTH 125'-127'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-164	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7468; I-008	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 P502	135 to 137	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21214	SOIL	8-17-09	1355	✓
S09V001215				
1216				
1217				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/ 8-17-09	1430	RHRiedle 8-17-09	1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-164	PAGE 2 OF 2
COLLECTOR KAUER, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. P582 HNF-N-576-3	ACTUAL SAMPLE DEPTH 135 to 137	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

WA06012010 0001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B236P2	S09V001642	VA	1/20/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	~~N/A~~ COO
B23KT4	S09V001657	VA	1/20/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	~~N/A~~ COO
B238H1	S09V001687	VA	1/20/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	~~N/A~~ COO

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R Steele	R Steele		1-6-10 08 40	R Ellingsworth	R Ellingsworth		1-6-10 08 40
R Ellingsworth	R Ellingsworth		1-6-10 09 37	Larry D. Lockard	D Lockard		1-6-10 09 37
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA06012010001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
GARY COOKE/JANN FRYE		Page 1 of 1

Collector STEVE MCKINNEY	Contact/Requestor STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 FAX 372-1878
SAF No. V09-002	Sample Origin C FARM VADOSE	Purchase Order/Charge Code	
Project Title C FARM VADOSE	Logbook/ Work Package No. N/A	Ice Chest No. YES	Temp. 2-6 DEGREES
Shipped To (Lab) CLS	Method of Shipment GROUND	Bill of Lading/Air Bill No.	
Protocol N/A	Data Turnaround 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B236P2	S09V001642	VA	12/29/09 ~~1/20/09~~	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B23KT4	S09V001657	VA	12/29/09 ~~1/20/09~~	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A
B238H1	S09V001687	VA	~~1/20/09~~ 12/30/09	n/a	250mL Amber	PCB, HCID, GRO, DRO, PESTICIDES, ETHYLENE GYLCOL, MBP/DBP	N/A

COPY

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | V10-003-032 | PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7472 1004	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-~~000001~~ 003 BC 12-30-09	TFV2-09-000001	14 – 16	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238H1	SOIL	12-30-09	10:25	X
509V001682 liner (a)				
1683 liner (b)				
1684 liner (c)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BC Campbell BC-pbell	12-30-09 1200	R Stecle R Steele	12.30.09 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium 89,90 -- Sr-90;

6°C

22252009087 7

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-023

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell/Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY	☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**			
C7472 I001	WMA C Sampling for CMS		V10-003			

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFV-009-003	TFVZ-09-000001	5-7	N/A	Govt. Vehicle

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 20090877

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	2 BC 12-29-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B236P2	SOIL	12-29-09	09:29	X
S09V001637				
S09V001638				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12.29.09 1320	R Steele R Steele	12.29.09 1320

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

Liner 2 ~~5090~~ BC 12-29-09
50% Full
3.3 c

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-026

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I002	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFV-009-003	TFVZ-09-000001	10-12	N/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations						

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 20090877

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1 BC 12-29-09 BC
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B236P5	SOIL	12-29-09	1140	X
S09V001652				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12-29-09 1320	R Steele R Steele	12-29-09 1320

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium (Plutonium-239/240, Plutonium-238) Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

3.3°C

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A 6003 618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-029

COLLECTOR: Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7472 I003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.: TFV5-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 12 – 14	COA: n/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegetation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C	cool~6C
TYPE OF CONTAINER	Liner	AG
NO. OF CONTAINER(S)	3	1
VOLUME	160g	500ml
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	See item 1 in special instructions

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B236P8	SOIL	12-30-09	09:43	X	X
S09V001654	liner A				
1664	liner B				
1665	liner C				
1666	Shoe				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B C Campbell	12-30-09 12:00	[illegible]	12.30.09 1200

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

6°C

22252009087 7

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA1301201000001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090877
GARY COOKE/JANN FRYE		Page 1 of 1

Collector STEVE MCKINNEY	Contact/Requestor STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 FAX 372-1878
SAF No. V09-002	Sample Origin C FARM VADOSE	Purchase Order/Charge Code	
Project Title C FARM VADOSE	Logbook/ Work Package No. N/A	Ice Chest No. YES	Temp. 2-6 DEGREES
Shipped To (Lab) CLS	Method of Shipment GROUND	Bill of Lading/Air Bill No.	
Protocol N/A	Data Turnaround 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238H4	S09V001702		1/13/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B238H7	S09V001717		1/13/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B23830	S09V001732		1/13/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F.J. Stacle	R.L. Tab		1.13.10 0930	S.J. Southerland CHPRC			1.13.10 0930
S.J. Southerland CHPRC			JAN 13 2010 1025	L.D. Lockard			JAN 13 2010 1025
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WA13012010 0001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090877
GARY COOKE/JANN FRYE		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945	MSIN T6-2 / FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code	
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES	Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238H4	S09V001702		~~1/13/10~~ 1/5/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B238H7	S09V001717		~~1/13/10~~ 1/5/10	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
~~B238J0~~	S09V001732		~~1/13/10~~	n/a	50 mL	ETHYLENE GYLCOL, MBP/DBP	COOL
B238J0			1/7/10				

COPY

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | V10-003-035 | PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	**75 Days / 75 Days**
C7472 I005	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFV2-09-003	TFV2-09-000001	108.5 - 110.5	n/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	n/A		n/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238H4	SOIL	1-5-10	9:42
S09V001697 Liner A			
S09V001698 Liner B			
S09V001699 Liner C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell		R Steele R Steele	1-5-10 1415
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

1 oc

222S20090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-038

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	**75 Days / 75 Days**
C7472 I006	WMA C Sampling for CMS		V10-003			
ICE CHEST NO. 1-5-10	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFVZ-009-003	TFVZ-09-000001	129-131	n/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	n/A		n/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238H7	SOIL	1-5-10	1310
S09V001712	Liner A		
S09V001713	Liner B		
S09V001714	Liner C		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B C_pbell	1-5-10 1415	RtRtek RtSteE/G	1-5-10 1415
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium (Plutonium-239/240, Plutonium-238) Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

1°C

222S 20090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | V10-003-041 | PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I007	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFV2-09-003	TFV2-09-000001	142 – 144	N/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	N/A		N/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238J0	SOIL	1-7-10	1010
S09V001727	Liner A		
S09V001728	Liner B		
S09V001729	Liner C		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell 1-7-10	1130	R Steele R STEELE 1-7-10	1130

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-10C
Temp Blank
RS

222S20090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-619(01/06)

WA 2001 20100001

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
Gary Cooke/Jann Frye		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238J3	S09V001747		1/14/10	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
B238J6	S09V001762		1/15/10	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
						NOTE: THE DATE LISTED IN 4TH COLUMN "DATE" IS WHEN THE 14 DAY SAMPLE	
						HOLD TIME BEGINS. iT IS THE SAMPLING DATE OF THE PARENT SAMPLE	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
T.L. Gloch	1/20/10 @ 0935	L.D. Wall CHPRC	1/20/10 0935
L.D. Wall CHPRC	1/20/10 1020	L D Lockard	1/20/10 1020

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-047

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Harris / Campbell	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	75 Days / 75 Days
C7472 I009	WMA C Sampling for CMS		V10-003			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
TFVZ-09-003	TFVZ-09-000001	195' - 197'	n/A	Govt. Vehicle		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations	n/A		n/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238J6	SOIL	1-15-10	10:30
S09V001757	Liner A		
1758	LINER B		
1759	LINER C		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	1-15-10 11:30	RA Steele	1.15.10 1130

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-1°C
Temp blank

222S20090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-044

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8P	DATA TURNAROUND
Harris / Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY	☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7472 I008	WMA C Sampling for CMS	V10-003

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFV2-09-003	TFV2-09-000007	158'-160'	N/A	Govt. Vehicle

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations	N/A	N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238J3	SOIL	1-14-10	10:00

S09V001742 Liner A
S09V001743 Liner B
S09V001744 Liner C

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-14-10 / 11:00	R Steele R/Steele	1-14-10 1100

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-10°C
Altech
TEMP BLANK

222520090877

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

WA2501201000 04

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20090878
Gary Cooke/Jann Frye		Page 1 of 1

Collector: STEVE MCKINNEY	Contact/Requestor: STEVE MCKINNEY	Telephone No. 372-1945 MSIN T6-2 FAX 372-1878
SAF No.: V09-002	Sample Origin: C FARM VADOSE	Purchase Order/Charge Code
Project Title: C FARM VADOSE	Logbook/ Work Package No.: N/A	Ice Chest No.: YES Temp.: 2-6 DEGREES
Shipped To (Lab): CLS	Method of Shipment: GROUND	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: 60 DAYS	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B238K3	S10V000084		1/19/10	n/a	50 mL Amber	ETHYLENE GYLCOL, MBP/DBP	COOL
						NOTE: THE DATE LISTED IN 4TH COLUMN "DATE" IS WHEN THE 14 DAY SAMPLE	
						HOLD TIME BEGINS. iT IS THE SAMPLING DATE OF THE PARENT SAMPLE	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

Send Results to Keith Fuller @ Richard_K_Keith_Fuller@rl.gov and Melissa Garrard see SOW for email

Reference Contract # 21065
RELEASE 39

Hold Time: 14 DAYS

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R Steele	1-25-10 1030	K Fatheson	1-25-10 1030
K Fatheson	1-25-10 1159	Joe Sears	1-25-10 1159
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-050	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7472 I010	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	216'-218	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238K3	SOIL	1-19-10	1010	—
S10000077	liner (a)			
78	liner (b)			
79	liner (c)			

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-19-10 11:30	RRLeale RRLeale	1-19-10 1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

13°C
Temp Blank
DK

22252090377

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Appendix 5

Data Validation Supporting Documentation

PESTICIDE/PCB DATA VALIDATION CHECKLIST

VALIDATION LEVEL:	A	B	C	D	E
PROJECT: WMA C			DATA PACKAGE: VSR10-024		
VALIDATOR: Carl Schloesslin		LAB: CLS		DATE: 9-13-2010	
			SDG: 2009-0161, -0378, -0365, -0454, -0575, -0608, -0878		
ANALYSES PERFORMED					
SW-846 8081	SW-846 8081 (TCLP)	SW-846 8082 X	SW-846 8081 (TCLP)	SW-846 8151	

SAMPLES/MATRIX Soil samples *See below for water samples

20090161: WA210420090001-001
20090378: WA020620090002-001, WA020620090002-002
20090365: WA110620090003-001, WA110620090003-002
20090454: WA220620090005-001, WA220620090005-002, WA220620090005-003
20090575: WA110820090010-001, WA110820090010-002, WA110820090010-003, WA110820090010-004, WA110820090010-005
20090608: WA180820090011-001, WA180820090011-002, WA180820090011-003, WA180820090011-004, WA180820090011-005
20090878: WA060120100001-001, WA060120100001-002, WA060120100001-003

1. DATA PACKAGE COMPLETENESS AND CASE NARRATIVE

Technical verification documentation present? ..... Yes (No) N/A

Comments: None

2. INSTRUMENT PERFORMANCE AND CALIBRATIONS (Levels D and E)

Initial calibrations acceptable? ..... Yes No (N/A)

Continuing calibrations acceptable? ..... Yes No (N/A)

Standards traceable? ..... Yes No (N/A)

Standards expired? ..... Yes No (N/A)

Calculation check acceptable? ..... Yes No (N/A)

DDT and endrin breakdowns acceptable? ..... Yes No (N/A)

Comments:

* Water samples
20090575: WA060820090014-001, WA060820090014-002

PESTICIDE/PCB DATA VALIDATION CHECKLIST

3. BLANKS (Levels B, C, D, and E)

Calibration blanks analyzed? (Levels D, E) ..... Yes No N/A

Calibration blank results acceptable? (Levels D, E) ..... Yes No N/A

Laboratory blanks analyzed? ..... Yes No N/A

Laboratory blank results acceptable? ..... Yes No N/A

Field/trip blanks analyzed? (Levels C, D, E) ..... Yes No N/A

Field/trip blank results acceptable? (Levels C, D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

4. ACCURACY (Levels C, D, and E)

Surrogates analyzed? ..... Yes No N/A

Surrogate recoveries acceptable? ..... Yes No N/A

Surrogates traceable? (Levels D, E) ..... Yes No N/A

Surrogates expired? (Levels D, E) ..... Yes No N/A

MS/MSD samples analyzed? ..... Yes No N/A

MS/MSD results acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards expired? (Levels D, E) ..... Yes No N/A

LCS/BSS samples analyzed? ..... Yes No N/A

LCS/BSS results acceptable? ..... Yes No N/A

Standards traceable? (Levels D, E) ..... Yes No N/A

Standards expired? (Levels D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Performance audit sample(s) analyzed? ..... Yes No N/A

Performance audit sample results acceptable? ..... Yes No N/A

Comments:

MSDs were not performed, but LCS/LCSDs and lab duplicates were performed.

Surrogate recovery assessment was not performed due to lack of summary reporting forms in the data package. The client was notified and agreed that assessment should not be performed.

20090575 (water): Aroclor-1016 LCS %R = 44%, Aroclor-1260 LCSD %R = 170%

20090378: Aroclor-1016 MS %R = 194%, Aroclor-1260 MS %R = 218%. The case narrative states the MS was double spiked. Therefore, no MS recovery infractions will be applied for data validation.

PESTICIDE/PCB DATA VALIDATION CHECKLIST

5. PRECISION (Levels C, D, and E)

Duplicate RPD values acceptable? ..... Yes No N/A

Duplicate results acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards expired? (Levels D, E) ..... Yes No N/A

Field duplicate RPD values acceptable? ..... Yes No N/A

Field split RPD values acceptable? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments:

20090575 (water): Aroclor-1016 LCS/LCSD RPD = 90%, Aroclor-1260 LCS/LCSD RPD = 39%

6. SYSTEM PERFORMANCE (Levels D and E)

Chromatographic performance acceptable? ..... Yes No N/A

Positive results resolved acceptably? ..... Yes No N/A

Comments:

7. HOLDING TIMES (all levels)

Samples properly preserved? ..... Yes No N/A

Sample holding times acceptable? ..... Yes No N/A

Comments: None

PESTICIDE/PCB DATA VALIDATION CHECKLIST

8. COMPOUND IDENTIFICATION, QUANTITATION, AND DETECTION LIMITS (all levels)

Compound identification acceptable? (Levels D, E) ..... Yes No N/A

Compound quantitation acceptable? (Levels D, E) ..... Yes No N/A

Results reported for all requested analyses? ..... Yes No N/A

Results supported in the raw data? (Levels D, E) ..... Yes No N/A

Samples properly prepared? (Levels D, E) ..... Yes No N/A

Detection limits meet RDL? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

9. SAMPLE CLEANUP (Levels D and E)

Fluoricil ® (or other absorbent) cleanup performed? ..... Yes No N/A

Lot check performed? ..... Yes No N/A

Check recoveries acceptable? ..... Yes No N/A

GPC cleanup performed? ..... Yes No N/A

GPC check performed? ..... Yes No N/A

GPC check recoveries acceptable? ..... Yes No N/A

GPC calibration performed? ..... Yes No N/A

GPC calibration check performed? ..... Yes No N/A

GPC calibration check retention times acceptable? ..... Yes No N/A

Check/calibration materials traceable? ..... Yes No N/A

Check/calibration materials Expired? ..... Yes No N/A

Analytical batch QC given similar cleanup? ..... Yes No N/A

Transcription/Calculation Errors? ..... Yes No N/A

Comments:

Appendix 6

Additional Documentation Requested By Client

POLYCHLORINATED BIPHENYLS BY GC/DUAL ECD

LABORATORY METHOD: LAP038 Rev 05
ANALYTICAL METHOD: EPA 8082

Initial Calibration Performed: February 4,2010
Sample Analysis Performed: February 4 -6, 2010
Analyst: Erin Stewart

Samples Analyzed in Batch:

CLS LOG Number

WA020620090002-001
WA020620090002-002
WA060820090014-001
WA060820090014-002
WA110620090003-001
WA110620090003-002
WA110820090010-001
WA110820090010-002
WA110820090010-003
WA110820090010-004
WA110820090010-005
WA180820090011-001
WA180820090011-002
WA180820090011-003
WA180820090011-004
WA180820090011-005
WA21042009001-001
WA220620090005-001
WA220620090005-002
WA220620090005-003
WA060120100001-001
WA060120100001-002
WA060120100001-003

Sample Identification	Date Analyzed	Data File ID	Result 1016	Result 1260	Units	Nominal Value	% Recovery / RPD (1016)	% Recovery / RPD(1260)	Acceptance Criteria	Comments
CB	2/4/2010	3100204A\00204_02.D	ND	ND	PPB				< RL	Pass
ICV	2/4/2010	3100204A\00204_09.D	54.2	60	PPB	50	108.40	120.00	80 - 120 %	Pass
CV	2/4/2010	3100204A\00204_10.D	475.3	458.2	PPB	500	95.06	91.64	80 - 120 %	Pass
DL	2/4/2010	3100204A\00204_11.D	57.6	56.9	PPB	50	115.20	113.80	60 - 140 %	Pass
CB	2/4/2010	3100204A\00204_12.D	ND	ND	PPB				< RL	Pass
LCS	2/4/2010	3100204A\00204_13.D	489.5	434.9	PPB	500.00	97.90	86.98	70 - 130 %	Pass
LCSD	2/4/2010	3100204A\00204_14.D	483.4	439.9	PPB		0.31	0.29	RPD < 15%	Pass
MB	2/4/2010	3100204A\00204_15.D	ND	ND	PPB				< RL	Pass
LRB	2/4/2010	3100204A\00204_16.D	ND	ND	PPB				< RL	Pass
WA2142009001-001 MD	2/4/2010	3100204A\00204_17.D	ND	ND	PPB		0.00	0.00	RPD < 15 %	Pass
WA2142009001-001 MS	2/4/2010	3100204A\00204_18.D	441	454	PPB	500	88.20	90.80	80 - 120 %	Pass
WA020620090002-002 MD	2/4/2010	3100204A\00204_22.D	ND	ND	PPB		0.00	0.00	RPD < 15 %	Pass
WA020620090002-002 MS	2/4/2010	3100204A\00204_23.D	968	1090	PPB	500	193.60	218.00	70 - 130 %	Sample doubled spiked
WA1106200090003-002 MD	2/5/2010	3100204A\00204_26.D	ND	ND	PPB		0.00	0.00	RPD < 15 %	Pass
WA1106200090003-002 MS	2/5/2010	3100204A\00204_29.D	457	453	PPB	500	91.40	90.60	70 - 130 %	Pass
CV	2/5/2010	3100204A\00204_27.D	468	468	PPB	500	93.60	93.60	80 - 120 %	Pass
CB	2/5/2010	3100204A\00204_28.D	ND	ND	PPB				< RL	Pass
WA220620090005-001 MD	2/5/2010	3100204A\00204_31'D	ND	ND	PPB		0.00	0.00	RPD < 15 %	Pass
WA220620090005-001 MS	2/5/2010	3100204A\00204_32.D	425	405	PPB	500	85.00	81.00	70 - 130 %	Pass
LCS	2/5/2010	3100204A\00204_33.D	484	405	PPB	500.00	96.80	81.00	70 - 130 %	Pass
LCS DUP	2/5/2010	3100204A\00204_34.D	563	425	PPB		3.77	1.20	RPD < 15%	Pass
MB	2/5/2010	3100204A\00204_35.D	ND	ND	PPB				< RL	Pass
WA110820090010-001 MD	2/5/2010	3100204A\00204_37.D	ND	ND	PPB		0.00	0.00	RPD < 15 %	Pass
WA110820090010-001 MS	2/5/2010	3100204A\00204_38.D	440	465	PPB	500	88.00	93.00	70 - 130 %	Pass
CV	2/5/2010	3100204A\00204_42.D	485	477	PPB	500	97.00	95.40	80 - 120 %	Pass
CB	2/5/2010	3100204A\00204_43.D	ND	ND	PPB				< RL	Pass
WA180820090011-004 MD	2/5/2010	3100204A\00204_49.D	ND	ND	PPB		0.00	0.00	RPD < 15 %	Pass
WA180820090011-004 MS	2/5/2010	3100204A\00204_50.D	466	438	PPB	500	93.20	87.60	70 - 130 %	Pass
CV	2/5/2010	3100204A\00204_52.D	461	433	PPB	500	92.20	86.60	80 - 120 %	Pass
CB	2/5/2010	3100204A\00204_53.D	ND	ND	PPB				< RL	Pass
LRB	2/5/2010	3100204A\00204_54.D	ND	ND	PPB				< RL	Pass
LCS	2/5/2010	3100204A\00204_62.D	ND	442	PPB	500.00	NA	88.40	70 - 130 %	Pass
LCS DUP	2/5/2010	3100204A\00204_63.D	ND	413	PPB		NA	1.70	RPD < 15%	Pass
CV	2/5/2010	3100204A\00204_64.D	483	482	PPB	500	96.60	96.40	80 - 120 %	Pass
CB	2/6/2010	3100204A\00204_65.D	ND	ND	PPB				< RL	Pass
LCS	2/6/2010	3100204A\00204_66.D	417	442	PPB	500.00	83.40	88.40	70 - 130 %	Pass
LCS DUP	2/6/2010	3100204A\00204_67.D	419	423	PPB		0.12	1.10	RPD < 15%	Pass
CV	2/6/2010	3100204A\00204_76.D	489	486	PPB	500	97.80	97.20	80 - 120 %	Pass
CB	2/6/2010	3100204A\00204_77.D	ND	ND	PPB				< RL	Pass
LCS	2/6/2010	3100204A\00204_80.D	438	418	PPB	500.00	87.60	83.60	70 - 130 %	Pass
LCS DUP	2/6/2010	3100204A\00204_81.D	421	444	PPB		0.99	1.51	RPD < 15%	Pass
WA060120100001-003 MD	2/6/2010	3100204A\00204_85.D	ND	ND	PPB		0.00	0.00	RPD < 15 %	Pass
WA060120100001-003 MS	2/6/2010	3100204A\00204_86.D	397	397	PPB	500	79.40	79.40	70 - 130 %	Pass
WA22062009005-003 MD	2/6/2010	3100204A\00204_89.D	ND	ND	PPB		0.00	0.00	RPD < 15 %	Pass
WA22062009005-003 MS	2/6/2010	3100204A\00204_90.D	443	399	PPB	500	88.60	79.80	70 - 130 %	Pass
CV	2/6/2010	3100204A\00204_91.D	507	503	PPB	500	101.40	100.60	80 - 120 %	Pass
CB	2/6/2010	3100204A\00204_92.D	ND	ND	PPB				< RL	Pass
MB	2/6/2010	3100204A\00204_93.D	ND	ND	PPB				< RL	Pass
LCS	2/6/2010	3100204A\00204_94.D	219	571	PPB	500.00	43.80	114.20	70 - 130 %	FAIL
LCS DUP	2/6/2010	3100204A\00204_95.D	575	849	PPB		22.42	9.79	RPD < 15%	FAIL
WA060820090014-001 MD	2/6/2010	3100204A\00204_97.D	ND	ND	PPB		0.00	0.00	RPD < 15 %	Pass
WA060820090014-001 MS	2/6/2010	3100204A\00204_98.D	439	600	PPB	500	87.80	120.00	70 - 130 %	Pass
CV	2/6/2010	3100204A\00204_0A.D	502	496	PPB	500	100.40	99.20	80 - 120 %	Pass
CB	2/6/2010	3100204A\00204_1A.D	ND	ND	PPB				< RL	Pass

Date: 13 September 2010
To: CH2M Hill (technical representative)
From: Analytical Quality Associates, Inc.
Project: WMA C
Subject: PCB Congeners - Sample Data Group (SDG) H0B020462

INTRODUCTION

This memorandum presents the results of data validation for SDG H0B020462 prepared by TestAmerica. A list of samples validated along with the analytical methods is provided in the following table.

Sample ID	Sample Date	Media	Validation Level	Analytical Method
WA210420090001-001	4-19-2009	Soil	C	1668A
WA020620090002-001	5-21-2009	Soil	C	1668A
WA020620090002-002	5-21-2009	Soil	C	1668A
WA110620090003-001	6-03-2009	Soil	C	1668A
WA110620090003-002	6-04-2009	Soil	C	1668A
WA220620090005-001	6-15-2009	Soil	C	1668A
WA220620090005-002	6-15-2009	Soil	C	1668A
WA220620090005-003	6-15-2009	Soil	C	1668A
WA110820090010-001	7-30-2009	Soil	C	1668A
WA110820090010-002	7-30-2009	Soil	C	1668A
WA110820090010-003	7-30-2009	Soil	C	1668A
WA110820090010-004	7-30-2009	Soil	C	1668A
WA110820090010-005	7-30-2009	Soil	C	1668A
WA180820090011-001	8-11-2009	Soil	C	1668A
WA180820090011-002	8-11-2009	Soil	C	1668A
WA180820090011-003	8-11-2009	Soil	C	1668A
WA180820090011-004	8-10-2009	Soil	C	1668A
WA180820090011-005	8-10-2009	Soil	C	1668A
WA060120100001-001	12-29-2009	Soil	C	1668A
WA060120100001-002	12-29-2009	Soil	C	1668A
WA060120100001-003	12-30-2009	Soil	C	1668A
WA060820090001-001	8-03-2009	Water	C	1668A
WA060820090001-002	8-03-2009	Water	C	1668A

Data validation was conducted in accordance with the CHPRC validation statement of work, the Field Sampling and Analysis Plan for Waste Management Area C, RPP-PLAN-40564, Rev. 2 (SAP), and the DOE NNSA Model Data Validation Procedure (MDVP). The MDVP provided guidance on PCB congener data validation that is not provided in the CHPRC chemical data validation procedure, HNF-20433. Appendices 1 through 7 provide the following information as indicated below:

Appendix 1. Glossary of Data Reporting Qualifiers
Appendix 2. Summary of Data Qualification

Appendix 3. Annotated Laboratory Reports
Appendix 4. Laboratory Narrative and Chain-of-Custody Documentation
Appendix 5. Data Validation Supporting Documentation
Appendix 6. Additional Documentation Requested By Client
Appendix 7. Excerpt from the DOE NNSA Model Data Validation Procedure

DATA QUALITY OBJECTIVES

- **Holding Times and Sample Preservation**

Holding times are calculated from Chain-of-Custody forms to determine the validity of the results. There are no holding time requirements for PCB congeners. Sample preservation requires chilling to ≤6 degrees Celsius.

The samples were analyzed within the prescribed holding time and properly preserved.

- **Blanks**

The blank data results are reviewed to assess the extent of contamination introduced through sampling, sample preparation, and analysis.

Laboratory Blanks

The laboratory blank results for many target analytes were > the estimated detection limits but < the minimum levels (see the GC/MS Organic Data Validation Checklist). Associated detected sample results that were < the minimum levels and <5X the laboratory blank results should be qualified as non-detects at the minimum level and flagged "U." See the table in Appendix 2 for a listing of all affected sample results. Associated non-detected sample results and results >5X the laboratory blank results should not be qualified for the laboratory blank infractions.

Trip Blanks

No trip blanks were submitted for validation.

Field Blanks

No field blanks were submitted for validation.

Equipment Blanks

Many target analytes were detected in equipment blank WA060820090001-001. Equipment blank detections that were not present in the laboratory blank and therefore not qualified as non-detects are PCB 2, PCB 6, PCB 40, PCB 41, PCB 68, PCB 71, PCB 90, PCB 101, PCB 110, PCB 113, PCB 115, PCB 129, PCB 138, PCB 147, PCB 149, PCB 153, PCB 160, PCB 163, PCB 168, PCB 180, and PCB 193.

Many target analytes were detected in equipment blank WA060820090001-002. Equipment blank detections that were not present in the laboratory blank and therefore not qualified as non-detects are PCB 44, PCB 47, PCB 65, PCB 68, PCB 83, PCB 90, PCB 99, PCB 101, PCB 110, PCB 113, PCB 115, PCB 118, PCB 129, PCB 138, PCB 153, PCB 160, PCB 163 and PCB 168. It should be noted that the detections for PCB 44, PCB 47 and PCB 65 were > the minimum level.

- **Accuracy**

Accuracy is evaluated by reviewing labeled compound results and laboratory control sample (on-going performance and recovery – OPR) results. According to the SAP, laboratory control sample accuracy limits were to be determined. For data validation, the provided PCB aroclor accuracy limit of 70% to 130% was used for accuracy assessment.

Labeled Compounds

All labeled compound recoveries were acceptable.

Laboratory Control Sample (LCS)

All LCS recoveries were acceptable.

- **Precision**

Precision is evaluated by reviewing LCS/LCSD results, field duplicate sample results, and field split sample results. These QC results provide information on the laboratory reproducibility and whether sampling activities are adequate to acquire consistent sample results. According to the SAP, relative percent difference (RPD) limits were to be determined. For data validation, the provided PCB aroclor RPD limit of ≤30% was used for precision assessment.

LCS/LCSD Samples

An LCSD was not performed. No sample data should be qualified as a result.

Field Duplicate Samples

No field duplicates were submitted for validation.

Field Split Samples

No field splits were submitted for validation.

- **Detection Limits**

Reported detection limits are compared against the contractually required detection limits (CRDLs) to ensure that laboratory detection limits meet the required criteria.

CRDLs for PCB congeners were not provided in the SAP or laboratory statement of work.

- **Completeness**

SDG H0B020462 was submitted for validation and verified for completeness. Completeness is based on the percentage of data determined to be valid (i.e., not rejected). The completion percentage was 100%.

MAJOR DEFICIENCIES

None found.

MINOR DEFICIENCIES

Minor deficiencies leading to qualification of sample results as non-detects were due to laboratory blank infractions. See the table in Appendix 2 for a listing of all affected sample results.

REFERENCES

HNF-20433, Rev. 0, *Data Validation Procedure for Chemical Analyses*, June 2004.

RPP-PLAN-40564, Rev. 2, *Field Sampling and Analysis Plan for Waste Management Area C*, December 2009.

SOW 21065-39, Requisition # 184081, Rev. 0, *General Contractor-Technical Statement of Work*, February 2009.

Appendix 1

Glossary of Data Reporting Qualifiers

Qualifiers that may be applied by data validators in compliance with the CHPRC statement of work are as follows:

- **U** — The constituent was analyzed for and was not detected. The data should be considered usable for decision-making purposes.

- **UJ** — The constituent was analyzed for and was not detected. Due to a quality control deficiency identified during data validation the value reported may not accurately reflect the MDL. The data should be considered usable for decision-making purposes.

- **J** — Indicates the constituent was analyzed for and detected. The associated value is estimated due to a quality control deficiency identified during data validation. The data should be considered usable for decision-making purposes.

- **UR** — Indicates the constituent was analyzed for and not detected; however, due to an identified quality control deficiency the data should be considered unusable for decision-making purposes.

- **R** — Indicates the constituent was analyzed for and detected; however, due to an identified quality control deficiency the data should be considered unusable for decision-making purposes.

Appendix 2

Summary of Data Qualification

PCB Congener Data Qualification Summary			
SDG: H0B020462	Reviewer: AQA	Project: WMA C	Page 1 of 4
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
PCB 11 PCB 20 PCB 28 PCB 31	0.02U	WA210420090001-001 WA020620090002-001 WA020620090002-002 WA110620090003-001 WA110620090003-002 WA220620090005-001 WA220620090005-002 WA220620090005-003 WA110820090010-001 WA110820090010-003 WA110820090010-004	Laboratory blank contamination
PCB 21 PCB 33	0.01U	WA210420090001-001 WA020620090002-001 WA020620090002-002 WA110620090003-001 WA110620090003-002 WA220620090005-001 WA220620090005-002 WA220620090005-003 WA110820090010-001 WA110820090010-003 WA110820090010-004	Laboratory blank contamination
PCB 22	0.01U	WA020620090002-001 WA020620090002-002 WA110820090010-001	Laboratory blank contamination
PCB 44 PCB 47 PCB 65	0.01U	WA210420090001-001 WA020620090002-001 WA020620090002-002 WA110620090003-002 WA220620090005-001 WA220620090005-002 WA220620090005-003 WA110820090010-001 WA110820090010-003 WA110820090010-004	Laboratory blank contamination

PCB Congener Data Qualification Summary			
SDG: H0B020462	Reviewer: AQA	Project: WMA C	Page 2 of 4
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
PCB 61 PCB 70 PCB 74 PCB 76	0.02U	WA210420090001-001 WA020620090002-001 WA020620090002-002 WA110620090003-002 WA220620090005-001 WA220620090005-002 WA220620090005-003 WA110820090010-001 WA110820090010-003 WA110820090010-004	Laboratory blank contamination
PCB 66	0.01U	WA210420090001-001 WA020620090002-001 WA220620090005-002 WA220620090005-003 WA110820090010-004	Laboratory blank contamination
PCB 11 PCB 20 PCB 28 PCB 31	0.02U	WA110820090010-002 WA110820090010-005 WA180820090011-001 WA180820090011-002 WA180820090011-003 WA180820090011-004 WA180820090011-005 WA060120100001-001 WA060120100001-002 WA060120100001-003	Laboratory blank contamination
PCB 44 PCB 47 PCB 65 PCB 129 PCB 138 PCB 160 PCB 163	0.01U	WA110820090010-002 WA110820090010-005 WA180820090011-001 WA180820090011-002 WA180820090011-003 WA180820090011-004 WA180820090011-005 WA060120100001-001 WA060120100001-002 WA060120100001-003	Laboratory blank contamination
PCB 21 PCB 33	0.01U	WA110820090010-002 WA110820090010-005 WA180820090011-002 WA180820090011-004 WA180820090011-005 WA060120100001-001 WA060120100001-002 WA060120100001-003	Laboratory blank contamination

PCB Congener Data Qualification Summary			
SDG: H0B020462	Reviewer: AQA	Project: WMA C	Page 3 of 4
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
PCB 153 PCB 168	0.01U	WA110820090010-002 WA110820090010-005 WA180820090011-004 WA180820090011-005 WA060120100001-001 WA060120100001-002 WA060120100001-003	Laboratory blank contamination
PCB 170 PCB 174	0.01U	WA110820090010-002 WA180820090011-004	Laboratory blank contamination
PCB 180 PCB 193	0.01U	WA110820090010-002 WA180820090011-003 WA180820090011-004 WA180820090011-005	Laboratory blank contamination
PCB 183 PCB 185	0.01U	WA110820090010-002	Laboratory blank contamination
PCB 194	0.01U	WA110820090010-002 WA180820090011-004 WA180820090011-005	Laboratory blank contamination
PCB 206	0.01U	WA110820090010-002 WA180820090011-005	Laboratory blank contamination
PCB 1, PCB 15 PCB 16, PCB 17 PCB 20, PCB 21 PCB 22, PCB 28 PCB 31, PCB 32 PCB 33, PCB 44 PCB 45, PCB 47 PCB 49, PCB 51 PCB 52, PCB 61, PCB 64, PCB 65, PCB 66, PCB 69, PCB 70, PCB 74 PCB 76	0.073U	WA060820090001-001	Laboratory blank contamination
PCB 1, PCB 20 PCB 21, PCB 22 PCB 28, PCB 31 PCB 32, PCB 33 PCB 37, PCB 45 PCB 49, PCB 51 PCB 52, PCB 61 PCB 69, PCB 70 PCB 74, PCB 76	0.12U	WA060820090001-002	Laboratory blank contamination

PCB Congener Data Qualification Summary			
SDG: H0B020462	Reviewer: AQA	Project: WMA C	Page 4 of 4
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
PCB 4, PCB 8 PCB 11, PCB 18 PCB 30	0.11U	WA060820090001-001	Laboratory blank contamination
PCB 8, PCB 11 PCB 18, PCB 30	0.18U	WA060820090001-002	Laboratory blank contamination

Comments: None

Appendix 3

Annotated Laboratory Reports

RJ Lee Group Inc.

Sample ID: WA210420090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 001	Work Order #....:	LT35R1AA	Matrix....:	SOLID
Date Sampled....:	04/19/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.0000966	ng/g
PCB 2 (BZ)		ND		0.0100	0.000120	ng/g
PCB 3 (BZ)		ND		0.0100	0.000154	ng/g
PCB 4 (BZ)		ND		0.0200	0.00196	ng/g
PCB 5 (BZ)		ND		0.0100	0.00166	ng/g
PCB 6 (BZ)		ND		0.0100	0.00156	ng/g
PCB 7 (BZ)		ND		0.0100	0.00161	ng/g
PCB 8 (BZ)		**0.00121**	**Q B J**	**0.0200**	**0.00153**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00162	ng/g
PCB 10 (BZ)		ND		0.0100	0.00174	ng/g
PCB 11 (BZ)	0.02U	**0.00368**	**Q B J**	**0.0200**	**0.00154**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00158	ng/g
PCB 13 (BZ)		ND		0.0100	0.00158	ng/g
PCB 14 (BZ)		ND		0.0100	0.00136	ng/g
PCB 15 (BZ)		ND		0.0100	0.00175	ng/g
PCB 16 (BZ)		ND		0.0100	0.000537	ng/g
PCB 17 (BZ)		ND		0.0100	0.000448	ng/g
PCB 18 (BZ)		**0.000736**	**Q C J**	**0.0200**	**0.000396**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000548	ng/g
PCB 20 (BZ)	0.02U	**0.000959**	**Q B C J**	**0.0200**	**0.000282**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000737**	**B C J**	**0.0100**	**0.000283**	**ng/g**
PCB 22 (BZ)		ND		0.0100	0.000287	ng/g
PCB 23 (BZ)		ND		0.0100	0.000293	ng/g
PCB 24 (BZ)		ND		0.0100	0.000375	ng/g
PCB 25 (BZ)		ND		0.0100	0.000261	ng/g
PCB 26 (BZ)		ND		0.0100	0.000277	ng/g
PCB 27 (BZ)		ND		0.0100	0.000324	ng/g
PCB 28 (BZ)	0.02U	**0.000959**	**Q B C20 J**	**0.0200**	**0.000282**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000277	ng/g
PCB 30 (BZ)		**0.000736**	**Q C18 J**	**0.0200**	**0.000396**	**ng/g**
PCB 31 (BZ)	0.02U	**0.000829**	**Q B J**	**0.0200**	**0.000276**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000317	ng/g
PCB 33 (BZ)	0.01U	**0.000737**	**B C21 J**	**0.0100**	**0.000283**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000289	ng/g
PCB 35 (BZ)		ND		0.0100	0.000297	ng/g
PCB 36 (BZ)		ND		0.0100	0.000287	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA210420090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 001	**Work Order #....:**	LT35R1AA	**Matrix....:**	SOLID
Date Sampled....:	04/19/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000294	ng/g
PCB 38 (BZ)		ND		0.0100	0.000302	ng/g
PCB 39 (BZ)		ND		0.0100	0.000269	ng/g
PCB 40 (BZ)		ND		0.0100	0.000413	ng/g
PCB 41 (BZ)		ND		0.0100	0.000413	ng/g
PCB 42 (BZ)		ND		0.0100	0.000420	ng/g
PCB 43 (BZ)		ND		0.0100	0.000386	ng/g
PCB 44 (BZ)	0.01U	**0.00182**	**B C J**	**0.0100**	**0.000369**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000428	ng/g
PCB 46 (BZ)		ND		0.0100	0.000506	ng/g
PCB 47 (BZ)	0.01U	**0.00182**	**B C44 J**	**0.0100**	**0.000369**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000409	ng/g
PCB 49 (BZ)		ND		0.0100	0.000340	ng/g
PCB 50 (BZ)		ND		0.0100	0.000397	ng/g
PCB 51 (BZ)		ND		0.0100	0.000428	ng/g
PCB 52 (BZ)		**0.000987**	**Q J**	**0.0100**	**0.000398**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000397	ng/g
PCB 54 (BZ)		ND		0.0100	0.000468	ng/g
PCB 55 (BZ)		ND		0.0100	0.000320	ng/g
PCB 56 (BZ)		ND		0.0100	0.000301	ng/g
PCB 57 (BZ)		ND		0.0100	0.000304	ng/g
PCB 58 (BZ)		ND		0.0100	0.000303	ng/g
PCB 59 (BZ)		ND		0.0100	0.000294	ng/g
PCB 60 (BZ)		ND		0.0100	0.000310	ng/g
PCB 61 (BZ)	0.02U	**0.00154**	**B C J**	**0.0200**	**0.000294**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000294	ng/g
PCB 63 (BZ)		ND		0.0100	0.000282	ng/g
PCB 64 (BZ)		ND		0.0100	0.000278	ng/g
PCB 65 (BZ)	0.01U	**0.00182**	**B C44 J**	**0.0100**	**0.000369**	**ng/g**
PCB 66 (BZ)	0.01U	**0.000725**	**B J**	**0.0100**	**0.000292**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000274	ng/g
PCB 68 (BZ)		ND		0.0100	0.000276	ng/g
PCB 69 (BZ)		ND		0.0100	0.000340	ng/g
PCB 70 (BZ)	0.02U	**0.00154**	**B C61 J**	**0.0200**	**0.000294**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000413	ng/g
PCB 72 (BZ)		ND		0.0100	0.000296	ng/g

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9-13-2010

RJ Lee Group Inc.

Sample ID: WA210420090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 001	**Work Order #....:**	LT35R1AA	**Matrix....:**	SOLID
Date Sampled....:	04/19/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0100	0.000386	ng/g
PCB 74 (BZ)	0.02U	**0.00154**	**B C61 J**	**0.0200**	**0.000294**	**ng/g**
PCB 75 (BZ)		ND		0.0100	0.000294	ng/g
PCB 76 (BZ)	0.02U	**0.00154**	**B C61 J**	**0.0200**	**0.000294**	**ng/g**
PCB 77 (BZ)		ND		0.0100	0.000290	ng/g
PCB 78 (BZ)		ND		0.0100	0.000315	ng/g
PCB 79 (BZ)		ND		0.0100	0.000276	ng/g
PCB 80 (BZ)		ND		0.0100	0.000270	ng/g
PCB 81 (BZ)		ND		0.0100	0.000280	ng/g
PCB 82 (BZ)		ND		0.0100	0.000420	ng/g
PCB 83 (BZ)		ND		0.0100	0.000353	ng/g
PCB 84 (BZ)		ND		0.0100	0.000402	ng/g
PCB 85 (BZ)		ND		0.0100	0.000291	ng/g
PCB 86 (BZ)		**0.00106**	**Q C J**	**0.0100**	**0.000298**	**ng/g**
PCB 87 (BZ)		**0.00106**	**Q C86 J**	**0.0100**	**0.000298**	**ng/g**
PCB 88 (BZ)		ND		0.0100	0.000358	ng/g
PCB 89 (BZ)		ND		0.0100	0.000389	ng/g
PCB 90 (BZ)		**0.00105**	**Q C J**	**0.0100**	**0.000303**	**ng/g**
PCB 91 (BZ)		ND		0.0100	0.000358	ng/g
PCB 92 (BZ)		ND		0.0100	0.000344	ng/g
PCB 93 (BZ)		ND		0.0100	0.000345	ng/g
PCB 94 (BZ)		ND		0.0100	0.000389	ng/g
PCB 95 (BZ)		ND		0.0100	0.000366	ng/g
PCB 96 (BZ)		ND		0.0100	0.000291	ng/g
PCB 97 (BZ)		**0.00106**	**Q C86 J**	**0.0100**	**0.000298**	**ng/g**
PCB 98 (BZ)		ND		0.0100	0.000335	ng/g
PCB 99 (BZ)		ND		0.0100	0.000353	ng/g
PCB 100 (BZ)		ND		0.0100	0.000345	ng/g
PCB 101 (BZ)		**0.00105**	**Q C90 J**	**0.0100**	**0.000303**	**ng/g**
PCB 102 (BZ)		ND		0.0100	0.000335	ng/g
PCB 103 (BZ)		ND		0.0100	0.000341	ng/g
PCB 104 (BZ)		ND		0.0100	0.000259	ng/g
PCB 105 (BZ)		**0.000607**	**Q J**	**0.0100**	**0.000281**	**ng/g**
PCB 106 (BZ)		ND		0.0100	0.000291	ng/g
PCB 107 (BZ)/109 (IUPAC)		ND		0.0100	0.000282	ng/g
PCB 108 (BZ)/107 (IUPAC)		ND		0.0100	0.000297	ng/g

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9-13-2010

RJ Lee Group Inc.

Sample ID: WA210420090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 001	**Work Order #....:**	LT35R1AA	**Matrix....:**	SOLID
Date Sampled....:	04/19/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	**0.00106**	**Q C86 J**	**0.0100**	**0.000298**	**ng/g**
PCB 110 (BZ)	**0.00161**	**C J**	**0.0100**	**0.000257**	**ng/g**
PCB 111 (BZ)	ND		0.0100	0.000243	ng/g
PCB 112 (BZ)	ND		0.0100	0.000264	ng/g
PCB 113 (BZ)	**0.00105**	**Q C90 J**	**0.0100**	**0.000303**	**ng/g**
PCB 114 (BZ)	ND		0.0100	0.000262	ng/g
PCB 115 (BZ)	**0.00161**	**C110 J**	**0.0100**	**0.000257**	**ng/g**
PCB 116 (BZ)	ND		0.0100	0.000291	ng/g
PCB 117 (BZ)	ND		0.0100	0.000291	ng/g
PCB 118 (BZ)	**0.00124**	**Q J**	**0.0100**	**0.000277**	**ng/g**
PCB 119 (BZ)	**0.00106**	**Q C86 J**	**0.0100**	**0.000298**	**ng/g**
PCB 120 (BZ)	ND		0.0100	0.000250	ng/g
PCB 121 (BZ)	ND		0.0100	0.000252	ng/g
PCB 122 (BZ)	ND		0.0100	0.000317	ng/g
PCB 123 (BZ)	ND		0.0100	0.000295	ng/g
PCB 124 (BZ)	ND		0.0100	0.000297	ng/g
PCB 125 (BZ)	**0.00106**	**Q C86 J**	**0.0100**	**0.000298**	**ng/g**
PCB 126 (BZ)	ND		0.0100	0.000283	ng/g
PCB 127 (BZ)	ND		0.0100	0.000288	ng/g
PCB 128 (BZ)	ND		0.0100	0.000445	ng/g
PCB 129 (BZ)	**0.00271**	**C J**	**0.0100**	**0.000460**	**ng/g**
PCB 130 (BZ)	ND		0.0100	0.000595	ng/g
PCB 131 (BZ)	ND		0.0100	0.000609	ng/g
PCB 132 (BZ)	ND		0.0100	0.000580	ng/g
PCB 133 (BZ)	ND		0.0100	0.000559	ng/g
PCB 134 (BZ)	ND		0.0100	0.000595	ng/g
PCB 135 (BZ)	ND		0.0100	0.000510	ng/g
PCB 136 (BZ)	ND		0.0100	0.000374	ng/g
PCB 137 (BZ)	ND		0.0100	0.000513	ng/g
PCB 138 (BZ)	**0.00271**	**C129 J**	**0.0100**	**0.000460**	**ng/g**
PCB 139 (BZ)	ND		0.0100	0.000510	ng/g
PCB 140 (BZ)	ND		0.0100	0.000510	ng/g
PCB 141 (BZ)	ND		0.0100	0.000531	ng/g
PCB 142 (BZ)	ND		0.0100	0.000586	ng/g
PCB 143 (BZ)	ND		0.0100	0.000595	ng/g
PCB 144 (BZ)	ND		0.0100	0.000473	ng/g

RJ Lee Group Inc.

Sample ID: WA210420090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 001	**Work Order #....:**	LT35R1AA	**Matrix....:**	SOLID
Date Sampled....:	04/19/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0100	0.000358	ng/g
PCB 146 (BZ)	ND		0.0100	0.000484	ng/g
PCB 147 (BZ)	**0.00223**	**C J**	**0.0100**	**0.000495**	**ng/g**
PCB 148 (BZ)	ND		0.0100	0.000501	ng/g
PCB 149 (BZ)	**0.00223**	**C147 J**	**0.0100**	**0.000495**	**ng/g**
PCB 150 (BZ)	ND		0.0100	0.000349	ng/g
PCB 151 (BZ)	ND		0.0100	0.000510	ng/g
PCB 152 (BZ)	ND		0.0100	0.000356	ng/g
PCB 153 (BZ)	**0.00124**	**Q C J**	**0.0100**	**0.000398**	**ng/g**
PCB 154 (BZ)	ND		0.0100	0.000415	ng/g
PCB 155 (BZ)	ND		0.0100	0.000339	ng/g
PCB 156 (BZ)	ND		0.0100	0.000488	ng/g
PCB 157 (BZ)	ND		0.0100	0.000488	ng/g
PCB 158 (BZ)	ND		0.0100	0.000363	ng/g
PCB 159 (BZ)	ND		0.0100	0.000390	ng/g
PCB 160 (BZ)	**0.00271**	**C129 J**	**0.0100**	**0.000460**	**ng/g**
PCB 161 (BZ)	ND		0.0100	0.000388	ng/g
PCB 162 (BZ)	ND		0.0100	0.000385	ng/g
PCB 163 (BZ)	**0.00271**	**C129 J**	**0.0100**	**0.000460**	**ng/g**
PCB 164 (BZ)	ND		0.0100	0.000406	ng/g
PCB 165 (BZ)	ND		0.0100	0.000426	ng/g
PCB 166 (BZ)	ND		0.0100	0.000445	ng/g
PCB 167 (BZ)	ND		0.0100	0.000293	ng/g
PCB 168 (BZ)	**0.00124**	**Q C153 J**	**0.0100**	**0.000398**	**ng/g**
PCB 169 (BZ)	ND		0.0100	0.000296	ng/g
PCB 170 (BZ)	**0.000990**	**J**	**0.0100**	**0.000465**	**ng/g**
PCB 171 (BZ)	ND		0.0100	0.000441	ng/g
PCB 172 (BZ)	ND		0.0100	0.000437	ng/g
PCB 173 (BZ)	ND		0.0100	0.000441	ng/g
PCB 174 (BZ)	**0.000885**	**Q J**	**0.0100**	**0.000409**	**ng/g**
PCB 175 (BZ)	ND		0.0100	0.000392	ng/g
PCB 176 (BZ)	ND		0.0100	0.000299	ng/g
PCB 177 (BZ)	ND		0.0100	0.000419	ng/g
PCB 178 (BZ)	ND		0.0100	0.000424	ng/g
PCB 179 (BZ)	ND		0.0100	0.000315	ng/g
PCB 180 (BZ)	**0.00166**	**Q C J**	**0.0100**	**0.000333**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA210420090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 001	**Work Order #....:**	LT35R1AA	**Matrix....:**	SOLID
Date Sampled....:	04/19/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000392	ng/g
PCB 182 (BZ)	ND		0.0100	0.000381	ng/g
PCB 183 (BZ)	ND		0.0100	0.000390	ng/g
PCB 184 (BZ)	ND		0.0100	0.000324	ng/g
PCB 185 (BZ)	ND		0.0100	0.000390	ng/g
PCB 186 (BZ)	ND		0.0100	0.000314	ng/g
PCB 187 (BZ)	**0.00102**	**J**	**0.0100**	**0.000365**	**ng/g**
PCB 188 (BZ)	ND		0.0100	0.000277	ng/g
PCB 189 (BZ)	ND		0.0100	0.000298	ng/g
PCB 190 (BZ)	ND		0.0100	0.000304	ng/g
PCB 191 (BZ)	ND		0.0100	0.000299	ng/g
PCB 192 (BZ)	ND		0.0100	0.000334	ng/g
PCB 193 (BZ)	**0.00166**	**Q C180 J**	**0.0100**	**0.000333**	**ng/g**
PCB 194 (BZ)	ND		0.0100	0.000298	ng/g
PCB 195 (BZ)	ND		0.0100	0.000323	ng/g
PCB 196 (BZ)	ND		0.0100	0.000356	ng/g
PCB 197 (BZ)	ND		0.0100	0.000265	ng/g
PCB 198 (BZ)	ND		0.0100	0.000368	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND		0.0100	0.000368	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND		0.0100	0.000260	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND		0.0100	0.000251	ng/g
PCB 202 (BZ)	ND		0.0100	0.000283	ng/g
PCB 203 (BZ)	ND		0.0100	0.000329	ng/g
PCB 204 (BZ)	ND		0.0100	0.000276	ng/g
PCB 205 (BZ)	ND		0.0100	0.000251	ng/g
PCB 206 (BZ)	ND		0.0100	0.000387	ng/g
PCB 207 (BZ)	ND		0.0100	0.000291	ng/g
PCB 208 (BZ)	ND		0.0100	0.000315	ng/g
PCB 209 (BZ)	ND		0.0100	0.000474	ng/g

RJ Lee Group Inc.

Sample ID: WA210420090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 001	**Work Order #....:**	LT35R1AA	**Matrix....:**	SOLID
Date Sampled....:	04/19/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	66		30 - 140
13C12-PCB 3	57		30 - 140
13C12-PCB 4	78		30 - 140
13C12-PCB 15	70		30 - 140
13C12-PCB 19	76		30 - 140
13C12-PCB 37	75		30 - 140
13C12-PCB 54	74		30 - 140
13C12-PCB 77	75		30 - 140
13C12-PCB 81	75		30 - 140
13C12-PCB 104	82		30 - 140
13C12-PCB 105	80		30 - 140
13C12-PCB 114	82		30 - 140
13C12-PCB 118	78		30 - 140
13C12-PCB 123	79		30 - 140
13C12-PCB 126	84		30 - 140
13C12-PCB 155	94		30 - 140
13C12-PCB 156	84	C	30 - 140
13C12-PCB 157	84	C	30 - 140
13C12-PCB 167	80		30 - 140
13C12-PCB 169	82		30 - 140
13C12-PCB 170	90		30 - 140
13C12-PCB 188	94		30 - 140
13C12-PCB 189	82		30 - 140
13C12-PCB 202	107		30 - 140
13C12-PCB 205	94		30 - 140
13C12-PCB 206	103		30 - 140
13C12-PCB 208	96		30 - 140
13C12-PCB 209	99		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	78	40 - 125
13C12-PCB 111	85	40 - 125
13C12-PCB 178	83	40 - 125

RJ Lee Group Inc.

Sample ID: WA210420090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 001	**Work Order #....:**	LT35R1AA	**Matrix....:**	SOLID
Date Sampled....:	04/19/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA020620090002-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 002	**Work Order #....:**	LT35V1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000105	ng/g
PCB 2 (BZ)		ND		0.0100	0.000118	ng/g
PCB 3 (BZ)		ND		0.0100	0.000134	ng/g
PCB 4 (BZ)		ND		0.0200	0.00191	ng/g
PCB 5 (BZ)		ND		0.0100	0.00148	ng/g
PCB 6 (BZ)		ND		0.0100	0.00140	ng/g
PCB 7 (BZ)		ND		0.0100	0.00144	ng/g
PCB 8 (BZ)		**0.00210**	**Q B J**	**0.0200**	**0.00137**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00144	ng/g
PCB 10 (BZ)		ND		0.0100	0.00155	ng/g
PCB 11 (BZ)	0.02U	**0.00326**	**Q B J**	**0.0200**	**0.00137**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00141	ng/g
PCB 13 (BZ)		ND		0.0100	0.00141	ng/g
PCB 14 (BZ)		ND		0.0100	0.00121	ng/g
PCB 15 (BZ)		**0.000633**	**Q J**	**0.0100**	**0.00145**	**ng/g**
PCB 16 (BZ)		ND		0.0100	0.000498	ng/g
PCB 17 (BZ)		ND		0.0100	0.000416	ng/g
PCB 18 (BZ)		**0.00164**	**C J**	**0.0200**	**0.000368**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000510	ng/g
PCB 20 (BZ)	0.02U	**0.00126**	**Q B C J**	**0.0200**	**0.000256**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000867**	**B C J**	**0.0100**	**0.000257**	**ng/g**
PCB 22 (BZ)	0.01U	**0.000608**	**B J**	**0.0100**	**0.000261**	**ng/g**
PCB 23 (BZ)		ND		0.0100	0.000266	ng/g
PCB 24 (BZ)		ND		0.0100	0.000348	ng/g
PCB 25 (BZ)		ND		0.0100	0.000237	ng/g
PCB 26 (BZ)		ND		0.0100	0.000252	ng/g
PCB 27 (BZ)		ND		0.0100	0.000301	ng/g
PCB 28 (BZ)	0.02U	**0.00126**	**Q B C20 J**	**0.0200**	**0.000256**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000252	ng/g
PCB 30 (BZ)		**0.00164**	**C18 J**	**0.0200**	**0.000368**	**ng/g**
PCB 31 (BZ)	0.02U	**0.00105**	**Q B J**	**0.0200**	**0.000250**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000295	ng/g
PCB 33 (BZ)	0.01U	**0.000867**	**B C21 J**	**0.0100**	**0.000257**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000262	ng/g
PCB 35 (BZ)		ND		0.0100	0.000269	ng/g
PCB 36 (BZ)		ND		0.0100	0.000260	ng/g

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9-13-2010

RJ Lee Group Inc.

Sample ID: WA020620090002-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 002	**Work Order #....:**	LT35V1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000267	ng/g
PCB 38 (BZ)		ND		0.0100	0.000274	ng/g
PCB 39 (BZ)		ND		0.0100	0.000244	ng/g
PCB 40 (BZ)		ND		0.0100	0.000342	ng/g
PCB 41 (BZ)		ND		0.0100	0.000342	ng/g
PCB 42 (BZ)		ND		0.0100	0.000348	ng/g
PCB 43 (BZ)		ND		0.0100	0.000319	ng/g
PCB 44 (BZ)	0.01U	**0.00188**	**B C J**	**0.0100**	**0.000306**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000354	ng/g
PCB 46 (BZ)		ND		0.0100	0.000419	ng/g
PCB 47 (BZ)	0.01U	**0.00188**	**B C44 J**	**0.0100**	**0.000306**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000339	ng/g
PCB 49 (BZ)		**0.000517**	**Q C J**	**0.0100**	**0.000281**	**ng/g**
PCB 50 (BZ)		ND		0.0100	0.000329	ng/g
PCB 51 (BZ)		ND		0.0100	0.000354	ng/g
PCB 52 (BZ)		**0.00181**	**Q J**	**0.0100**	**0.000329**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000329	ng/g
PCB 54 (BZ)		ND		0.0100	0.000371	ng/g
PCB 55 (BZ)		ND		0.0100	0.000265	ng/g
PCB 56 (BZ)		ND		0.0100	0.000249	ng/g
PCB 57 (BZ)		ND		0.0100	0.000252	ng/g
PCB 58 (BZ)		ND		0.0100	0.000251	ng/g
PCB 59 (BZ)		ND		0.0100	0.000243	ng/g
PCB 60 (BZ)		ND		0.0100	0.000256	ng/g
PCB 61 (BZ)	0.02U	**0.00158**	**B C J**	**0.0200**	**0.000243**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000243	ng/g
PCB 63 (BZ)		ND		0.0100	0.000234	ng/g
PCB 64 (BZ)		**0.000435**	**Q J**	**0.0100**	**0.000230**	**ng/g**
PCB 65 (BZ)	0.01U	**0.00188**	**B C44 J**	**0.0100**	**0.000306**	**ng/g**
PCB 66 (BZ)	0.01U	**0.000458**	**Q B J**	**0.0100**	**0.000241**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000227	ng/g
PCB 68 (BZ)		ND		0.0100	0.000228	ng/g
PCB 69 (BZ)		**0.000517**	**Q C49 J**	**0.0100**	**0.000281**	**ng/g**
PCB 70 (BZ)	0.02U	**0.00158**	**B C61 J**	**0.0200**	**0.000243**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000342	ng/g
PCB 72 (BZ)		ND		0.0100	0.000245	ng/g

RJ Lee Group Inc.

Sample ID: WA020620090002-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 002	**Work Order #....:**	LT35V1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0100	0.000319	ng/g
PCB 74 (BZ)	0.02U	**0.00158**	**B C61 J**	**0.0200**	**0.000243**	**ng/g**
PCB 75 (BZ)		ND		0.0100	0.000243	ng/g
PCB 76 (BZ)	0.02U	**0.00158**	**B C61 J**	**0.0200**	**0.000243**	**ng/g**
PCB 77 (BZ)		ND		0.0100	0.000238	ng/g
PCB 78 (BZ)		ND		0.0100	0.000260	ng/g
PCB 79 (BZ)		ND		0.0100	0.000229	ng/g
PCB 80 (BZ)		ND		0.0100	0.000223	ng/g
PCB 81 (BZ)		ND		0.0100	0.000234	ng/g
PCB 82 (BZ)		ND		0.0100	0.000437	ng/g
PCB 83 (BZ)		ND		0.0100	0.000367	ng/g
PCB 84 (BZ)		ND		0.0100	0.000417	ng/g
PCB 85 (BZ)		ND		0.0100	0.000302	ng/g
PCB 86 (BZ)		**0.00153**	**Q C J**	**0.0100**	**0.000309**	**ng/g**
PCB 87 (BZ)		**0.00153**	**Q C86 J**	**0.0100**	**0.000309**	**ng/g**
PCB 88 (BZ)		ND		0.0100	0.000372	ng/g
PCB 89 (BZ)		ND		0.0100	0.000404	ng/g
PCB 90 (BZ)		**0.00297**	**C J**	**0.0100**	**0.000315**	**ng/g**
PCB 91 (BZ)		ND		0.0100	0.000372	ng/g
PCB 92 (BZ)		ND		0.0100	0.000357	ng/g
PCB 93 (BZ)		ND		0.0100	0.000358	ng/g
PCB 94 (BZ)		ND		0.0100	0.000403	ng/g
PCB 95 (BZ)		**0.00276**	**J**	**0.0100**	**0.000380**	**ng/g**
PCB 96 (BZ)		ND		0.0100	0.000302	ng/g
PCB 97 (BZ)		**0.00153**	**Q C86 J**	**0.0100**	**0.000309**	**ng/g**
PCB 98 (BZ)		ND		0.0100	0.000347	ng/g
PCB 99 (BZ)		ND		0.0100	0.000367	ng/g
PCB 100 (BZ)		ND		0.0100	0.000358	ng/g
PCB 101 (BZ)		**0.00297**	**C90 J**	**0.0100**	**0.000315**	**ng/g**
PCB 102 (BZ)		ND		0.0100	0.000347	ng/g
PCB 103 (BZ)		ND		0.0100	0.000354	ng/g
PCB 104 (BZ)		ND		0.0100	0.000269	ng/g
PCB 105 (BZ)		**0.000678**	**Q J**	**0.0100**	**0.000307**	**ng/g**
PCB 106 (BZ)		ND		0.0100	0.000322	ng/g
PCB 107 (BZ)/109 (IUPAC)		ND		0.0100	0.000312	ng/g
PCB 108 (BZ)/107 (IUPAC)		ND		0.0100	0.000329	ng/g

RJ Lee Group Inc.

Sample ID: WA020620090002-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 002	**Work Order #....:**	LT35V1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	**0.00153**	**Q C86 J**	**0.0100**	**0.000309**	**ng/g**
PCB 110 (BZ)	**0.00529**	**C J**	**0.0100**	**0.000267**	**ng/g**
PCB 111 (BZ)	ND		0.0100	0.000253	ng/g
PCB 112 (BZ)	ND		0.0100	0.000275	ng/g
PCB 113 (BZ)	**0.00297**	**C90 J**	**0.0100**	**0.000315**	**ng/g**
PCB 114 (BZ)	ND		0.0100	0.000294	ng/g
PCB 115 (BZ)	**0.00529**	**C110 J**	**0.0100**	**0.000267**	**ng/g**
PCB 116 (BZ)	ND		0.0100	0.000302	ng/g
PCB 117 (BZ)	ND		0.0100	0.000302	ng/g
PCB 118 (BZ)	**0.00239**	**Q J**	**0.0100**	**0.000304**	**ng/g**
PCB 119 (BZ)	**0.00153**	**Q C86 J**	**0.0100**	**0.000309**	**ng/g**
PCB 120 (BZ)	ND		0.0100	0.000260	ng/g
PCB 121 (BZ)	ND		0.0100	0.000262	ng/g
PCB 122 (BZ)	ND		0.0100	0.000351	ng/g
PCB 123 (BZ)	ND		0.0100	0.000319	ng/g
PCB 124 (BZ)	ND		0.0100	0.000329	ng/g
PCB 125 (BZ)	**0.00153**	**Q C86 J**	**0.0100**	**0.000309**	**ng/g**
PCB 126 (BZ)	ND		0.0100	0.000321	ng/g
PCB 127 (BZ)	ND		0.0100	0.000318	ng/g
PCB 128 (BZ)	**0.00447**	**C J**	**0.0100**	**0.000590**	**ng/g**
PCB 129 (BZ)	**0.0462**	**C**	**0.0100**	**0.000610**	**ng/g**
PCB 130 (BZ)	**0.00133**	**Q J**	**0.0100**	**0.000787**	**ng/g**
PCB 131 (BZ)	ND		0.0100	0.000806	ng/g
PCB 132 (BZ)	**0.0131**		**0.0100**	**0.000767**	**ng/g**
PCB 133 (BZ)	ND		0.0100	0.000740	ng/g
PCB 134 (BZ)	ND		0.0100	0.000788	ng/g
PCB 135 (BZ)	**0.0121**	**Q C**	**0.0100**	**0.000663**	**ng/g**
PCB 136 (BZ)	**0.00673**	**J**	**0.0100**	**0.000487**	**ng/g**
PCB 137 (BZ)	ND		0.0100	0.000679	ng/g
PCB 138 (BZ)	**0.0462**	**C129**	**0.0100**	**0.000610**	**ng/g**
PCB 139 (BZ)	ND		0.0100	0.000675	ng/g
PCB 140 (BZ)	ND		0.0100	0.000675	ng/g
PCB 141 (BZ)	**0.00581**	**J**	**0.0100**	**0.000703**	**ng/g**
PCB 142 (BZ)	ND		0.0100	0.000775	ng/g
PCB 143 (BZ)	ND		0.0100	0.000788	ng/g
PCB 144 (BZ)	ND		0.0100	0.000616	ng/g

RJ Lee Group Inc.

Sample ID: WA020620090002-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 002	**Work Order #....:**	LT35V1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0100	0.000466	ng/g
PCB 146 (BZ)	**0.00574**	**J**	**0.0100**	**0.000641**	**ng/g**
PCB 147 (BZ)	**0.0485**	**C**	**0.0100**	**0.000655**	**ng/g**
PCB 148 (BZ)	ND		0.0100	0.000651	ng/g
PCB 149 (BZ)	**0.0485**	**C147**	**0.0100**	**0.000655**	**ng/g**
PCB 150 (BZ)	ND		0.0100	0.000454	ng/g
PCB 151 (BZ)	**0.0121**	**Q C135**	**0.0100**	**0.000663**	**ng/g**
PCB 152 (BZ)	ND		0.0100	0.000463	ng/g
PCB 153 (BZ)	**0.0284**	**C**	**0.0100**	**0.000527**	**ng/g**
PCB 154 (BZ)	ND		0.0100	0.000540	ng/g
PCB 155 (BZ)	ND		0.0100	0.000441	ng/g
PCB 156 (BZ)	**0.000999**	**C J**	**0.0100**	**0.000657**	**ng/g**
PCB 157 (BZ)	**0.000999**	**C156 J**	**0.0100**	**0.000657**	**ng/g**
PCB 158 (BZ)	**0.00266**	**Q J**	**0.0100**	**0.000481**	**ng/g**
PCB 159 (BZ)	**0.000683**	**Q J**	**0.0100**	**0.000516**	**ng/g**
PCB 160 (BZ)	**0.0462**	**C129**	**0.0100**	**0.000610**	**ng/g**
PCB 161 (BZ)	ND		0.0100	0.000513	ng/g
PCB 162 (BZ)	**0.000792**	**J**	**0.0100**	**0.000509**	**ng/g**
PCB 163 (BZ)	**0.0462**	**C129**	**0.0100**	**0.000610**	**ng/g**
PCB 164 (BZ)	**0.00549**	**J**	**0.0100**	**0.000537**	**ng/g**
PCB 165 (BZ)	ND		0.0100	0.000564	ng/g
PCB 166 (BZ)	**0.00447**	**C128 J**	**0.0100**	**0.000590**	**ng/g**
PCB 167 (BZ)	ND		0.0100	0.000385	ng/g
PCB 168 (BZ)	**0.0284**	**C153**	**0.0100**	**0.000527**	**ng/g**
PCB 169 (BZ)	ND		0.0100	0.000387	ng/g
PCB 170 (BZ)	**0.0463**		**0.0100**	**0.000617**	**ng/g**
PCB 171 (BZ)	**0.0116**	**C**	**0.0100**	**0.000607**	**ng/g**
PCB 172 (BZ)	**0.00565**	**J**	**0.0100**	**0.000601**	**ng/g**
PCB 173 (BZ)	**0.0116**	**C171**	**0.0100**	**0.000607**	**ng/g**
PCB 174 (BZ)	**0.0393**		**0.0100**	**0.000563**	**ng/g**
PCB 175 (BZ)	ND		0.0100	0.000540	ng/g
PCB 176 (BZ)	**0.00385**	**J**	**0.0100**	**0.000412**	**ng/g**
PCB 177 (BZ)	**0.0245**		**0.0100**	**0.000576**	**ng/g**
PCB 178 (BZ)	**0.00636**	**J**	**0.0100**	**0.000584**	**ng/g**
PCB 179 (BZ)	**0.0150**		**0.0100**	**0.000434**	**ng/g**
PCB 180 (BZ)	**0.0837**	**C**	**0.0100**	**0.000459**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA020620090002-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 002	**Work Order #....:**	LT35V1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000540	ng/g
PCB 182 (BZ)	ND		0.0100	0.000525	ng/g
PCB 183 (BZ)	**0.0256**	**Q C**	**0.0100**	**0.000536**	**ng/g**
PCB 184 (BZ)	ND		0.0100	0.000446	ng/g
PCB 185 (BZ)	**0.0256**	**Q C183**	**0.0100**	**0.000536**	**ng/g**
PCB 186 (BZ)	ND		0.0100	0.000433	ng/g
PCB 187 (BZ)	**0.0480**		**0.0100**	**0.000502**	**ng/g**
PCB 188 (BZ)	ND		0.0100	0.000390	ng/g
PCB 189 (BZ)	**0.000869**	**Q J**	**0.0100**	**0.000454**	**ng/g**
PCB 190 (BZ)	**0.00655**	**J**	**0.0100**	**0.000418**	**ng/g**
PCB 191 (BZ)	**0.00119**	**Q J**	**0.0100**	**0.000411**	**ng/g**
PCB 192 (BZ)	ND		0.0100	0.000459	ng/g
PCB 193 (BZ)	**0.0837**	**C180**	**0.0100**	**0.000459**	**ng/g**
PCB 194 (BZ)	**0.0168**		**0.0100**	**0.000422**	**ng/g**
PCB 195 (BZ)	**0.00622**	**J**	**0.0100**	**0.000459**	**ng/g**
PCB 196 (BZ)	**0.00746**	**Q J**	**0.0100**	**0.000483**	**ng/g**
PCB 197 (BZ)	ND		0.0100	0.000360	ng/g
PCB 198 (BZ)	**0.0163**	**C**	**0.0100**	**0.000499**	**ng/g**
PCB 201 (BZ)/199 (IUPAC)	**0.0163**	**C198**	**0.0100**	**0.000499**	**ng/g**
PCB 199 (BZ)/200 (IUPAC)	**0.00111**	**Q J**	**0.0100**	**0.000353**	**ng/g**
PCB 200 (BZ)/201 (IUPAC)	**0.00118**	**J**	**0.0100**	**0.000341**	**ng/g**
PCB 202 (BZ)	**0.00181**	**Q J**	**0.0100**	**0.000384**	**ng/g**
PCB 203 (BZ)	**0.00899**	**Q J**	**0.0100**	**0.000446**	**ng/g**
PCB 204 (BZ)	ND		0.0100	0.000374	ng/g
PCB 205 (BZ)	**0.000596**	**Q J**	**0.0100**	**0.000356**	**ng/g**
PCB 206 (BZ)	**0.00318**	**J**	**0.0100**	**0.000372**	**ng/g**
PCB 207 (BZ)	ND		0.0100	0.000275	ng/g
PCB 208 (BZ)	ND		0.0100	0.000294	ng/g
PCB 209 (BZ)	**0.00196**	**Q J**	**0.0100**	**0.000381**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA020620090002-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 002	**Work Order #....:**	LT35V1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	59		30 - 140
13C12-PCB 3	60		30 - 140
13C12-PCB 4	72		30 - 140
13C12-PCB 15	77		30 - 140
13C12-PCB 19	75		30 - 140
13C12-PCB 37	81		30 - 140
13C12-PCB 54	77		30 - 140
13C12-PCB 77	79		30 - 140
13C12-PCB 81	79		30 - 140
13C12-PCB 104	87		30 - 140
13C12-PCB 105	84		30 - 140
13C12-PCB 114	86		30 - 140
13C12-PCB 118	83		30 - 140
13C12-PCB 123	84		30 - 140
13C12-PCB 126	87		30 - 140
13C12-PCB 155	97		30 - 140
13C12-PCB 156	86	C	30 - 140
13C12-PCB 157	86	C	30 - 140
13C12-PCB 167	84		30 - 140
13C12-PCB 169	86		30 - 140
13C12-PCB 170	95		30 - 140
13C12-PCB 188	100		30 - 140
13C12-PCB 189	82		30 - 140
13C12-PCB 202	113		30 - 140
13C12-PCB 205	96		30 - 140
13C12-PCB 206	104		30 - 140
13C12-PCB 208	101		30 - 140
13C12-PCB 209	101		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	83	40 - 125
13C12-PCB 111	88	40 - 125
13C12-PCB 178	89	40 - 125

RJ Lee Group Inc.

Sample ID: WA020620090002-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 002	**Work Order #....:**	LT35V1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA020620090002-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 003	**Work Order #....:**	LT35W1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000117	ng/g
PCB 2 (BZ)		ND		0.0100	0.000136	ng/g
PCB 3 (BZ)		ND		0.0100	0.000160	ng/g
PCB 4 (BZ)		ND		0.0200	0.00197	ng/g
PCB 5 (BZ)		ND		0.0100	0.00166	ng/g
PCB 6 (BZ)		ND		0.0100	0.00156	ng/g
PCB 7 (BZ)		ND		0.0100	0.00161	ng/g
PCB 8 (BZ)		**0.00102**	**Q B J**	**0.0200**	**0.00153**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00161	ng/g
PCB 10 (BZ)		ND		0.0100	0.00173	ng/g
PCB 11 (BZ)	0.02U	**0.00246**	**Q B J**	**0.0200**	**0.00154**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00158	ng/g
PCB 13 (BZ)		ND		0.0100	0.00158	ng/g
PCB 14 (BZ)		ND		0.0100	0.00136	ng/g
PCB 15 (BZ)		**0.000670**	**Q J**	**0.0100**	**0.00174**	**ng/g**
PCB 16 (BZ)		ND		0.0100	0.000508	ng/g
PCB 17 (BZ)		ND		0.0100	0.000423	ng/g
PCB 18 (BZ)		**0.00115**	**Q C J**	**0.0200**	**0.000375**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000519	ng/g
PCB 20 (BZ)	0.02U	**0.00107**	**Q B C J**	**0.0200**	**0.000276**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000540**	**Q B C J**	**0.0100**	**0.000277**	**ng/g**
PCB 22 (BZ)	0.01U	**0.000351**	**Q B J**	**0.0100**	**0.000281**	**ng/g**
PCB 23 (BZ)		ND		0.0100	0.000287	ng/g
PCB 24 (BZ)		ND		0.0100	0.000355	ng/g
PCB 25 (BZ)		ND		0.0100	0.000256	ng/g
PCB 26 (BZ)		ND		0.0100	0.000271	ng/g
PCB 27 (BZ)		ND		0.0100	0.000306	ng/g
PCB 28 (BZ)	0.02U	**0.00107**	**Q B C20 J**	**0.0200**	**0.000276**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000271	ng/g
PCB 30 (BZ)		**0.00115**	**Q C18 J**	**0.0200**	**0.000375**	**ng/g**
PCB 31 (BZ)	0.02U	**0.00127**	**B J**	**0.0200**	**0.000270**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000300	ng/g
PCB 33 (BZ)	0.01U	**0.000540**	**Q B C21 J**	**0.0100**	**0.000277**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000282	ng/g
PCB 35 (BZ)		ND		0.0100	0.000290	ng/g
PCB 36 (BZ)		ND		0.0100	0.000280	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA020620090002-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 003	**Work Order #....:**	LT35W1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000288	ng/g
PCB 38 (BZ)		ND		0.0100	0.000296	ng/g
PCB 39 (BZ)		ND		0.0100	0.000263	ng/g
PCB 40 (BZ)		ND		0.0100	0.000399	ng/g
PCB 41 (BZ)		ND		0.0100	0.000399	ng/g
PCB 42 (BZ)		ND		0.0100	0.000406	ng/g
PCB 43 (BZ)		ND		0.0100	0.000373	ng/g
PCB 44 (BZ)	0.01U	**0.00171**	**B C J**	**0.0100**	**0.000357**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000413	ng/g
PCB 46 (BZ)		ND		0.0100	0.000489	ng/g
PCB 47 (BZ)	0.01U	**0.00171**	**B C44 J**	**0.0100**	**0.000357**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000396	ng/g
PCB 49 (BZ)		ND		0.0100	0.000328	ng/g
PCB 50 (BZ)		ND		0.0100	0.000384	ng/g
PCB 51 (BZ)		ND		0.0100	0.000413	ng/g
PCB 52 (BZ)		**0.00127**	**Q J**	**0.0100**	**0.000384**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000384	ng/g
PCB 54 (BZ)		ND		0.0100	0.000441	ng/g
PCB 55 (BZ)		ND		0.0100	0.000309	ng/g
PCB 56 (BZ)		ND		0.0100	0.000291	ng/g
PCB 57 (BZ)		ND		0.0100	0.000294	ng/g
PCB 58 (BZ)		ND		0.0100	0.000293	ng/g
PCB 59 (BZ)		ND		0.0100	0.000284	ng/g
PCB 60 (BZ)		ND		0.0100	0.000299	ng/g
PCB 61 (BZ)	0.02U	**0.00157**	**B C J**	**0.0200**	**0.000284**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000284	ng/g
PCB 63 (BZ)		ND		0.0100	0.000273	ng/g
PCB 64 (BZ)		ND		0.0100	0.000269	ng/g
PCB 65 (BZ)	0.01U	**0.00171**	**B C44 J**	**0.0100**	**0.000357**	**ng/g**
PCB 66 (BZ)		ND		0.0100	0.000282	ng/g
PCB 67 (BZ)		ND		0.0100	0.000264	ng/g
PCB 68 (BZ)		ND		0.0100	0.000266	ng/g
PCB 69 (BZ)		ND		0.0100	0.000328	ng/g
PCB 70 (BZ)	0.02U	**0.00157**	**B C61 J**	**0.0200**	**0.000284**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000399	ng/g
PCB 72 (BZ)		ND		0.0100	0.000286	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA020620090002-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 003	**Work Order #....:**	LT35W1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0100	0.000373	ng/g
PCB 74 (BZ)	0.02U	**0.00157**	**B C61 J**	**0.0200**	**0.000284**	**ng/g**
PCB 75 (BZ)		ND		0.0100	0.000284	ng/g
PCB 76 (BZ)	0.02U	**0.00157**	**B C61 J**	**0.0200**	**0.000284**	**ng/g**
PCB 77 (BZ)		ND		0.0100	0.000275	ng/g
PCB 78 (BZ)		ND		0.0100	0.000304	ng/g
PCB 79 (BZ)		ND		0.0100	0.000267	ng/g
PCB 80 (BZ)		ND		0.0100	0.000260	ng/g
PCB 81 (BZ)		ND		0.0100	0.000276	ng/g
PCB 82 (BZ)		ND		0.0100	0.000504	ng/g
PCB 83 (BZ)		ND		0.0100	0.000424	ng/g
PCB 84 (BZ)		ND		0.0100	0.000482	ng/g
PCB 85 (BZ)		ND		0.0100	0.000349	ng/g
PCB 86 (BZ)		**0.00239**	**C J**	**0.0100**	**0.000357**	**ng/g**
PCB 87 (BZ)		**0.00239**	**C86 J**	**0.0100**	**0.000357**	**ng/g**
PCB 88 (BZ)		ND		0.0100	0.000429	ng/g
PCB 89 (BZ)		ND		0.0100	0.000466	ng/g
PCB 90 (BZ)		**0.00722**	**C J**	**0.0100**	**0.000363**	**ng/g**
PCB 91 (BZ)		ND		0.0100	0.000429	ng/g
PCB 92 (BZ)		ND		0.0100	0.000412	ng/g
PCB 93 (BZ)		ND		0.0100	0.000414	ng/g
PCB 94 (BZ)		ND		0.0100	0.000466	ng/g
PCB 95 (BZ)		**0.00492**	**J**	**0.0100**	**0.000439**	**ng/g**
PCB 96 (BZ)		ND		0.0100	0.000349	ng/g
PCB 97 (BZ)		**0.00239**	**C86 J**	**0.0100**	**0.000357**	**ng/g**
PCB 98 (BZ)		ND		0.0100	0.000401	ng/g
PCB 99 (BZ)		ND		0.0100	0.000424	ng/g
PCB 100 (BZ)		ND		0.0100	0.000414	ng/g
PCB 101 (BZ)		**0.00722**	**C90 J**	**0.0100**	**0.000363**	**ng/g**
PCB 102 (BZ)		ND		0.0100	0.000401	ng/g
PCB 103 (BZ)		ND		0.0100	0.000409	ng/g
PCB 104 (BZ)		ND		0.0100	0.000311	ng/g
PCB 105 (BZ)		ND		0.0100	0.000349	ng/g
PCB 106 (BZ)		ND		0.0100	0.000362	ng/g
PCB 107 (BZ)/109 (IUPAC)		ND		0.0100	0.000351	ng/g
PCB 108 (BZ)/107 (IUPAC)		ND		0.0100	0.000369	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA020620090002-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 003	**Work Order #....:**	LT35W1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	**0.00239**	**C86 J**	**0.0100**	**0.000357**	**ng/g**
PCB 110 (BZ)	**0.00513**	**Q C J**	**0.0100**	**0.000308**	**ng/g**
PCB 111 (BZ)	ND		0.0100	0.000292	ng/g
PCB 112 (BZ)	ND		0.0100	0.000317	ng/g
PCB 113 (BZ)	**0.00722**	**C90 J**	**0.0100**	**0.000363**	**ng/g**
PCB 114 (BZ)	ND		0.0100	0.000323	ng/g
PCB 115 (BZ)	**0.00513**	**Q C110 J**	**0.0100**	**0.000308**	**ng/g**
PCB 116 (BZ)	ND		0.0100	0.000349	ng/g
PCB 117 (BZ)	ND		0.0100	0.000349	ng/g
PCB 118 (BZ)	**0.00283**	**Q J**	**0.0100**	**0.000336**	**ng/g**
PCB 119 (BZ)	**0.00239**	**C86 J**	**0.0100**	**0.000357**	**ng/g**
PCB 120 (BZ)	ND		0.0100	0.000300	ng/g
PCB 121 (BZ)	ND		0.0100	0.000303	ng/g
PCB 122 (BZ)	ND		0.0100	0.000394	ng/g
PCB 123 (BZ)	ND		0.0100	0.000366	ng/g
PCB 124 (BZ)	ND		0.0100	0.000369	ng/g
PCB 125 (BZ)	**0.00239**	**C86 J**	**0.0100**	**0.000357**	**ng/g**
PCB 126 (BZ)	ND		0.0100	0.000362	ng/g
PCB 127 (BZ)	ND		0.0100	0.000358	ng/g
PCB 128 (BZ)	**0.00126**	**Q C J**	**0.0100**	**0.000608**	**ng/g**
PCB 129 (BZ)	**0.0287**	**C**	**0.0100**	**0.000629**	**ng/g**
PCB 130 (BZ)	ND		0.0100	0.000812	ng/g
PCB 131 (BZ)	ND		0.0100	0.000832	ng/g
PCB 132 (BZ)	**0.00814**	**J**	**0.0100**	**0.000792**	**ng/g**
PCB 133 (BZ)	ND		0.0100	0.000763	ng/g
PCB 134 (BZ)	**0.00108**	**Q C J**	**0.0100**	**0.000813**	**ng/g**
PCB 135 (BZ)	**0.0116**	**C**	**0.0100**	**0.000688**	**ng/g**
PCB 136 (BZ)	**0.00307**	**J**	**0.0100**	**0.000505**	**ng/g**
PCB 137 (BZ)	ND		0.0100	0.000701	ng/g
PCB 138 (BZ)	**0.0287**	**C129**	**0.0100**	**0.000629**	**ng/g**
PCB 139 (BZ)	ND		0.0100	0.000697	ng/g
PCB 140 (BZ)	ND		0.0100	0.000697	ng/g
PCB 141 (BZ)	**0.00633**	**J**	**0.0100**	**0.000725**	**ng/g**
PCB 142 (BZ)	ND		0.0100	0.000800	ng/g
PCB 143 (BZ)	**0.00108**	**Q C134 J**	**0.0100**	**0.000813**	**ng/g**
PCB 144 (BZ)	**0.00140**	**Q J**	**0.0100**	**0.000639**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA020620090002-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 003	**Work Order #....:**	LT35W1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0100	0.000483	ng/g
PCB 146 (BZ)	**0.00298**	**J**	**0.0100**	**0.000662**	**ng/g**
PCB 147 (BZ)	**0.0307**	**C**	**0.0100**	**0.000676**	**ng/g**
PCB 148 (BZ)	ND		0.0100	0.000676	ng/g
PCB 149 (BZ)	**0.0307**	**C147**	**0.0100**	**0.000676**	**ng/g**
PCB 150 (BZ)	ND		0.0100	0.000471	ng/g
PCB 151 (BZ)	**0.0116**	**C135**	**0.0100**	**0.000688**	**ng/g**
PCB 152 (BZ)	ND		0.0100	0.000480	ng/g
PCB 153 (BZ)	**0.0296**	**C**	**0.0100**	**0.000544**	**ng/g**
PCB 154 (BZ)	ND		0.0100	0.000560	ng/g
PCB 155 (BZ)	ND		0.0100	0.000458	ng/g
PCB 156 (BZ)	ND		0.0100	0.000674	ng/g
PCB 157 (BZ)	ND		0.0100	0.000674	ng/g
PCB 158 (BZ)	**0.00182**	**Q J**	**0.0100**	**0.000496**	**ng/g**
PCB 159 (BZ)	ND		0.0100	0.000532	ng/g
PCB 160 (BZ)	**0.0287**	**C129**	**0.0100**	**0.000629**	**ng/g**
PCB 161 (BZ)	ND		0.0100	0.000530	ng/g
PCB 162 (BZ)	ND		0.0100	0.000526	ng/g
PCB 163 (BZ)	**0.0287**	**C129**	**0.0100**	**0.000629**	**ng/g**
PCB 164 (BZ)	**0.00117**	**Q J**	**0.0100**	**0.000554**	**ng/g**
PCB 165 (BZ)	ND		0.0100	0.000582	ng/g
PCB 166 (BZ)	**0.00126**	**Q C128 J**	**0.0100**	**0.000608**	**ng/g**
PCB 167 (BZ)	ND		0.0100	0.000405	ng/g
PCB 168 (BZ)	**0.0296**	**C153**	**0.0100**	**0.000544**	**ng/g**
PCB 169 (BZ)	ND		0.0100	0.000393	ng/g
PCB 170 (BZ)	**0.00626**	**J**	**0.0100**	**0.000628**	**ng/g**
PCB 171 (BZ)	**0.00279**	**Q C J**	**0.0100**	**0.000601**	**ng/g**
PCB 172 (BZ)	ND		0.0100	0.000595	ng/g
PCB 173 (BZ)	**0.00279**	**Q C171 J**	**0.0100**	**0.000601**	**ng/g**
PCB 174 (BZ)	**0.0110**		**0.0100**	**0.000557**	**ng/g**
PCB 175 (BZ)	ND		0.0100	0.000535	ng/g
PCB 176 (BZ)	**0.00172**	**J**	**0.0100**	**0.000408**	**ng/g**
PCB 177 (BZ)	**0.00579**	**J**	**0.0100**	**0.000571**	**ng/g**
PCB 178 (BZ)	**0.00198**	**J**	**0.0100**	**0.000578**	**ng/g**
PCB 179 (BZ)	**0.00686**	**J**	**0.0100**	**0.000430**	**ng/g**
PCB 180 (BZ)	**0.0187**	**C**	**0.0100**	**0.000454**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA020620090002-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 003	**Work Order #....:**	LT35W1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000535	ng/g
PCB 182 (BZ)	ND		0.0100	0.000520	ng/g
PCB 183 (BZ)	**0.00721**	**C J**	**0.0100**	**0.000531**	**ng/g**
PCB 184 (BZ)	ND		0.0100	0.000441	ng/g
PCB 185 (BZ)	**0.00721**	**C183 J**	**0.0100**	**0.000531**	**ng/g**
PCB 186 (BZ)	ND		0.0100	0.000428	ng/g
PCB 187 (BZ)	**0.0135**		**0.0100**	**0.000497**	**ng/g**
PCB 188 (BZ)	ND		0.0100	0.000380	ng/g
PCB 189 (BZ)	ND		0.0100	0.000418	ng/g
PCB 190 (BZ)	**0.000871**	**Q J**	**0.0100**	**0.000414**	**ng/g**
PCB 191 (BZ)	ND		0.0100	0.000407	ng/g
PCB 192 (BZ)	ND		0.0100	0.000455	ng/g
PCB 193 (BZ)	**0.0187**	**C180**	**0.0100**	**0.000454**	**ng/g**
PCB 194 (BZ)	**0.00162**	**Q J**	**0.0100**	**0.000405**	**ng/g**
PCB 195 (BZ)	**0.000860**	**Q J**	**0.0100**	**0.000440**	**ng/g**
PCB 196 (BZ)	**0.00100**	**Q J**	**0.0100**	**0.000475**	**ng/g**
PCB 197 (BZ)	ND		0.0100	0.000354	ng/g
PCB 198 (BZ)	**0.00319**	**C J**	**0.0100**	**0.000491**	**ng/g**
PCB 201 (BZ)/199 (IUPAC)	**0.00319**	**C198 J**	**0.0100**	**0.000491**	**ng/g**
PCB 199 (BZ)/200 (IUPAC)	ND		0.0100	0.000347	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND		0.0100	0.000335	ng/g
PCB 202 (BZ)	**0.000822**	**J**	**0.0100**	**0.000378**	**ng/g**
PCB 203 (BZ)	**0.00116**	**Q J**	**0.0100**	**0.000438**	**ng/g**
PCB 204 (BZ)	ND		0.0100	0.000368	ng/g
PCB 205 (BZ)	ND		0.0100	0.000341	ng/g
PCB 206 (BZ)	ND		0.0100	0.000396	ng/g
PCB 207 (BZ)	ND		0.0100	0.000292	ng/g
PCB 208 (BZ)	ND		0.0100	0.000311	ng/g
PCB 209 (BZ)	ND		0.0100	0.000353	ng/g

RJ Lee Group Inc.

Sample ID: WA020620090002-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 003	**Work Order #....:**	LT35W1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	63		30 - 140
13C12-PCB 3	58		30 - 140
13C12-PCB 4	76		30 - 140
13C12-PCB 15	73		30 - 140
13C12-PCB 19	75		30 - 140
13C12-PCB 37	76		30 - 140
13C12-PCB 54	74		30 - 140
13C12-PCB 77	73		30 - 140
13C12-PCB 81	73		30 - 140
13C12-PCB 104	80		30 - 140
13C12-PCB 105	79		30 - 140
13C12-PCB 114	81		30 - 140
13C12-PCB 118	78		30 - 140
13C12-PCB 123	78		30 - 140
13C12-PCB 126	80		30 - 140
13C12-PCB 155	90		30 - 140
13C12-PCB 156	80	C	30 - 140
13C12-PCB 157	80	C	30 - 140
13C12-PCB 167	78		30 - 140
13C12-PCB 169	79		30 - 140
13C12-PCB 170	88		30 - 140
13C12-PCB 188	92		30 - 140
13C12-PCB 189	78		30 - 140
13C12-PCB 202	104		30 - 140
13C12-PCB 205	91		30 - 140
13C12-PCB 206	99		30 - 140
13C12-PCB 208	93		30 - 140
13C12-PCB 209	96		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	78	40 - 125
13C12-PCB 111	82	40 - 125
13C12-PCB 178	81	40 - 125

RJ Lee Group Inc.

Sample ID: WA020620090002-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 003	**Work Order #....:**	LT35W1AA	**Matrix....:**	SOLID
Date Sampled....:	05/21/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA110620090003-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 004	Work Order #....:	LT3501AA	Matrix....:	SOLID
Date Sampled....:	06/03/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.0000706	ng/g
PCB 2 (BZ)		ND		0.0100	0.0000860	ng/g
PCB 3 (BZ)		ND		0.0100	0.000108	ng/g
PCB 4 (BZ)		ND		0.0200	0.00156	ng/g
PCB 5 (BZ)		ND		0.0100	0.00133	ng/g
PCB 6 (BZ)		ND		0.0100	0.00125	ng/g
PCB 7 (BZ)		ND		0.0100	0.00128	ng/g
PCB 8 (BZ)		**0.00125**	**Q B J**	**0.0200**	**0.00122**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00129	ng/g
PCB 10 (BZ)		ND		0.0100	0.00139	ng/g
PCB 11 (BZ)	0.02U	**0.00299**	**Q B J**	**0.0200**	**0.00123**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00126	ng/g
PCB 13 (BZ)		ND		0.0100	0.00126	ng/g
PCB 14 (BZ)		ND		0.0100	0.00109	ng/g
PCB 15 (BZ)		**0.000573**	**Q J**	**0.0100**	**0.00140**	**ng/g**
PCB 16 (BZ)		ND		0.0100	0.000444	ng/g
PCB 17 (BZ)		ND		0.0100	0.000370	ng/g
PCB 18 (BZ)		**0.00103**	**Q C J**	**0.0200**	**0.000328**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000454	ng/g
PCB 20 (BZ)	0.02U	**0.00145**	**Q B C J**	**0.0200**	**0.000247**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000836**	**Q B C J**	**0.0100**	**0.000247**	**ng/g**
PCB 22 (BZ)		ND		0.0100	0.000251	ng/g
PCB 23 (BZ)		ND		0.0100	0.000256	ng/g
PCB 24 (BZ)		ND		0.0100	0.000310	ng/g
PCB 25 (BZ)		ND		0.0100	0.000229	ng/g
PCB 26 (BZ)		ND		0.0100	0.000243	ng/g
PCB 27 (BZ)		ND		0.0100	0.000268	ng/g
PCB 28 (BZ)	0.02U	**0.00145**	**Q B C20 J**	**0.0200**	**0.000247**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000243	ng/g
PCB 30 (BZ)		**0.00103**	**Q C18 J**	**0.0200**	**0.000328**	**ng/g**
PCB 31 (BZ)	0.02U	**0.000955**	**Q B J**	**0.0200**	**0.000241**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000262	ng/g
PCB 33 (BZ)	0.01U	**0.000836**	**Q B C21 J**	**0.0100**	**0.000247**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000252	ng/g
PCB 35 (BZ)		ND		0.0100	0.000259	ng/g
PCB 36 (BZ)		ND		0.0100	0.000251	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110620090003-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 004	**Work Order #....:**	LT3501AA	**Matrix....:**	SOLID
Date Sampled....:	06/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)	ND		0.0100	0.000257	ng/g
PCB 38 (BZ)	ND		0.0100	0.000264	ng/g
PCB 39 (BZ)	ND		0.0100	0.000235	ng/g
PCB 40 (BZ)	**0.000939**	**Q C J**	**0.0100**	**0.000407**	**ng/g**
PCB 41 (BZ)	**0.000939**	**Q C40 J**	**0.0100**	**0.000407**	**ng/g**
PCB 42 (BZ)	**0.000880**	**J**	**0.0100**	**0.000414**	**ng/g**
PCB 43 (BZ)	ND		0.0100	0.000380	ng/g
PCB 44 (BZ)	**0.00679**	**Q B C J**	**0.0100**	**0.000364**	**ng/g**
PCB 45 (BZ)	ND		0.0100	0.000421	ng/g
PCB 46 (BZ)	ND		0.0100	0.000498	ng/g
PCB 47 (BZ)	**0.00679**	**Q B C44 J**	**0.0100**	**0.000364**	**ng/g**
PCB 48 (BZ)	ND		0.0100	0.000403	ng/g
PCB 49 (BZ)	**0.00360**	**C J**	**0.0100**	**0.000335**	**ng/g**
PCB 50 (BZ)	ND		0.0100	0.000391	ng/g
PCB 51 (BZ)	ND		0.0100	0.000421	ng/g
PCB 52 (BZ)	**0.0209**		**0.0100**	**0.000392**	**ng/g**
PCB 53 (BZ)	ND		0.0100	0.000391	ng/g
PCB 54 (BZ)	ND		0.0100	0.000441	ng/g
PCB 55 (BZ)	ND		0.0100	0.000315	ng/g
PCB 56 (BZ)	**0.00106**	**J**	**0.0100**	**0.000296**	**ng/g**
PCB 57 (BZ)	ND		0.0100	0.000300	ng/g
PCB 58 (BZ)	ND		0.0100	0.000298	ng/g
PCB 59 (BZ)	ND		0.0100	0.000289	ng/g
PCB 60 (BZ)	**0.000484**	**Q J**	**0.0100**	**0.000305**	**ng/g**
PCB 61 (BZ)	**0.0171**	**B C J**	**0.0200**	**0.000289**	**ng/g**
PCB 62 (BZ)	ND		0.0100	0.000289	ng/g
PCB 63 (BZ)	ND		0.0100	0.000278	ng/g
PCB 64 (BZ)	**0.00203**	**J**	**0.0100**	**0.000274**	**ng/g**
PCB 65 (BZ)	**0.00679**	**Q B C44 J**	**0.0100**	**0.000364**	**ng/g**
PCB 66 (BZ)	**0.00359**	**B J**	**0.0100**	**0.000287**	**ng/g**
PCB 67 (BZ)	ND		0.0100	0.000270	ng/g
PCB 68 (BZ)	ND		0.0100	0.000272	ng/g
PCB 69 (BZ)	**0.00360**	**C49 J**	**0.0100**	**0.000335**	**ng/g**
PCB 70 (BZ)	**0.0171**	**B C61 J**	**0.0200**	**0.000289**	**ng/g**
PCB 71 (BZ)	**0.000939**	**Q C40 J**	**0.0100**	**0.000407**	**ng/g**
PCB 72 (BZ)	ND		0.0100	0.000292	ng/g

RJ Lee Group Inc.

Sample ID: WA110620090003-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 004	**Work Order #....:**	LT3501AA	**Matrix....:**	SOLID
Date Sampled....:	06/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0100	0.000380	ng/g
PCB 74 (BZ)	0.02U	**0.0171**	**B C61 J**	**0.0200**	**0.000289**	**ng/g**
PCB 75 (BZ)		ND		0.0100	0.000289	ng/g
PCB 76 (BZ)	0.02U	**0.0171**	**B C61 J**	**0.0200**	**0.000289**	**ng/g**
PCB 77 (BZ)		ND		0.0100	0.000283	ng/g
PCB 78 (BZ)		ND		0.0100	0.000310	ng/g
PCB 79 (BZ)		ND		0.0100	0.000272	ng/g
PCB 80 (BZ)		ND		0.0100	0.000266	ng/g
PCB 81 (BZ)		ND		0.0100	0.000279	ng/g
PCB 82 (BZ)		**0.00259**	**Q J**	**0.0100**	**0.000575**	**ng/g**
PCB 83 (BZ)		**0.0153**	**C**	**0.0100**	**0.000483**	**ng/g**
PCB 84 (BZ)		**0.00769**	**J**	**0.0100**	**0.000550**	**ng/g**
PCB 85 (BZ)		**0.00447**	**C J**	**0.0100**	**0.000398**	**ng/g**
PCB 86 (BZ)		**0.0213**	**C**	**0.0100**	**0.000407**	**ng/g**
PCB 87 (BZ)		**0.0213**	**C86**	**0.0100**	**0.000407**	**ng/g**
PCB 88 (BZ)		**0.00272**	**Q C J**	**0.0100**	**0.000490**	**ng/g**
PCB 89 (BZ)		ND		0.0100	0.000532	ng/g
PCB 90 (BZ)		**0.0318**	**C**	**0.0100**	**0.000415**	**ng/g**
PCB 91 (BZ)		**0.00272**	**Q C88 J**	**0.0100**	**0.000490**	**ng/g**
PCB 92 (BZ)		**0.00337**	**Q J**	**0.0100**	**0.000471**	**ng/g**
PCB 93 (BZ)		ND		0.0100	0.000472	ng/g
PCB 94 (BZ)		ND		0.0100	0.000532	ng/g
PCB 95 (BZ)		**0.0257**		**0.0100**	**0.000501**	**ng/g**
PCB 96 (BZ)		ND		0.0100	0.000398	ng/g
PCB 97 (BZ)		**0.0213**	**C86**	**0.0100**	**0.000407**	**ng/g**
PCB 98 (BZ)		ND		0.0100	0.000458	ng/g
PCB 99 (BZ)		**0.0153**	**C83**	**0.0100**	**0.000483**	**ng/g**
PCB 100 (BZ)		ND		0.0100	0.000472	ng/g
PCB 101 (BZ)		**0.0318**	**C90**	**0.0100**	**0.000415**	**ng/g**
PCB 102 (BZ)		ND		0.0100	0.000458	ng/g
PCB 103 (BZ)		ND		0.0100	0.000466	ng/g
PCB 104 (BZ)		ND		0.0100	0.000354	ng/g
PCB 105 (BZ)		**0.0120**		**0.0100**	**0.000384**	**ng/g**
PCB 106 (BZ)		ND		0.0100	0.000407	ng/g
PCB 107 (BZ)/109 (IUPAC)		**0.00111**	**Q J**	**0.0100**	**0.000395**	**ng/g**
PCB 108 (BZ)/107 (IUPAC)		ND		0.0100	0.000415	ng/g

RJ Lee Group Inc.

Sample ID: WA110620090003-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 004	**Work Order #....:**	LT3501AA	**Matrix....:**	SOLID
Date Sampled....:	06/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	**0.0213**	**C86**	**0.0100**	**0.000407**	**ng/g**
PCB 110 (BZ)	**0.0409**	**C**	**0.0100**	**0.000352**	**ng/g**
PCB 111 (BZ)	ND		0.0100	0.000333	ng/g
PCB 112 (BZ)	ND		0.0100	0.000362	ng/g
PCB 113 (BZ)	**0.0318**	**C90**	**0.0100**	**0.000415**	**ng/g**
PCB 114 (BZ)	ND		0.0100	0.000368	ng/g
PCB 115 (BZ)	**0.0409**	**C110**	**0.0100**	**0.000352**	**ng/g**
PCB 116 (BZ)	**0.00447**	**C85 J**	**0.0100**	**0.000398**	**ng/g**
PCB 117 (BZ)	**0.00447**	**C85 J**	**0.0100**	**0.000398**	**ng/g**
PCB 118 (BZ)	**0.0321**		**0.0100**	**0.000393**	**ng/g**
PCB 119 (BZ)	**0.0213**	**C86**	**0.0100**	**0.000407**	**ng/g**
PCB 120 (BZ)	ND		0.0100	0.000343	ng/g
PCB 121 (BZ)	ND		0.0100	0.000345	ng/g
PCB 122 (BZ)	ND		0.0100	0.000443	ng/g
PCB 123 (BZ)	ND		0.0100	0.000405	ng/g
PCB 124 (BZ)	ND		0.0100	0.000415	ng/g
PCB 125 (BZ)	**0.0213**	**C86**	**0.0100**	**0.000407**	**ng/g**
PCB 126 (BZ)	ND		0.0100	0.000403	ng/g
PCB 127 (BZ)	ND		0.0100	0.000402	ng/g
PCB 128 (BZ)	**0.00717**	**C J**	**0.0100**	**0.000501**	**ng/g**
PCB 129 (BZ)	**0.0461**	**C**	**0.0100**	**0.000518**	**ng/g**
PCB 130 (BZ)	**0.00155**	**Q J**	**0.0100**	**0.000669**	**ng/g**
PCB 131 (BZ)	ND		0.0100	0.000685	ng/g
PCB 132 (BZ)	**0.0120**		**0.0100**	**0.000652**	**ng/g**
PCB 133 (BZ)	ND		0.0100	0.000628	ng/g
PCB 134 (BZ)	**0.00146**	**C J**	**0.0100**	**0.000669**	**ng/g**
PCB 135 (BZ)	**0.0105**	**C**	**0.0100**	**0.000563**	**ng/g**
PCB 136 (BZ)	**0.00352**	**J**	**0.0100**	**0.000414**	**ng/g**
PCB 137 (BZ)	**0.00166**	**J**	**0.0100**	**0.000577**	**ng/g**
PCB 138 (BZ)	**0.0461**	**C129**	**0.0100**	**0.000518**	**ng/g**
PCB 139 (BZ)	ND		0.0100	0.000573	ng/g
PCB 140 (BZ)	ND		0.0100	0.000573	ng/g
PCB 141 (BZ)	**0.00463**	**Q J**	**0.0100**	**0.000597**	**ng/g**
PCB 142 (BZ)	ND		0.0100	0.000659	ng/g
PCB 143 (BZ)	**0.00146**	**C134 J**	**0.0100**	**0.000669**	**ng/g**
PCB 144 (BZ)	ND		0.0100	0.000523	ng/g

RJ Lee Group Inc.

Sample ID: WA110620090003-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 004	**Work Order #....:**	LT3501AA	**Matrix....:**	SOLID
Date Sampled....:	06/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0100	0.000396	ng/g
PCB 146 (BZ)	**0.00392**	**J**	**0.0100**	**0.000545**	**ng/g**
PCB 147 (BZ)	**0.0264**	**C**	**0.0100**	**0.000557**	**ng/g**
PCB 148 (BZ)	ND		0.0100	0.000553	ng/g
PCB 149 (BZ)	**0.0264**	**C147**	**0.0100**	**0.000557**	**ng/g**
PCB 150 (BZ)	ND		0.0100	0.000386	ng/g
PCB 151 (BZ)	**0.0105**	**C135**	**0.0100**	**0.000563**	**ng/g**
PCB 152 (BZ)	ND		0.0100	0.000393	ng/g
PCB 153 (BZ)	**0.0256**	**C**	**0.0100**	**0.000448**	**ng/g**
PCB 154 (BZ)	ND		0.0100	0.000458	ng/g
PCB 155 (BZ)	ND		0.0100	0.000375	ng/g
PCB 156 (BZ)	**0.00342**	**C J**	**0.0100**	**0.000555**	**ng/g**
PCB 157 (BZ)	**0.00342**	**C156 J**	**0.0100**	**0.000555**	**ng/g**
PCB 158 (BZ)	**0.00427**	**J**	**0.0100**	**0.000409**	**ng/g**
PCB 159 (BZ)	ND		0.0100	0.000438	ng/g
PCB 160 (BZ)	**0.0461**	**C129**	**0.0100**	**0.000518**	**ng/g**
PCB 161 (BZ)	ND		0.0100	0.000436	ng/g
PCB 162 (BZ)	ND		0.0100	0.000433	ng/g
PCB 163 (BZ)	**0.0461**	**C129**	**0.0100**	**0.000518**	**ng/g**
PCB 164 (BZ)	**0.00270**	**J**	**0.0100**	**0.000456**	**ng/g**
PCB 165 (BZ)	ND		0.0100	0.000479	ng/g
PCB 166 (BZ)	**0.00717**	**C128 J**	**0.0100**	**0.000501**	**ng/g**
PCB 167 (BZ)	**0.000890**	**Q J**	**0.0100**	**0.000330**	**ng/g**
PCB 168 (BZ)	**0.0256**	**C153**	**0.0100**	**0.000448**	**ng/g**
PCB 169 (BZ)	ND		0.0100	0.000327	ng/g
PCB 170 (BZ)	**0.0112**		**0.0100**	**0.000512**	**ng/g**
PCB 171 (BZ)	**0.00263**	**Q C J**	**0.0100**	**0.000483**	**ng/g**
PCB 172 (BZ)	**0.00147**	**J**	**0.0100**	**0.000478**	**ng/g**
PCB 173 (BZ)	**0.00263**	**Q C171 J**	**0.0100**	**0.000483**	**ng/g**
PCB 174 (BZ)	**0.00921**	**J**	**0.0100**	**0.000447**	**ng/g**
PCB 175 (BZ)	ND		0.0100	0.000430	ng/g
PCB 176 (BZ)	**0.00120**	**J**	**0.0100**	**0.000327**	**ng/g**
PCB 177 (BZ)	**0.00471**	**J**	**0.0100**	**0.000458**	**ng/g**
PCB 178 (BZ)	ND		0.0100	0.000464	ng/g
PCB 179 (BZ)	**0.00349**	**J**	**0.0100**	**0.000345**	**ng/g**
PCB 180 (BZ)	**0.0256**	**C**	**0.0100**	**0.000365**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA110620090003-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 004	**Work Order #....:**	LT3501AA	**Matrix....:**	SOLID
Date Sampled....:	06/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000429	ng/g
PCB 182 (BZ)	ND		0.0100	0.000417	ng/g
PCB 183 (BZ)	**0.00628**	**Q C J**	**0.0100**	**0.000426**	**ng/g**
PCB 184 (BZ)	ND		0.0100	0.000354	ng/g
PCB 185 (BZ)	**0.00628**	**Q C183 J**	**0.0100**	**0.000426**	**ng/g**
PCB 186 (BZ)	ND		0.0100	0.000344	ng/g
PCB 187 (BZ)	**0.0117**		**0.0100**	**0.000399**	**ng/g**
PCB 188 (BZ)	ND		0.0100	0.000302	ng/g
PCB 189 (BZ)	ND		0.0100	0.000341	ng/g
PCB 190 (BZ)	**0.00133**	**Q J**	**0.0100**	**0.000333**	**ng/g**
PCB 191 (BZ)	ND		0.0100	0.000327	ng/g
PCB 192 (BZ)	ND		0.0100	0.000365	ng/g
PCB 193 (BZ)	**0.0256**	**C180**	**0.0100**	**0.000365**	**ng/g**
PCB 194 (BZ)	**0.00301**	**J**	**0.0100**	**0.000335**	**ng/g**
PCB 195 (BZ)	**0.00102**	**Q J**	**0.0100**	**0.000364**	**ng/g**
PCB 196 (BZ)	**0.00163**	**J**	**0.0100**	**0.000410**	**ng/g**
PCB 197 (BZ)	ND		0.0100	0.000305	ng/g
PCB 198 (BZ)	**0.00376**	**C J**	**0.0100**	**0.000423**	**ng/g**
PCB 201 (BZ)/199 (IUPAC)	**0.00376**	**C198 J**	**0.0100**	**0.000423**	**ng/g**
PCB 199 (BZ)/200 (IUPAC)	ND		0.0100	0.000299	ng/g
PCB 200 (BZ)/201 (IUPAC)	**0.000446**	**J**	**0.0100**	**0.000289**	**ng/g**
PCB 202 (BZ)	**0.000657**	**Q J**	**0.0100**	**0.000326**	**ng/g**
PCB 203 (BZ)	**0.00216**	**J**	**0.0100**	**0.000378**	**ng/g**
PCB 204 (BZ)	ND		0.0100	0.000317	ng/g
PCB 205 (BZ)	ND		0.0100	0.000282	ng/g
PCB 206 (BZ)	**0.00110**	**Q J**	**0.0100**	**0.000325**	**ng/g**
PCB 207 (BZ)	ND		0.0100	0.000245	ng/g
PCB 208 (BZ)	**0.000538**	**J**	**0.0100**	**0.000266**	**ng/g**
PCB 209 (BZ)	**0.00144**	**Q J**	**0.0100**	**0.000336**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA110620090003-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 004	**Work Order #....:**	LT3501AA	**Matrix....:**	SOLID
Date Sampled....:	06/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	70		30 - 140
13C12-PCB 3	61		30 - 140
13C12-PCB 4	80		30 - 140
13C12-PCB 15	76		30 - 140
13C12-PCB 19	76		30 - 140
13C12-PCB 37	80		30 - 140
13C12-PCB 54	76		30 - 140
13C12-PCB 77	77		30 - 140
13C12-PCB 81	77		30 - 140
13C12-PCB 104	82		30 - 140
13C12-PCB 105	81		30 - 140
13C12-PCB 114	84		30 - 140
13C12-PCB 118	78		30 - 140
13C12-PCB 123	79		30 - 140
13C12-PCB 126	84		30 - 140
13C12-PCB 155	95		30 - 140
13C12-PCB 156	84	C	30 - 140
13C12-PCB 157	84	C	30 - 140
13C12-PCB 167	81		30 - 140
13C12-PCB 169	82		30 - 140
13C12-PCB 170	90		30 - 140
13C12-PCB 188	98		30 - 140
13C12-PCB 189	83		30 - 140
13C12-PCB 202	108		30 - 140
13C12-PCB 205	95		30 - 140
13C12-PCB 206	104		30 - 140
13C12-PCB 208	96		30 - 140
13C12-PCB 209	99		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	82	40 - 125
13C12-PCB 111	87	40 - 125
13C12-PCB 178	85	40 - 125

RJ Lee Group Inc.

Sample ID: WA110620090003-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 004	**Work Order #....:**	LT3501AA	**Matrix....:**	SOLID
Date Sampled....:	06/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA110620090003-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 005	**Work Order #....:**	LT3511AA	**Matrix....:**	SOLID
Date Sampled....:	06/04/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000114	ng/g
PCB 2 (BZ)		ND		0.0100	0.000135	ng/g
PCB 3 (BZ)		ND		0.0100	0.000163	ng/g
PCB 4 (BZ)		ND		0.0200	0.00243	ng/g
PCB 5 (BZ)		ND		0.0100	0.00211	ng/g
PCB 6 (BZ)		ND		0.0100	0.00198	ng/g
PCB 7 (BZ)		ND		0.0100	0.00204	ng/g
PCB 8 (BZ)		**0.00118**	**Q B J**	**0.0200**	**0.00194**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00204	ng/g
PCB 10 (BZ)		ND		0.0100	0.00220	ng/g
PCB 11 (BZ)	0.02U	**0.00271**	**Q B J**	**0.0200**	**0.00195**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00200	ng/g
PCB 13 (BZ)		ND		0.0100	0.00200	ng/g
PCB 14 (BZ)		ND		0.0100	0.00172	ng/g
PCB 15 (BZ)		ND		0.0100	0.00225	ng/g
PCB 16 (BZ)		ND		0.0100	0.000600	ng/g
PCB 17 (BZ)		ND		0.0100	0.000500	ng/g
PCB 18 (BZ)		**0.00135**	**Q C J**	**0.0200**	**0.000443**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000613	ng/g
PCB 20 (BZ)	0.02U	**0.00103**	**Q B C J**	**0.0200**	**0.000350**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000676**	**Q B C J**	**0.0100**	**0.000351**	**ng/g**
PCB 22 (BZ)		ND		0.0100	0.000357	ng/g
PCB 23 (BZ)		ND		0.0100	0.000364	ng/g
PCB 24 (BZ)		ND		0.0100	0.000419	ng/g
PCB 25 (BZ)		ND		0.0100	0.000325	ng/g
PCB 26 (BZ)		ND		0.0100	0.000345	ng/g
PCB 27 (BZ)		ND		0.0100	0.000362	ng/g
PCB 28 (BZ)	0.02U	**0.00103**	**Q B C20 J**	**0.0200**	**0.000350**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000345	ng/g
PCB 30 (BZ)		**0.00135**	**Q C18 J**	**0.0200**	**0.000443**	**ng/g**
PCB 31 (BZ)	0.02U	**0.00126**	**B J**	**0.0200**	**0.000342**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000355	ng/g
PCB 33 (BZ)	0.01U	**0.000676**	**Q B C21 J**	**0.0100**	**0.000351**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000358	ng/g
PCB 35 (BZ)		ND		0.0100	0.000368	ng/g
PCB 36 (BZ)		ND		0.0100	0.000356	ng/g

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9-13-2010

RJ Lee Group Inc.

Sample ID: WA110620090003-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 005	Work Order #....:	LT3511AA	Matrix....:	SOLID
Date Sampled....:	06/04/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000365	ng/g
PCB 38 (BZ)		ND		0.0100	0.000376	ng/g
PCB 39 (BZ)		ND		0.0100	0.000334	ng/g
PCB 40 (BZ)		ND		0.0100	0.000386	ng/g
PCB 41 (BZ)		ND		0.0100	0.000386	ng/g
PCB 42 (BZ)		ND		0.0100	0.000393	ng/g
PCB 43 (BZ)		ND		0.0100	0.000361	ng/g
PCB 44 (BZ)	0.01U	**0.00119**	**Q B C J**	**0.0100**	**0.000345**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000400	ng/g
PCB 46 (BZ)		ND		0.0100	0.000473	ng/g
PCB 47 (BZ)	0.01U	**0.00119**	**Q B C44 J**	**0.0100**	**0.000345**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000383	ng/g
PCB 49 (BZ)		ND		0.0100	0.000318	ng/g
PCB 50 (BZ)		ND		0.0100	0.000372	ng/g
PCB 51 (BZ)		ND		0.0100	0.000400	ng/g
PCB 52 (BZ)		**0.000852**	**J**	**0.0100**	**0.000372**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000372	ng/g
PCB 54 (BZ)		ND		0.0100	0.000424	ng/g
PCB 55 (BZ)		ND		0.0100	0.000299	ng/g
PCB 56 (BZ)		ND		0.0100	0.000281	ng/g
PCB 57 (BZ)		ND		0.0100	0.000285	ng/g
PCB 58 (BZ)		ND		0.0100	0.000283	ng/g
PCB 59 (BZ)		ND		0.0100	0.000275	ng/g
PCB 60 (BZ)		ND		0.0100	0.000290	ng/g
PCB 61 (BZ)	0.02U	**0.00115**	**B C J**	**0.0200**	**0.000275**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000275	ng/g
PCB 63 (BZ)		ND		0.0100	0.000264	ng/g
PCB 64 (BZ)		ND		0.0100	0.000260	ng/g
PCB 65 (BZ)	0.01U	**0.00119**	**Q B C44 J**	**0.0100**	**0.000345**	**ng/g**
PCB 66 (BZ)		ND		0.0100	0.000273	ng/g
PCB 67 (BZ)		ND		0.0100	0.000256	ng/g
PCB 68 (BZ)		ND		0.0100	0.000258	ng/g
PCB 69 (BZ)		ND		0.0100	0.000318	ng/g
PCB 70 (BZ)	0.02U	**0.00115**	**B C61 J**	**0.0200**	**0.000275**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000386	ng/g
PCB 72 (BZ)		ND		0.0100	0.000277	ng/g

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9-13-2010

RJ Lee Group Inc.

Sample ID: WA110620090003-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 005	**Work Order #....:**	LT3511AA	**Matrix....:**	SOLID
Date Sampled....:	06/04/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0100	0.000361	ng/g
PCB 74 (BZ)	0.02U	**0.00115**	**B C61 J**	**0.0200**	**0.000275**	**ng/g**
PCB 75 (BZ)		ND		0.0100	0.000275	ng/g
PCB 76 (BZ)	0.02U	**0.00115**	**B C61 J**	**0.0200**	**0.000275**	**ng/g**
PCB 77 (BZ)		ND		0.0100	0.000270	ng/g
PCB 78 (BZ)		ND		0.0100	0.000294	ng/g
PCB 79 (BZ)		ND		0.0100	0.000258	ng/g
PCB 80 (BZ)		ND		0.0100	0.000252	ng/g
PCB 81 (BZ)		ND		0.0100	0.000264	ng/g
PCB 82 (BZ)		ND		0.0100	0.000379	ng/g
PCB 83 (BZ)		ND		0.0100	0.000318	ng/g
PCB 84 (BZ)		ND		0.0100	0.000362	ng/g
PCB 85 (BZ)		ND		0.0100	0.000262	ng/g
PCB 86 (BZ)		ND		0.0100	0.000268	ng/g
PCB 87 (BZ)		ND		0.0100	0.000268	ng/g
PCB 88 (BZ)		ND		0.0100	0.000322	ng/g
PCB 89 (BZ)		ND		0.0100	0.000350	ng/g
PCB 90 (BZ)		**0.000639**	**Q C J**	**0.0100**	**0.000273**	**ng/g**
PCB 91 (BZ)		ND		0.0100	0.000322	ng/g
PCB 92 (BZ)		ND		0.0100	0.000310	ng/g
PCB 93 (BZ)		ND		0.0100	0.000311	ng/g
PCB 94 (BZ)		ND		0.0100	0.000350	ng/g
PCB 95 (BZ)		ND		0.0100	0.000330	ng/g
PCB 96 (BZ)		ND		0.0100	0.000262	ng/g
PCB 97 (BZ)		ND		0.0100	0.000268	ng/g
PCB 98 (BZ)		ND		0.0100	0.000301	ng/g
PCB 99 (BZ)		ND		0.0100	0.000318	ng/g
PCB 100 (BZ)		ND		0.0100	0.000311	ng/g
PCB 101 (BZ)		**0.000639**	**Q C90 J**	**0.0100**	**0.000273**	**ng/g**
PCB 102 (BZ)		ND		0.0100	0.000301	ng/g
PCB 103 (BZ)		ND		0.0100	0.000307	ng/g
PCB 104 (BZ)		ND		0.0100	0.000233	ng/g
PCB 105 (BZ)		ND		0.0100	0.000267	ng/g
PCB 106 (BZ)		ND		0.0100	0.000277	ng/g
PCB 107 (BZ)/109 (IUPAC)		ND		0.0100	0.000269	ng/g
PCB 108 (BZ)/107 (IUPAC)		ND		0.0100	0.000283	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110620090003-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 005	**Work Order #....:**	LT3511AA	**Matrix....:**	SOLID
Date Sampled....:	06/04/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	ND		0.0100	0.000268	ng/g
PCB 110 (BZ)	**0.000476**	**Q C J**	**0.0100**	**0.000231**	**ng/g**
PCB 111 (BZ)	ND		0.0100	0.000219	ng/g
PCB 112 (BZ)	ND		0.0100	0.000238	ng/g
PCB 113 (BZ)	**0.000639**	**Q C90 J**	**0.0100**	**0.000273**	**ng/g**
PCB 114 (BZ)	ND		0.0100	0.000250	ng/g
PCB 115 (BZ)	**0.000476**	**Q C110 J**	**0.0100**	**0.000231**	**ng/g**
PCB 116 (BZ)	ND		0.0100	0.000262	ng/g
PCB 117 (BZ)	ND		0.0100	0.000262	ng/g
PCB 118 (BZ)	**0.000594**	**Q J**	**0.0100**	**0.000262**	**ng/g**
PCB 119 (BZ)	ND		0.0100	0.000268	ng/g
PCB 120 (BZ)	ND		0.0100	0.000226	ng/g
PCB 121 (BZ)	ND		0.0100	0.000227	ng/g
PCB 122 (BZ)	ND		0.0100	0.000302	ng/g
PCB 123 (BZ)	ND		0.0100	0.000284	ng/g
PCB 124 (BZ)	ND		0.0100	0.000283	ng/g
PCB 125 (BZ)	ND		0.0100	0.000268	ng/g
PCB 126 (BZ)	ND		0.0100	0.000268	ng/g
PCB 127 (BZ)	ND		0.0100	0.000274	ng/g
PCB 128 (BZ)	ND		0.0100	0.000396	ng/g
PCB 129 (BZ)	**0.00136**	**Q C J**	**0.0100**	**0.000409**	**ng/g**
PCB 130 (BZ)	ND		0.0100	0.000528	ng/g
PCB 131 (BZ)	ND		0.0100	0.000541	ng/g
PCB 132 (BZ)	ND		0.0100	0.000515	ng/g
PCB 133 (BZ)	ND		0.0100	0.000497	ng/g
PCB 134 (BZ)	ND		0.0100	0.000529	ng/g
PCB 135 (BZ)	ND		0.0100	0.000414	ng/g
PCB 136 (BZ)	ND		0.0100	0.000304	ng/g
PCB 137 (BZ)	ND		0.0100	0.000456	ng/g
PCB 138 (BZ)	**0.00136**	**Q C129 J**	**0.0100**	**0.000409**	**ng/g**
PCB 139 (BZ)	ND		0.0100	0.000453	ng/g
PCB 140 (BZ)	ND		0.0100	0.000453	ng/g
PCB 141 (BZ)	ND		0.0100	0.000472	ng/g
PCB 142 (BZ)	ND		0.0100	0.000520	ng/g
PCB 143 (BZ)	ND		0.0100	0.000529	ng/g
PCB 144 (BZ)	ND		0.0100	0.000384	ng/g

RJ Lee Group Inc.

Sample ID: WA110620090003-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 005	**Work Order #....:**	LT3511AA	**Matrix....:**	SOLID
Date Sampled....:	06/04/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0100	0.000291	ng/g
PCB 146 (BZ)	ND		0.0100	0.000430	ng/g
PCB 147 (BZ)	**0.00101**	**Q C J**	**0.0100**	**0.000440**	**ng/g**
PCB 148 (BZ)	ND		0.0100	0.000407	ng/g
PCB 149 (BZ)	**0.00101**	**Q C147 J**	**0.0100**	**0.000440**	**ng/g**
PCB 150 (BZ)	ND		0.0100	0.000283	ng/g
PCB 151 (BZ)	ND		0.0100	0.000414	ng/g
PCB 152 (BZ)	ND		0.0100	0.000289	ng/g
PCB 153 (BZ)	**0.00124**	**C J**	**0.0100**	**0.000354**	**ng/g**
PCB 154 (BZ)	ND		0.0100	0.000337	ng/g
PCB 155 (BZ)	ND		0.0100	0.000276	ng/g
PCB 156 (BZ)	ND		0.0100	0.000427	ng/g
PCB 157 (BZ)	ND		0.0100	0.000427	ng/g
PCB 158 (BZ)	ND		0.0100	0.000323	ng/g
PCB 159 (BZ)	ND		0.0100	0.000346	ng/g
PCB 160 (BZ)	**0.00136**	**Q C129 J**	**0.0100**	**0.000409**	**ng/g**
PCB 161 (BZ)	ND		0.0100	0.000345	ng/g
PCB 162 (BZ)	ND		0.0100	0.000342	ng/g
PCB 163 (BZ)	**0.00136**	**Q C129 J**	**0.0100**	**0.000409**	**ng/g**
PCB 164 (BZ)	ND		0.0100	0.000360	ng/g
PCB 165 (BZ)	ND		0.0100	0.000379	ng/g
PCB 166 (BZ)	ND		0.0100	0.000396	ng/g
PCB 167 (BZ)	ND		0.0100	0.000265	ng/g
PCB 168 (BZ)	**0.00124**	**C153 J**	**0.0100**	**0.000354**	**ng/g**
PCB 169 (BZ)	ND		0.0100	0.000263	ng/g
PCB 170 (BZ)	ND		0.0100	0.000446	ng/g
PCB 171 (BZ)	ND		0.0100	0.000438	ng/g
PCB 172 (BZ)	ND		0.0100	0.000434	ng/g
PCB 173 (BZ)	ND		0.0100	0.000438	ng/g
PCB 174 (BZ)	ND		0.0100	0.000406	ng/g
PCB 175 (BZ)	ND		0.0100	0.000390	ng/g
PCB 176 (BZ)	ND		0.0100	0.000297	ng/g
PCB 177 (BZ)	ND		0.0100	0.000416	ng/g
PCB 178 (BZ)	ND		0.0100	0.000421	ng/g
PCB 179 (BZ)	ND		0.0100	0.000313	ng/g
PCB 180 (BZ)	**0.000623**	**Q C J**	**0.0100**	**0.000331**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA110620090003-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 005	**Work Order #....:**	LT3511AA	**Matrix....:**	SOLID
Date Sampled....:	06/04/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000389	ng/g
PCB 182 (BZ)	ND		0.0100	0.000379	ng/g
PCB 183 (BZ)	ND		0.0100	0.000387	ng/g
PCB 184 (BZ)	ND		0.0100	0.000321	ng/g
PCB 185 (BZ)	ND		0.0100	0.000387	ng/g
PCB 186 (BZ)	ND		0.0100	0.000312	ng/g
PCB 187 (BZ)	ND		0.0100	0.000362	ng/g
PCB 188 (BZ)	ND		0.0100	0.000281	ng/g
PCB 189 (BZ)	ND		0.0100	0.000325	ng/g
PCB 190 (BZ)	ND		0.0100	0.000302	ng/g
PCB 191 (BZ)	ND		0.0100	0.000297	ng/g
PCB 192 (BZ)	ND		0.0100	0.000331	ng/g
PCB 193 (BZ)	**0.000623**	**Q C180 J**	**0.0100**	**0.000331**	**ng/g**
PCB 194 (BZ)	ND		0.0100	0.000368	ng/g
PCB 195 (BZ)	ND		0.0100	0.000399	ng/g
PCB 196 (BZ)	ND		0.0100	0.000439	ng/g
PCB 197 (BZ)	ND		0.0100	0.000327	ng/g
PCB 198 (BZ)	ND		0.0100	0.000453	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND		0.0100	0.000453	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND		0.0100	0.000321	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND		0.0100	0.000309	ng/g
PCB 202 (BZ)	ND		0.0100	0.000349	ng/g
PCB 203 (BZ)	ND		0.0100	0.000405	ng/g
PCB 204 (BZ)	ND		0.0100	0.000339	ng/g
PCB 205 (BZ)	ND		0.0100	0.000310	ng/g
PCB 206 (BZ)	ND		0.0100	0.000394	ng/g
PCB 207 (BZ)	ND		0.0100	0.000286	ng/g
PCB 208 (BZ)	ND		0.0100	0.000302	ng/g
PCB 209 (BZ)	ND		0.0100	0.000407	ng/g

RJ Lee Group Inc.

Sample ID: WA110620090003-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 005	**Work Order #....:**	LT3511AA	**Matrix....:**	SOLID
Date Sampled....:	06/04/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	67		30 - 140
13C12-PCB 3	58		30 - 140
13C12-PCB 4	77		30 - 140
13C12-PCB 15	72		30 - 140
13C12-PCB 19	78		30 - 140
13C12-PCB 37	74		30 - 140
13C12-PCB 54	75		30 - 140
13C12-PCB 77	73		30 - 140
13C12-PCB 81	74		30 - 140
13C12-PCB 104	82		30 - 140
13C12-PCB 105	81		30 - 140
13C12-PCB 114	84		30 - 140
13C12-PCB 118	80		30 - 140
13C12-PCB 123	79		30 - 140
13C12-PCB 126	83		30 - 140
13C12-PCB 155	94		30 - 140
13C12-PCB 156	82	C	30 - 140
13C12-PCB 157	82	C	30 - 140
13C12-PCB 167	80		30 - 140
13C12-PCB 169	80		30 - 140
13C12-PCB 170	90		30 - 140
13C12-PCB 188	96		30 - 140
13C12-PCB 189	79		30 - 140
13C12-PCB 202	106		30 - 140
13C12-PCB 205	93		30 - 140
13C12-PCB 206	105		30 - 140
13C12-PCB 208	97		30 - 140
13C12-PCB 209	98		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	79	40 - 125
13C12-PCB 111	82	40 - 125
13C12-PCB 178	83	40 - 125

RJ Lee Group Inc.

Sample ID: WA110620090003-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 005	**Work Order #....:**	LT3511AA	**Matrix....:**	SOLID
Date Sampled....:	06/04/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA220620090005-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 006	Work Order #....:	LT3541AA	Matrix....:	SOLID
Date Sampled....:	06/15/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000101	ng/g
PCB 2 (BZ)		ND		0.0100	0.000120	ng/g
PCB 3 (BZ)		ND		0.0100	0.000146	ng/g
PCB 4 (BZ)		ND		0.0200	0.00243	ng/g
PCB 5 (BZ)		ND		0.0100	0.00217	ng/g
PCB 6 (BZ)		ND		0.0100	0.00204	ng/g
PCB 7 (BZ)		ND		0.0100	0.00210	ng/g
PCB 8 (BZ)		**0.00168**	**Q B J**	**0.0200**	**0.00199**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00211	ng/g
PCB 10 (BZ)		ND		0.0100	0.00226	ng/g
PCB 11 (BZ)	0.02U	**0.00310**	**Q B J**	**0.0200**	**0.00201**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00206	ng/g
PCB 13 (BZ)		ND		0.0100	0.00206	ng/g
PCB 14 (BZ)		ND		0.0100	0.00177	ng/g
PCB 15 (BZ)		ND		0.0100	0.00239	ng/g
PCB 16 (BZ)		ND		0.0100	0.000608	ng/g
PCB 17 (BZ)		ND		0.0100	0.000507	ng/g
PCB 18 (BZ)		**0.00119**	**C J**	**0.0200**	**0.000449**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000622	ng/g
PCB 20 (BZ)	0.02U	**0.00143**	**B C J**	**0.0200**	**0.000345**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000773**	**Q B C J**	**0.0100**	**0.000346**	**ng/g**
PCB 22 (BZ)		ND		0.0100	0.000352	ng/g
PCB 23 (BZ)		ND		0.0100	0.000359	ng/g
PCB 24 (BZ)		ND		0.0100	0.000425	ng/g
PCB 25 (BZ)		ND		0.0100	0.000320	ng/g
PCB 26 (BZ)		ND		0.0100	0.000339	ng/g
PCB 27 (BZ)		ND		0.0100	0.000367	ng/g
PCB 28 (BZ)	0.02U	**0.00143**	**B C20 J**	**0.0200**	**0.000345**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000339	ng/g
PCB 30 (BZ)		**0.00119**	**C18 J**	**0.0200**	**0.000449**	**ng/g**
PCB 31 (BZ)	0.02U	**0.000909**	**B J**	**0.0200**	**0.000337**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000360	ng/g
PCB 33 (BZ)	0.01U	**0.000773**	**Q B C21 J**	**0.0100**	**0.000346**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000353	ng/g
PCB 35 (BZ)		ND		0.0100	0.000363	ng/g
PCB 36 (BZ)		ND		0.0100	0.000350	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA220620090005-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 006	**Work Order #....:**	LT3541AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000360	ng/g
PCB 38 (BZ)		ND		0.0100	0.000370	ng/g
PCB 39 (BZ)		ND		0.0100	0.000329	ng/g
PCB 40 (BZ)		ND		0.0100	0.000423	ng/g
PCB 41 (BZ)		ND		0.0100	0.000423	ng/g
PCB 42 (BZ)		ND		0.0100	0.000431	ng/g
PCB 43 (BZ)		ND		0.0100	0.000396	ng/g
PCB 44 (BZ)	0.01U	**0.00180**	**B C J**	**0.0100**	**0.000379**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000439	ng/g
PCB 46 (BZ)		ND		0.0100	0.000519	ng/g
PCB 47 (BZ)	0.01U	**0.00180**	**B C44 J**	**0.0100**	**0.000379**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000420	ng/g
PCB 49 (BZ)		ND		0.0100	0.000349	ng/g
PCB 50 (BZ)		ND		0.0100	0.000408	ng/g
PCB 51 (BZ)		ND		0.0100	0.000439	ng/g
PCB 52 (BZ)		**0.00127**	**Q J**	**0.0100**	**0.000408**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000408	ng/g
PCB 54 (BZ)		ND		0.0100	0.000446	ng/g
PCB 55 (BZ)		ND		0.0100	0.000328	ng/g
PCB 56 (BZ)		ND		0.0100	0.000309	ng/g
PCB 57 (BZ)		ND		0.0100	0.000312	ng/g
PCB 58 (BZ)		ND		0.0100	0.000311	ng/g
PCB 59 (BZ)		ND		0.0100	0.000302	ng/g
PCB 60 (BZ)		ND		0.0100	0.000318	ng/g
PCB 61 (BZ)	0.02U	**0.00122**	**B C J**	**0.0200**	**0.000301**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000302	ng/g
PCB 63 (BZ)		ND		0.0100	0.000290	ng/g
PCB 64 (BZ)		ND		0.0100	0.000285	ng/g
PCB 65 (BZ)	0.01U	**0.00180**	**B C44 J**	**0.0100**	**0.000379**	**ng/g**
PCB 66 (BZ)		ND		0.0100	0.000299	ng/g
PCB 67 (BZ)		ND		0.0100	0.000281	ng/g
PCB 68 (BZ)		ND		0.0100	0.000283	ng/g
PCB 69 (BZ)		ND		0.0100	0.000349	ng/g
PCB 70 (BZ)	0.02U	**0.00122**	**B C61 J**	**0.0200**	**0.000301**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000423	ng/g
PCB 72 (BZ)		ND		0.0100	0.000304	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA220620090005-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 006	**Work Order #....:**	LT3541AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0100	0.000396	ng/g
PCB 74 (BZ)	0.02U	**0.00122**	**B C61 J**	**0.0200**	**0.000301**	**ng/g**
PCB 75 (BZ)		ND		0.0100	0.000302	ng/g
PCB 76 (BZ)	0.02U	**0.00122**	**B C61 J**	**0.0200**	**0.000301**	**ng/g**
PCB 77 (BZ)		ND		0.0100	0.000296	ng/g
PCB 78 (BZ)		ND		0.0100	0.000323	ng/g
PCB 79 (BZ)		ND		0.0100	0.000283	ng/g
PCB 80 (BZ)		ND		0.0100	0.000277	ng/g
PCB 81 (BZ)		ND		0.0100	0.000289	ng/g
PCB 82 (BZ)		ND		0.0100	0.000455	ng/g
PCB 83 (BZ)		ND		0.0100	0.000382	ng/g
PCB 84 (BZ)		ND		0.0100	0.000434	ng/g
PCB 85 (BZ)		ND		0.0100	0.000315	ng/g
PCB 86 (BZ)		**0.00135**	**Q C J**	**0.0100**	**0.000322**	**ng/g**
PCB 87 (BZ)		**0.00135**	**Q C86 J**	**0.0100**	**0.000322**	**ng/g**
PCB 88 (BZ)		ND		0.0100	0.000387	ng/g
PCB 89 (BZ)		ND		0.0100	0.000420	ng/g
PCB 90 (BZ)		**0.00148**	**Q C J**	**0.0100**	**0.000328**	**ng/g**
PCB 91 (BZ)		ND		0.0100	0.000387	ng/g
PCB 92 (BZ)		ND		0.0100	0.000372	ng/g
PCB 93 (BZ)		ND		0.0100	0.000373	ng/g
PCB 94 (BZ)		ND		0.0100	0.000420	ng/g
PCB 95 (BZ)		ND		0.0100	0.000396	ng/g
PCB 96 (BZ)		ND		0.0100	0.000314	ng/g
PCB 97 (BZ)		**0.00135**	**Q C86 J**	**0.0100**	**0.000322**	**ng/g**
PCB 98 (BZ)		ND		0.0100	0.000362	ng/g
PCB 99 (BZ)		ND		0.0100	0.000382	ng/g
PCB 100 (BZ)		ND		0.0100	0.000373	ng/g
PCB 101 (BZ)		**0.00148**	**Q C90 J**	**0.0100**	**0.000328**	**ng/g**
PCB 102 (BZ)		ND		0.0100	0.000362	ng/g
PCB 103 (BZ)		ND		0.0100	0.000369	ng/g
PCB 104 (BZ)		ND		0.0100	0.000280	ng/g
PCB 105 (BZ)		**0.000566**	**Q J**	**0.0100**	**0.000321**	**ng/g**
PCB 106 (BZ)		ND		0.0100	0.000336	ng/g
PCB 107 (BZ)/109 (IUPAC)		ND		0.0100	0.000326	ng/g
PCB 108 (BZ)/107 (IUPAC)		ND		0.0100	0.000343	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA220620090005-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 006	**Work Order #....:**	LT3541AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	**0.00135**	**Q C86 J**	**0.0100**	**0.000322**	**ng/g**
PCB 110 (BZ)	**0.00270**	**Q C J**	**0.0100**	**0.000278**	**ng/g**
PCB 111 (BZ)	ND		0.0100	0.000263	ng/g
PCB 112 (BZ)	ND		0.0100	0.000286	ng/g
PCB 113 (BZ)	**0.00148**	**Q C90 J**	**0.0100**	**0.000328**	**ng/g**
PCB 114 (BZ)	ND		0.0100	0.000308	ng/g
PCB 115 (BZ)	**0.00270**	**Q C110 J**	**0.0100**	**0.000278**	**ng/g**
PCB 116 (BZ)	ND		0.0100	0.000315	ng/g
PCB 117 (BZ)	ND		0.0100	0.000315	ng/g
PCB 118 (BZ)	**0.00140**	**Q J**	**0.0100**	**0.000321**	**ng/g**
PCB 119 (BZ)	**0.00135**	**Q C86 J**	**0.0100**	**0.000322**	**ng/g**
PCB 120 (BZ)	ND		0.0100	0.000271	ng/g
PCB 121 (BZ)	ND		0.0100	0.000273	ng/g
PCB 122 (BZ)	ND		0.0100	0.000366	ng/g
PCB 123 (BZ)	ND		0.0100	0.000329	ng/g
PCB 124 (BZ)	ND		0.0100	0.000343	ng/g
PCB 125 (BZ)	**0.00135**	**Q C86 J**	**0.0100**	**0.000322**	**ng/g**
PCB 126 (BZ)	ND		0.0100	0.000332	ng/g
PCB 127 (BZ)	ND		0.0100	0.000332	ng/g
PCB 128 (BZ)	**0.00168**	**Q C J**	**0.0100**	**0.000572**	**ng/g**
PCB 129 (BZ)	**0.0166**	**C**	**0.0100**	**0.000591**	**ng/g**
PCB 130 (BZ)	ND		0.0100	0.000763	ng/g
PCB 131 (BZ)	ND		0.0100	0.000782	ng/g
PCB 132 (BZ)	**0.00296**	**Q J**	**0.0100**	**0.000744**	**ng/g**
PCB 133 (BZ)	ND		0.0100	0.000717	ng/g
PCB 134 (BZ)	ND		0.0100	0.000764	ng/g
PCB 135 (BZ)	**0.00253**	**C J**	**0.0100**	**0.000649**	**ng/g**
PCB 136 (BZ)	**0.00156**	**Q J**	**0.0100**	**0.000477**	**ng/g**
PCB 137 (BZ)	ND		0.0100	0.000658	ng/g
PCB 138 (BZ)	**0.0166**	**C129**	**0.0100**	**0.000591**	**ng/g**
PCB 139 (BZ)	ND		0.0100	0.000655	ng/g
PCB 140 (BZ)	ND		0.0100	0.000655	ng/g
PCB 141 (BZ)	**0.00152**	**Q J**	**0.0100**	**0.000681**	**ng/g**
PCB 142 (BZ)	ND		0.0100	0.000752	ng/g
PCB 143 (BZ)	ND		0.0100	0.000764	ng/g
PCB 144 (BZ)	ND		0.0100	0.000603	ng/g

RJ Lee Group Inc.

Sample ID: WA220620090005-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 006	**Work Order #....:**	LT3541AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0100	0.000456	ng/g
PCB 146 (BZ)	**0.00113**	**Q J**	**0.0100**	**0.000622**	**ng/g**
PCB 147 (BZ)	**0.0135**	**C**	**0.0100**	**0.000636**	**ng/g**
PCB 148 (BZ)	ND		0.0100	0.000638	ng/g
PCB 149 (BZ)	**0.0135**	**C147**	**0.0100**	**0.000636**	**ng/g**
PCB 150 (BZ)	ND		0.0100	0.000444	ng/g
PCB 151 (BZ)	**0.00253**	**C135 J**	**0.0100**	**0.000649**	**ng/g**
PCB 152 (BZ)	ND		0.0100	0.000453	ng/g
PCB 153 (BZ)	**0.0108**	**C**	**0.0100**	**0.000511**	**ng/g**
PCB 154 (BZ)	ND		0.0100	0.000528	ng/g
PCB 155 (BZ)	ND		0.0100	0.000432	ng/g
PCB 156 (BZ)	ND		0.0100	0.000628	ng/g
PCB 157 (BZ)	ND		0.0100	0.000628	ng/g
PCB 158 (BZ)	**0.000656**	**Q J**	**0.0100**	**0.000466**	**ng/g**
PCB 159 (BZ)	ND		0.0100	0.000500	ng/g
PCB 160 (BZ)	**0.0166**	**C129**	**0.0100**	**0.000591**	**ng/g**
PCB 161 (BZ)	ND		0.0100	0.000498	ng/g
PCB 162 (BZ)	ND		0.0100	0.000494	ng/g
PCB 163 (BZ)	**0.0166**	**C129**	**0.0100**	**0.000591**	**ng/g**
PCB 164 (BZ)	**0.00138**	**J**	**0.0100**	**0.000521**	**ng/g**
PCB 165 (BZ)	ND		0.0100	0.000547	ng/g
PCB 166 (BZ)	**0.00168**	**Q C128 J**	**0.0100**	**0.000572**	**ng/g**
PCB 167 (BZ)	ND		0.0100	0.000375	ng/g
PCB 168 (BZ)	**0.0108**	**C153**	**0.0100**	**0.000511**	**ng/g**
PCB 169 (BZ)	ND		0.0100	0.000380	ng/g
PCB 170 (BZ)	**0.0166**		**0.0100**	**0.000717**	**ng/g**
PCB 171 (BZ)	**0.00335**	**C J**	**0.0100**	**0.000693**	**ng/g**
PCB 172 (BZ)	**0.00168**	**Q J**	**0.0100**	**0.000686**	**ng/g**
PCB 173 (BZ)	**0.00335**	**C171 J**	**0.0100**	**0.000693**	**ng/g**
PCB 174 (BZ)	**0.0116**		**0.0100**	**0.000642**	**ng/g**
PCB 175 (BZ)	ND		0.0100	0.000617	ng/g
PCB 176 (BZ)	ND		0.0100	0.000470	ng/g
PCB 177 (BZ)	**0.00809**	**J**	**0.0100**	**0.000658**	**ng/g**
PCB 178 (BZ)	**0.00179**	**Q J**	**0.0100**	**0.000667**	**ng/g**
PCB 179 (BZ)	**0.00397**	**J**	**0.0100**	**0.000495**	**ng/g**
PCB 180 (BZ)	**0.0326**	**C**	**0.0100**	**0.000524**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA220620090005-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 006	**Work Order #....:**	LT3541AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000616	ng/g
PCB 182 (BZ)	ND		0.0100	0.000599	ng/g
PCB 183 (BZ)	**0.00432**	**Q C J**	**0.0100**	**0.000612**	**ng/g**
PCB 184 (BZ)	ND		0.0100	0.000509	ng/g
PCB 185 (BZ)	**0.00432**	**Q C183 J**	**0.0100**	**0.000612**	**ng/g**
PCB 186 (BZ)	ND		0.0100	0.000494	ng/g
PCB 187 (BZ)	**0.0151**		**0.0100**	**0.000573**	**ng/g**
PCB 188 (BZ)	ND		0.0100	0.000440	ng/g
PCB 189 (BZ)	ND		0.0100	0.000510	ng/g
PCB 190 (BZ)	**0.00125**	**J**	**0.0100**	**0.000478**	**ng/g**
PCB 191 (BZ)	ND		0.0100	0.000469	ng/g
PCB 192 (BZ)	ND		0.0100	0.000524	ng/g
PCB 193 (BZ)	**0.0326**	**C180**	**0.0100**	**0.000524**	**ng/g**
PCB 194 (BZ)	**0.00669**	**J**	**0.0100**	**0.000435**	**ng/g**
PCB 195 (BZ)	**0.00172**	**Q J**	**0.0100**	**0.000472**	**ng/g**
PCB 196 (BZ)	**0.00265**	**Q J**	**0.0100**	**0.000484**	**ng/g**
PCB 197 (BZ)	ND		0.0100	0.000360	ng/g
PCB 198 (BZ)	**0.00567**	**C J**	**0.0100**	**0.000500**	**ng/g**
PCB 201 (BZ)/199 (IUPAC)	**0.00567**	**C198 J**	**0.0100**	**0.000500**	**ng/g**
PCB 199 (BZ)/200 (IUPAC)	ND		0.0100	0.000354	ng/g
PCB 200 (BZ)/201 (IUPAC)	**0.000628**	**J**	**0.0100**	**0.000341**	**ng/g**
PCB 202 (BZ)	ND		0.0100	0.000385	ng/g
PCB 203 (BZ)	**0.00282**	**Q J**	**0.0100**	**0.000446**	**ng/g**
PCB 204 (BZ)	ND		0.0100	0.000374	ng/g
PCB 205 (BZ)	ND		0.0100	0.000366	ng/g
PCB 206 (BZ)	**0.00327**	**J**	**0.0100**	**0.000535**	**ng/g**
PCB 207 (BZ)	**0.000785**	**J**	**0.0100**	**0.000389**	**ng/g**
PCB 208 (BZ)	**0.00164**	**Q J**	**0.0100**	**0.000410**	**ng/g**
PCB 209 (BZ)	**0.0241**		**0.0100**	**0.000622**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA220620090005-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 006	**Work Order #....:**	LT3541AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	67		30 - 140
13C12-PCB 3	59		30 - 140
13C12-PCB 4	80		30 - 140
13C12-PCB 15	73		30 - 140
13C12-PCB 19	78		30 - 140
13C12-PCB 37	75		30 - 140
13C12-PCB 54	78		30 - 140
13C12-PCB 77	73		30 - 140
13C12-PCB 81	75		30 - 140
13C12-PCB 104	84		30 - 140
13C12-PCB 105	81		30 - 140
13C12-PCB 114	85		30 - 140
13C12-PCB 118	80		30 - 140
13C12-PCB 123	81		30 - 140
13C12-PCB 126	84		30 - 140
13C12-PCB 155	94		30 - 140
13C12-PCB 156	81	C	30 - 140
13C12-PCB 157	81	C	30 - 140
13C12-PCB 167	78		30 - 140
13C12-PCB 169	80		30 - 140
13C12-PCB 170	89		30 - 140
13C12-PCB 188	93		30 - 140
13C12-PCB 189	78		30 - 140
13C12-PCB 202	107		30 - 140
13C12-PCB 205	91		30 - 140
13C12-PCB 206	102		30 - 140
13C12-PCB 208	98		30 - 140
13C12-PCB 209	101		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	79	40 - 125
13C12-PCB 111	84	40 - 125
13C12-PCB 178	81	40 - 125

RJ Lee Group Inc.

Sample ID: WA220620090005-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 006	**Work Order #....:**	LT3541AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA220620090005-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 007	Work Order #....:	LT3561AA	Matrix....:	SOLID
Date Sampled....:	06/15/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000131	ng/g
PCB 2 (BZ)		ND		0.0100	0.000155	ng/g
PCB 3 (BZ)		ND		0.0100	0.000186	ng/g
PCB 4 (BZ)		ND		0.0200	0.00245	ng/g
PCB 5 (BZ)		ND		0.0100	0.00199	ng/g
PCB 6 (BZ)		ND		0.0100	0.00188	ng/g
PCB 7 (BZ)		ND		0.0100	0.00193	ng/g
PCB 8 (BZ)		**0.00247**	**Q B J**	**0.0200**	**0.00184**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00194	ng/g
PCB 10 (BZ)		ND		0.0100	0.00208	ng/g
PCB 11 (BZ)	0.02U	**0.00375**	**Q B J**	**0.0200**	**0.00185**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00189	ng/g
PCB 13 (BZ)		ND		0.0100	0.00189	ng/g
PCB 14 (BZ)		ND		0.0100	0.00163	ng/g
PCB 15 (BZ)		**0.000973**	**Q J**	**0.0100**	**0.00203**	**ng/g**
PCB 16 (BZ)		ND		0.0100	0.000639	ng/g
PCB 17 (BZ)		ND		0.0100	0.000533	ng/g
PCB 18 (BZ)		**0.00186**	**Q C J**	**0.0200**	**0.000472**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000653	ng/g
PCB 20 (BZ)	0.02U	**0.00172**	**Q B C J**	**0.0200**	**0.000324**	**ng/g**
PCB 21 (BZ)	0.01U	**0.00126**	**Q B C J**	**0.0100**	**0.000325**	**ng/g**
PCB 22 (BZ)		ND		0.0100	0.000330	ng/g
PCB 23 (BZ)		ND		0.0100	0.000337	ng/g
PCB 24 (BZ)		ND		0.0100	0.000446	ng/g
PCB 25 (BZ)		ND		0.0100	0.000300	ng/g
PCB 26 (BZ)		ND		0.0100	0.000319	ng/g
PCB 27 (BZ)		ND		0.0100	0.000385	ng/g
PCB 28 (BZ)	0.02U	**0.00172**	**Q B C20 J**	**0.0200**	**0.000324**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000319	ng/g
PCB 30 (BZ)		**0.00186**	**Q C18 J**	**0.0200**	**0.000472**	**ng/g**
PCB 31 (BZ)	0.02U	**0.00119**	**Q B J**	**0.0200**	**0.000317**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000377	ng/g
PCB 33 (BZ)	0.01U	**0.00126**	**Q B C21 J**	**0.0100**	**0.000325**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000332	ng/g
PCB 35 (BZ)		ND		0.0100	0.000341	ng/g
PCB 36 (BZ)		ND		0.0100	0.000329	ng/g

RJ Lee Group Inc.

Sample ID: WA220620090005-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 007	**Work Order #....:**	LT3561AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000338	ng/g
PCB 38 (BZ)		ND		0.0100	0.000347	ng/g
PCB 39 (BZ)		ND		0.0100	0.000309	ng/g
PCB 40 (BZ)		ND		0.0100	0.000389	ng/g
PCB 41 (BZ)		ND		0.0100	0.000389	ng/g
PCB 42 (BZ)		ND		0.0100	0.000396	ng/g
PCB 43 (BZ)		ND		0.0100	0.000363	ng/g
PCB 44 (BZ)	0.01U	**0.00249**	**B C J**	**0.0100**	**0.000348**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000403	ng/g
PCB 46 (BZ)		ND		0.0100	0.000476	ng/g
PCB 47 (BZ)	0.01U	**0.00249**	**B C44 J**	**0.0100**	**0.000348**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000386	ng/g
PCB 49 (BZ)		**0.000953**	**C J**	**0.0100**	**0.000320**	**ng/g**
PCB 50 (BZ)		ND		0.0100	0.000374	ng/g
PCB 51 (BZ)		ND		0.0100	0.000403	ng/g
PCB 52 (BZ)		**0.00332**	**J**	**0.0100**	**0.000375**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000374	ng/g
PCB 54 (BZ)		ND		0.0100	0.000445	ng/g
PCB 55 (BZ)		ND		0.0100	0.000301	ng/g
PCB 56 (BZ)		ND		0.0100	0.000283	ng/g
PCB 57 (BZ)		ND		0.0100	0.000287	ng/g
PCB 58 (BZ)		ND		0.0100	0.000285	ng/g
PCB 59 (BZ)		ND		0.0100	0.000277	ng/g
PCB 60 (BZ)		ND		0.0100	0.000292	ng/g
PCB 61 (BZ)	0.02U	**0.00317**	**B C J**	**0.0200**	**0.000277**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000277	ng/g
PCB 63 (BZ)		ND		0.0100	0.000266	ng/g
PCB 64 (BZ)		**0.000746**	**J**	**0.0100**	**0.000262**	**ng/g**
PCB 65 (BZ)	0.01U	**0.00249**	**B C44 J**	**0.0100**	**0.000348**	**ng/g**
PCB 66 (BZ)	0.01U	**0.000701**	**Q B J**	**0.0100**	**0.000275**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000258	ng/g
PCB 68 (BZ)		ND		0.0100	0.000260	ng/g
PCB 69 (BZ)		**0.000953**	**C49 J**	**0.0100**	**0.000320**	**ng/g**
PCB 70 (BZ)	0.02U	**0.00317**	**B C61 J**	**0.0200**	**0.000277**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000389	ng/g
PCB 72 (BZ)		ND		0.0100	0.000279	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA220620090005-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 007	**Work Order #....:**	LT3561AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0100	0.000363	ng/g
PCB 74 (BZ)	0.02U	**0.00317**	**B C61 J**	**0.0200**	**0.000277**	**ng/g**
PCB 75 (BZ)		ND		0.0100	0.000277	ng/g
PCB 76 (BZ)	0.02U	**0.00317**	**B C61 J**	**0.0200**	**0.000277**	**ng/g**
PCB 77 (BZ)		ND		0.0100	0.000272	ng/g
PCB 78 (BZ)		ND		0.0100	0.000296	ng/g
PCB 79 (BZ)		ND		0.0100	0.000260	ng/g
PCB 80 (BZ)		ND		0.0100	0.000254	ng/g
PCB 81 (BZ)		ND		0.0100	0.000265	ng/g
PCB 82 (BZ)		ND		0.0100	0.000523	ng/g
PCB 83 (BZ)		**0.00187**	**Q C J**	**0.0100**	**0.000440**	**ng/g**
PCB 84 (BZ)		**0.00169**	**J**	**0.0100**	**0.000500**	**ng/g**
PCB 85 (BZ)		ND		0.0100	0.000362	ng/g
PCB 86 (BZ)		**0.00372**	**C J**	**0.0100**	**0.000371**	**ng/g**
PCB 87 (BZ)		**0.00372**	**C86 J**	**0.0100**	**0.000371**	**ng/g**
PCB 88 (BZ)		ND		0.0100	0.000446	ng/g
PCB 89 (BZ)		ND		0.0100	0.000484	ng/g
PCB 90 (BZ)		**0.00683**	**C J**	**0.0100**	**0.000377**	**ng/g**
PCB 91 (BZ)		ND		0.0100	0.000446	ng/g
PCB 92 (BZ)		**0.000881**	**Q J**	**0.0100**	**0.000428**	**ng/g**
PCB 93 (BZ)		ND		0.0100	0.000430	ng/g
PCB 94 (BZ)		ND		0.0100	0.000484	ng/g
PCB 95 (BZ)		**0.00510**	**Q J**	**0.0100**	**0.000456**	**ng/g**
PCB 96 (BZ)		ND		0.0100	0.000362	ng/g
PCB 97 (BZ)		**0.00372**	**C86 J**	**0.0100**	**0.000371**	**ng/g**
PCB 98 (BZ)		ND		0.0100	0.000417	ng/g
PCB 99 (BZ)		**0.00187**	**Q C83 J**	**0.0100**	**0.000440**	**ng/g**
PCB 100 (BZ)		ND		0.0100	0.000430	ng/g
PCB 101 (BZ)		**0.00683**	**C90 J**	**0.0100**	**0.000377**	**ng/g**
PCB 102 (BZ)		ND		0.0100	0.000417	ng/g
PCB 103 (BZ)		ND		0.0100	0.000424	ng/g
PCB 104 (BZ)		ND		0.0100	0.000323	ng/g
PCB 105 (BZ)		**0.00164**	**J**	**0.0100**	**0.000359**	**ng/g**
PCB 106 (BZ)		ND		0.0100	0.000374	ng/g
PCB 107 (BZ)/109 (IUPAC)		ND		0.0100	0.000363	ng/g
PCB 108 (BZ)/107 (IUPAC)		ND		0.0100	0.000382	ng/g

RJ Lee Group Inc.

Sample ID: WA220620090005-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 007	**Work Order #....:**	LT3561AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	**0.00372**	**C86 J**	**0.0100**	**0.000371**	**ng/g**
PCB 110 (BZ)	**0.0101**	**C**	**0.0100**	**0.000320**	**ng/g**
PCB 111 (BZ)	ND		0.0100	0.000303	ng/g
PCB 112 (BZ)	ND		0.0100	0.000329	ng/g
PCB 113 (BZ)	**0.00683**	**C90 J**	**0.0100**	**0.000377**	**ng/g**
PCB 114 (BZ)	ND		0.0100	0.000334	ng/g
PCB 115 (BZ)	**0.0101**	**C110**	**0.0100**	**0.000320**	**ng/g**
PCB 116 (BZ)	ND		0.0100	0.000362	ng/g
PCB 117 (BZ)	ND		0.0100	0.000362	ng/g
PCB 118 (BZ)	**0.00505**	**J**	**0.0100**	**0.000359**	**ng/g**
PCB 119 (BZ)	**0.00372**	**C86 J**	**0.0100**	**0.000371**	**ng/g**
PCB 120 (BZ)	ND		0.0100	0.000312	ng/g
PCB 121 (BZ)	ND		0.0100	0.000314	ng/g
PCB 122 (BZ)	ND		0.0100	0.000407	ng/g
PCB 123 (BZ)	ND		0.0100	0.000385	ng/g
PCB 124 (BZ)	ND		0.0100	0.000382	ng/g
PCB 125 (BZ)	**0.00372**	**C86 J**	**0.0100**	**0.000371**	**ng/g**
PCB 126 (BZ)	ND		0.0100	0.000359	ng/g
PCB 127 (BZ)	ND		0.0100	0.000370	ng/g
PCB 128 (BZ)	**0.00526**	**C J**	**0.0100**	**0.000632**	**ng/g**
PCB 129 (BZ)	**0.0330**	**C**	**0.0100**	**0.000653**	**ng/g**
PCB 130 (BZ)	**0.000799**	**Q J**	**0.0100**	**0.000843**	**ng/g**
PCB 131 (BZ)	ND		0.0100	0.000864	ng/g
PCB 132 (BZ)	**0.00926**	**J**	**0.0100**	**0.000822**	**ng/g**
PCB 133 (BZ)	ND		0.0100	0.000792	ng/g
PCB 134 (BZ)	**0.000876**	**Q C J**	**0.0100**	**0.000844**	**ng/g**
PCB 135 (BZ)	**0.00462**	**Q C J**	**0.0100**	**0.000728**	**ng/g**
PCB 136 (BZ)	**0.00422**	**J**	**0.0100**	**0.000535**	**ng/g**
PCB 137 (BZ)	ND		0.0100	0.000727	ng/g
PCB 138 (BZ)	**0.0330**	**C129**	**0.0100**	**0.000653**	**ng/g**
PCB 139 (BZ)	ND		0.0100	0.000723	ng/g
PCB 140 (BZ)	ND		0.0100	0.000723	ng/g
PCB 141 (BZ)	**0.00231**	**J**	**0.0100**	**0.000753**	**ng/g**
PCB 142 (BZ)	ND		0.0100	0.000831	ng/g
PCB 143 (BZ)	**0.000876**	**Q C134 J**	**0.0100**	**0.000844**	**ng/g**
PCB 144 (BZ)	ND		0.0100	0.000676	ng/g

RJ Lee Group Inc.

Sample ID: WA220620090005-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 007	Work Order #....:	LT3561AA	Matrix....:	SOLID
Date Sampled....:	06/15/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0100	0.000511	ng/g
PCB 146 (BZ)	**0.00321**	**J**	**0.0100**	**0.000687**	**ng/g**
PCB 147 (BZ)	**0.0298**	**C**	**0.0100**	**0.000702**	**ng/g**
PCB 148 (BZ)	ND		0.0100	0.000715	ng/g
PCB 149 (BZ)	**0.0298**	**C147**	**0.0100**	**0.000702**	**ng/g**
PCB 150 (BZ)	ND		0.0100	0.000498	ng/g
PCB 151 (BZ)	**0.00462**	**Q C135 J**	**0.0100**	**0.000728**	**ng/g**
PCB 152 (BZ)	ND		0.0100	0.000508	ng/g
PCB 153 (BZ)	**0.0169**	**C**	**0.0100**	**0.000565**	**ng/g**
PCB 154 (BZ)	ND		0.0100	0.000592	ng/g
PCB 155 (BZ)	ND		0.0100	0.000484	ng/g
PCB 156 (BZ)	**0.00117**	**Q C J**	**0.0100**	**0.000684**	**ng/g**
PCB 157 (BZ)	**0.00117**	**Q C156 J**	**0.0100**	**0.000684**	**ng/g**
PCB 158 (BZ)	**0.00203**	**J**	**0.0100**	**0.000515**	**ng/g**
PCB 159 (BZ)	ND		0.0100	0.000553	ng/g
PCB 160 (BZ)	**0.0330**	**C129**	**0.0100**	**0.000653**	**ng/g**
PCB 161 (BZ)	ND		0.0100	0.000550	ng/g
PCB 162 (BZ)	ND		0.0100	0.000546	ng/g
PCB 163 (BZ)	**0.0330**	**C129**	**0.0100**	**0.000653**	**ng/g**
PCB 164 (BZ)	**0.00355**	**J**	**0.0100**	**0.000575**	**ng/g**
PCB 165 (BZ)	ND		0.0100	0.000604	ng/g
PCB 166 (BZ)	**0.00526**	**C128 J**	**0.0100**	**0.000632**	**ng/g**
PCB 167 (BZ)	**0.000706**	**Q J**	**0.0100**	**0.000415**	**ng/g**
PCB 168 (BZ)	**0.0169**	**C153**	**0.0100**	**0.000565**	**ng/g**
PCB 169 (BZ)	ND		0.0100	0.000426	ng/g
PCB 170 (BZ)	**0.0333**		**0.0100**	**0.000691**	**ng/g**
PCB 171 (BZ)	**0.00693**	**C J**	**0.0100**	**0.000685**	**ng/g**
PCB 172 (BZ)	**0.00406**	**J**	**0.0100**	**0.000678**	**ng/g**
PCB 173 (BZ)	**0.00693**	**C171 J**	**0.0100**	**0.000685**	**ng/g**
PCB 174 (BZ)	**0.0272**		**0.0100**	**0.000635**	**ng/g**
PCB 175 (BZ)	ND		0.0100	0.000609	ng/g
PCB 176 (BZ)	**0.00167**	**J**	**0.0100**	**0.000464**	**ng/g**
PCB 177 (BZ)	**0.0149**		**0.0100**	**0.000650**	**ng/g**
PCB 178 (BZ)	**0.00304**	**Q J**	**0.0100**	**0.000659**	**ng/g**
PCB 179 (BZ)	**0.00817**	**J**	**0.0100**	**0.000490**	**ng/g**
PCB 180 (BZ)	**0.0596**	**C**	**0.0100**	**0.000517**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA220620090005-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 007	**Work Order #....:**	LT3561AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000609	ng/g
PCB 182 (BZ)	ND		0.0100	0.000592	ng/g
PCB 183 (BZ)	**0.0147**	**C**	**0.0100**	**0.000605**	**ng/g**
PCB 184 (BZ)	ND		0.0100	0.000503	ng/g
PCB 185 (BZ)	**0.0147**	**C183**	**0.0100**	**0.000605**	**ng/g**
PCB 186 (BZ)	ND		0.0100	0.000488	ng/g
PCB 187 (BZ)	**0.0316**		**0.0100**	**0.000566**	**ng/g**
PCB 188 (BZ)	ND		0.0100	0.000442	ng/g
PCB 189 (BZ)	**0.000879**	**J**	**0.0100**	**0.000478**	**ng/g**
PCB 190 (BZ)	**0.00280**	**J**	**0.0100**	**0.000472**	**ng/g**
PCB 191 (BZ)	**0.000739**	**Q J**	**0.0100**	**0.000464**	**ng/g**
PCB 192 (BZ)	ND		0.0100	0.000518	ng/g
PCB 193 (BZ)	**0.0596**	**C180**	**0.0100**	**0.000517**	**ng/g**
PCB 194 (BZ)	**0.0143**		**0.0100**	**0.000416**	**ng/g**
PCB 195 (BZ)	**0.00434**	**J**	**0.0100**	**0.000451**	**ng/g**
PCB 196 (BZ)	**0.00546**	**J**	**0.0100**	**0.000488**	**ng/g**
PCB 197 (BZ)	ND		0.0100	0.000363	ng/g
PCB 198 (BZ)	**0.0135**	**C**	**0.0100**	**0.000504**	**ng/g**
PCB 201 (BZ)/199 (IUPAC)	**0.0135**	**C198**	**0.0100**	**0.000504**	**ng/g**
PCB 199 (BZ)/200 (IUPAC)	**0.000947**	**J**	**0.0100**	**0.000356**	**ng/g**
PCB 200 (BZ)/201 (IUPAC)	**0.00108**	**Q J**	**0.0100**	**0.000344**	**ng/g**
PCB 202 (BZ)	**0.00147**	**J**	**0.0100**	**0.000388**	**ng/g**
PCB 203 (BZ)	**0.00685**	**J**	**0.0100**	**0.000450**	**ng/g**
PCB 204 (BZ)	ND		0.0100	0.000377	ng/g
PCB 205 (BZ)	ND		0.0100	0.000350	ng/g
PCB 206 (BZ)	**0.00590**	**J**	**0.0100**	**0.000443**	**ng/g**
PCB 207 (BZ)	**0.000728**	**J**	**0.0100**	**0.000334**	**ng/g**
PCB 208 (BZ)	**0.00170**	**J**	**0.0100**	**0.000362**	**ng/g**
PCB 209 (BZ)	**0.0297**		**0.0100**	**0.000599**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA220620090005-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 007	**Work Order #....:**	LT3561AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	58		30 - 140
13C12-PCB 3	59		30 - 140
13C12-PCB 4	70		30 - 140
13C12-PCB 15	74		30 - 140
13C12-PCB 19	73		30 - 140
13C12-PCB 37	75		30 - 140
13C12-PCB 54	74		30 - 140
13C12-PCB 77	76		30 - 140
13C12-PCB 81	77		30 - 140
13C12-PCB 104	85		30 - 140
13C12-PCB 105	78		30 - 140
13C12-PCB 114	81		30 - 140
13C12-PCB 118	77		30 - 140
13C12-PCB 123	77		30 - 140
13C12-PCB 126	81		30 - 140
13C12-PCB 155	94		30 - 140
13C12-PCB 156	83	C	30 - 140
13C12-PCB 157	83	C	30 - 140
13C12-PCB 167	80		30 - 140
13C12-PCB 169	81		30 - 140
13C12-PCB 170	90		30 - 140
13C12-PCB 188	96		30 - 140
13C12-PCB 189	82		30 - 140
13C12-PCB 202	108		30 - 140
13C12-PCB 205	95		30 - 140
13C12-PCB 206	105		30 - 140
13C12-PCB 208	97		30 - 140
13C12-PCB 209	102		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	80	40 - 125
13C12-PCB 111	86	40 - 125
13C12-PCB 178	84	40 - 125

RJ Lee Group Inc.

Sample ID: WA220620090005-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 007	**Work Order #....:**	LT3561AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA220620090005-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 008	Work Order #....:	LT3571AA	Matrix....:	SOLID
Date Sampled....:	06/15/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.0000809	ng/g
PCB 2 (BZ)		ND		0.0100	0.000102	ng/g
PCB 3 (BZ)		ND		0.0100	0.000134	ng/g
PCB 4 (BZ)		ND		0.0200	0.00196	ng/g
PCB 5 (BZ)		ND		0.0100	0.00179	ng/g
PCB 6 (BZ)		ND		0.0100	0.00168	ng/g
PCB 7 (BZ)		ND		0.0100	0.00173	ng/g
PCB 8 (BZ)		**0.00168**	**Q B J**	**0.0200**	**0.00164**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00174	ng/g
PCB 10 (BZ)		ND		0.0100	0.00187	ng/g
PCB 11 (BZ)	0.02U	**0.00297**	**Q B J**	**0.0200**	**0.00165**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00169	ng/g
PCB 13 (BZ)		ND		0.0100	0.00169	ng/g
PCB 14 (BZ)		ND		0.0100	0.00146	ng/g
PCB 15 (BZ)		**0.000800**	**Q J**	**0.0100**	**0.00201**	**ng/g**
PCB 16 (BZ)		ND		0.0100	0.000605	ng/g
PCB 17 (BZ)		ND		0.0100	0.000505	ng/g
PCB 18 (BZ)		**0.00119**	**C J**	**0.0200**	**0.000447**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000619	ng/g
PCB 20 (BZ)	0.02U	**0.00124**	**Q B C J**	**0.0200**	**0.000339**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000496**	**Q B C J**	**0.0100**	**0.000340**	**ng/g**
PCB 22 (BZ)		ND		0.0100	0.000345	ng/g
PCB 23 (BZ)		ND		0.0100	0.000352	ng/g
PCB 24 (BZ)		ND		0.0100	0.000423	ng/g
PCB 25 (BZ)		ND		0.0100	0.000314	ng/g
PCB 26 (BZ)		ND		0.0100	0.000333	ng/g
PCB 27 (BZ)		ND		0.0100	0.000365	ng/g
PCB 28 (BZ)	0.02U	**0.00124**	**Q B C20 J**	**0.0200**	**0.000339**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000333	ng/g
PCB 30 (BZ)		**0.00119**	**C18 J**	**0.0200**	**0.000447**	**ng/g**
PCB 31 (BZ)	0.02U	**0.00104**	**B J**	**0.0200**	**0.000331**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000358	ng/g
PCB 33 (BZ)	0.01U	**0.000496**	**Q B C21 J**	**0.0100**	**0.000340**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000347	ng/g
PCB 35 (BZ)		ND		0.0100	0.000356	ng/g
PCB 36 (BZ)		ND		0.0100	0.000344	ng/g

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9-13-2010

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Sample ID: WA220620090005-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 008	**Work Order #....:**	LT3571AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000353	ng/g
PCB 38 (BZ)		ND		0.0100	0.000363	ng/g
PCB 39 (BZ)		ND		0.0100	0.000323	ng/g
PCB 40 (BZ)		ND		0.0100	0.000415	ng/g
PCB 41 (BZ)		ND		0.0100	0.000415	ng/g
PCB 42 (BZ)		ND		0.0100	0.000423	ng/g
PCB 43 (BZ)		ND		0.0100	0.000388	ng/g
PCB 44 (BZ)	0.01U	**0.00138**	**B C J**	**0.0100**	**0.000371**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000431	ng/g
PCB 46 (BZ)		ND		0.0100	0.000509	ng/g
PCB 47 (BZ)	0.01U	**0.00138**	**B C44 J**	**0.0100**	**0.000371**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000412	ng/g
PCB 49 (BZ)		ND		0.0100	0.000342	ng/g
PCB 50 (BZ)		ND		0.0100	0.000400	ng/g
PCB 51 (BZ)		ND		0.0100	0.000431	ng/g
PCB 52 (BZ)		ND		0.0100	0.000400	ng/g
PCB 53 (BZ)		ND		0.0100	0.000400	ng/g
PCB 54 (BZ)		ND		0.0100	0.000408	ng/g
PCB 55 (BZ)		ND		0.0100	0.000322	ng/g
PCB 56 (BZ)		ND		0.0100	0.000303	ng/g
PCB 57 (BZ)		ND		0.0100	0.000306	ng/g
PCB 58 (BZ)		ND		0.0100	0.000305	ng/g
PCB 59 (BZ)		ND		0.0100	0.000296	ng/g
PCB 60 (BZ)		ND		0.0100	0.000312	ng/g
PCB 61 (BZ)	0.02U	**0.00149**	**B C J**	**0.0200**	**0.000295**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000296	ng/g
PCB 63 (BZ)		ND		0.0100	0.000284	ng/g
PCB 64 (BZ)		ND		0.0100	0.000280	ng/g
PCB 65 (BZ)	0.01U	**0.00138**	**B C44 J**	**0.0100**	**0.000371**	**ng/g**
PCB 66 (BZ)	0.01U	**0.000656**	**Q B J**	**0.0100**	**0.000294**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000275	ng/g
PCB 68 (BZ)		ND		0.0100	0.000278	ng/g
PCB 69 (BZ)		ND		0.0100	0.000342	ng/g
PCB 70 (BZ)	0.02U	**0.00149**	**B C61 J**	**0.0200**	**0.000295**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000415	ng/g
PCB 72 (BZ)		ND		0.0100	0.000298	ng/g

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RJ Lee Group Inc.

Sample ID: WA220620090005-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 008	**Work Order #....:**	LT3571AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0100	0.000388	ng/g
PCB 74 (BZ)	0.02U	**0.00149**	**B C61 J**	**0.0200**	**0.000295**	**ng/g**
PCB 75 (BZ)		ND		0.0100	0.000296	ng/g
PCB 76 (BZ)	0.02U	**0.00149**	**B C61 J**	**0.0200**	**0.000295**	**ng/g**
PCB 77 (BZ)		ND		0.0100	0.000290	ng/g
PCB 78 (BZ)		ND		0.0100	0.000317	ng/g
PCB 79 (BZ)		ND		0.0100	0.000278	ng/g
PCB 80 (BZ)		ND		0.0100	0.000271	ng/g
PCB 81 (BZ)		ND		0.0100	0.000284	ng/g
PCB 82 (BZ)		ND		0.0100	0.000457	ng/g
PCB 83 (BZ)		ND		0.0100	0.000384	ng/g
PCB 84 (BZ)		ND		0.0100	0.000436	ng/g
PCB 85 (BZ)		ND		0.0100	0.000316	ng/g
PCB 86 (BZ)		**0.000888**	**Q C J**	**0.0100**	**0.000323**	**ng/g**
PCB 87 (BZ)		**0.000888**	**Q C86 J**	**0.0100**	**0.000323**	**ng/g**
PCB 88 (BZ)		ND		0.0100	0.000389	ng/g
PCB 89 (BZ)		ND		0.0100	0.000422	ng/g
PCB 90 (BZ)		**0.00134**	**Q C J**	**0.0100**	**0.000329**	**ng/g**
PCB 91 (BZ)		ND		0.0100	0.000389	ng/g
PCB 92 (BZ)		ND		0.0100	0.000373	ng/g
PCB 93 (BZ)		ND		0.0100	0.000375	ng/g
PCB 94 (BZ)		ND		0.0100	0.000422	ng/g
PCB 95 (BZ)		**0.00187**	**Q J**	**0.0100**	**0.000397**	**ng/g**
PCB 96 (BZ)		ND		0.0100	0.000316	ng/g
PCB 97 (BZ)		**0.000888**	**Q C86 J**	**0.0100**	**0.000323**	**ng/g**
PCB 98 (BZ)		ND		0.0100	0.000363	ng/g
PCB 99 (BZ)		ND		0.0100	0.000384	ng/g
PCB 100 (BZ)		ND		0.0100	0.000375	ng/g
PCB 101 (BZ)		**0.00134**	**Q C90 J**	**0.0100**	**0.000329**	**ng/g**
PCB 102 (BZ)		ND		0.0100	0.000363	ng/g
PCB 103 (BZ)		ND		0.0100	0.000370	ng/g
PCB 104 (BZ)		ND		0.0100	0.000281	ng/g
PCB 105 (BZ)		ND		0.0100	0.000283	ng/g
PCB 106 (BZ)		ND		0.0100	0.000294	ng/g
PCB 107 (BZ)/109 (IUPAC)		ND		0.0100	0.000285	ng/g
PCB 108 (BZ)/107 (IUPAC)		ND		0.0100	0.000300	ng/g

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9-13-2010

RJ Lee Group Inc.

Sample ID: WA220620090005-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 008	Work Order #....:	LT3571AA	Matrix....:	SOLID
Date Sampled....:	06/15/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	**0.000888**	**Q C86 J**	**0.0100**	**0.000323**	**ng/g**
PCB 110 (BZ)	**0.00289**	**Q C J**	**0.0100**	**0.000279**	**ng/g**
PCB 111 (BZ)	ND		0.0100	0.000264	ng/g
PCB 112 (BZ)	ND		0.0100	0.000287	ng/g
PCB 113 (BZ)	**0.00134**	**Q C90 J**	**0.0100**	**0.000329**	**ng/g**
PCB 114 (BZ)	ND		0.0100	0.000261	ng/g
PCB 115 (BZ)	**0.00289**	**Q C110 J**	**0.0100**	**0.000279**	**ng/g**
PCB 116 (BZ)	ND		0.0100	0.000316	ng/g
PCB 117 (BZ)	ND		0.0100	0.000316	ng/g
PCB 118 (BZ)	**0.00174**	**Q J**	**0.0100**	**0.000278**	**ng/g**
PCB 119 (BZ)	**0.000888**	**Q C86 J**	**0.0100**	**0.000323**	**ng/g**
PCB 120 (BZ)	ND		0.0100	0.000272	ng/g
PCB 121 (BZ)	ND		0.0100	0.000274	ng/g
PCB 122 (BZ)	ND		0.0100	0.000320	ng/g
PCB 123 (BZ)	ND		0.0100	0.000293	ng/g
PCB 124 (BZ)	ND		0.0100	0.000300	ng/g
PCB 125 (BZ)	**0.000888**	**Q C86 J**	**0.0100**	**0.000323**	**ng/g**
PCB 126 (BZ)	ND		0.0100	0.000297	ng/g
PCB 127 (BZ)	ND		0.0100	0.000291	ng/g
PCB 128 (BZ)	**0.00384**	**C J**	**0.0100**	**0.000564**	**ng/g**
PCB 129 (BZ)	**0.0181**	**C**	**0.0100**	**0.000583**	**ng/g**
PCB 130 (BZ)	ND		0.0100	0.000752	ng/g
PCB 131 (BZ)	ND		0.0100	0.000771	ng/g
PCB 132 (BZ)	**0.00463**	**J**	**0.0100**	**0.000733**	**ng/g**
PCB 133 (BZ)	ND		0.0100	0.000707	ng/g
PCB 134 (BZ)	ND		0.0100	0.000753	ng/g
PCB 135 (BZ)	**0.00285**	**C J**	**0.0100**	**0.000651**	**ng/g**
PCB 136 (BZ)	**0.00292**	**J**	**0.0100**	**0.000478**	**ng/g**
PCB 137 (BZ)	ND		0.0100	0.000649	ng/g
PCB 138 (BZ)	**0.0181**	**C129**	**0.0100**	**0.000583**	**ng/g**
PCB 139 (BZ)	ND		0.0100	0.000645	ng/g
PCB 140 (BZ)	ND		0.0100	0.000645	ng/g
PCB 141 (BZ)	**0.000813**	**Q J**	**0.0100**	**0.000672**	**ng/g**
PCB 142 (BZ)	ND		0.0100	0.000741	ng/g
PCB 143 (BZ)	ND		0.0100	0.000753	ng/g
PCB 144 (BZ)	ND		0.0100	0.000604	ng/g

RJ Lee Group Inc.

Sample ID: WA220620090005-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 008	Work Order #....:	LT3571AA	Matrix....:	SOLID
Date Sampled....:	06/15/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0100	0.000457	ng/g
PCB 146 (BZ)	**0.00180**	**Q J**	**0.0100**	**0.000613**	**ng/g**
PCB 147 (BZ)	**0.0193**	**C**	**0.0100**	**0.000626**	**ng/g**
PCB 148 (BZ)	ND		0.0100	0.000639	ng/g
PCB 149 (BZ)	**0.0193**	**C147**	**0.0100**	**0.000626**	**ng/g**
PCB 150 (BZ)	ND		0.0100	0.000445	ng/g
PCB 151 (BZ)	**0.00285**	**C135 J**	**0.0100**	**0.000651**	**ng/g**
PCB 152 (BZ)	ND		0.0100	0.000454	ng/g
PCB 153 (BZ)	**0.00731**	**C J**	**0.0100**	**0.000504**	**ng/g**
PCB 154 (BZ)	ND		0.0100	0.000530	ng/g
PCB 155 (BZ)	ND		0.0100	0.000433	ng/g
PCB 156 (BZ)	ND		0.0100	0.000610	ng/g
PCB 157 (BZ)	ND		0.0100	0.000610	ng/g
PCB 158 (BZ)	**0.000906**	**Q J**	**0.0100**	**0.000460**	**ng/g**
PCB 159 (BZ)	ND		0.0100	0.000493	ng/g
PCB 160 (BZ)	**0.0181**	**C129**	**0.0100**	**0.000583**	**ng/g**
PCB 161 (BZ)	ND		0.0100	0.000490	ng/g
PCB 162 (BZ)	ND		0.0100	0.000487	ng/g
PCB 163 (BZ)	**0.0181**	**C129**	**0.0100**	**0.000583**	**ng/g**
PCB 164 (BZ)	**0.00179**	**Q J**	**0.0100**	**0.000513**	**ng/g**
PCB 165 (BZ)	ND		0.0100	0.000539	ng/g
PCB 166 (BZ)	**0.00384**	**C128 J**	**0.0100**	**0.000564**	**ng/g**
PCB 167 (BZ)	ND		0.0100	0.000373	ng/g
PCB 168 (BZ)	**0.00731**	**C153 J**	**0.0100**	**0.000504**	**ng/g**
PCB 169 (BZ)	ND		0.0100	0.000378	ng/g
PCB 170 (BZ)	**0.0167**		**0.0100**	**0.000670**	**ng/g**
PCB 171 (BZ)	**0.00311**	**Q C J**	**0.0100**	**0.000653**	**ng/g**
PCB 172 (BZ)	**0.00211**	**J**	**0.0100**	**0.000646**	**ng/g**
PCB 173 (BZ)	**0.00311**	**Q C171 J**	**0.0100**	**0.000653**	**ng/g**
PCB 174 (BZ)	**0.0132**		**0.0100**	**0.000605**	**ng/g**
PCB 175 (BZ)	ND		0.0100	0.000581	ng/g
PCB 176 (BZ)	**0.000907**	**Q J**	**0.0100**	**0.000443**	**ng/g**
PCB 177 (BZ)	**0.00858**	**J**	**0.0100**	**0.000620**	**ng/g**
PCB 178 (BZ)	**0.00178**	**Q J**	**0.0100**	**0.000628**	**ng/g**
PCB 179 (BZ)	**0.00528**	**J**	**0.0100**	**0.000467**	**ng/g**
PCB 180 (BZ)	**0.0296**	**C**	**0.0100**	**0.000493**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA220620090005-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 008	**Work Order #....:**	LT3571AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000581	ng/g
PCB 182 (BZ)	ND		0.0100	0.000564	ng/g
PCB 183 (BZ)	**0.00771**	**C J**	**0.0100**	**0.000577**	**ng/g**
PCB 184 (BZ)	ND		0.0100	0.000479	ng/g
PCB 185 (BZ)	**0.00771**	**C183 J**	**0.0100**	**0.000577**	**ng/g**
PCB 186 (BZ)	ND		0.0100	0.000465	ng/g
PCB 187 (BZ)	**0.0168**	**Q**	**0.0100**	**0.000540**	**ng/g**
PCB 188 (BZ)	ND		0.0100	0.000417	ng/g
PCB 189 (BZ)	ND		0.0100	0.000419	ng/g
PCB 190 (BZ)	**0.00118**	**J**	**0.0100**	**0.000450**	**ng/g**
PCB 191 (BZ)	ND		0.0100	0.000442	ng/g
PCB 192 (BZ)	ND		0.0100	0.000494	ng/g
PCB 193 (BZ)	**0.0296**	**C180**	**0.0100**	**0.000493**	**ng/g**
PCB 194 (BZ)	**0.00735**	**J**	**0.0100**	**0.000384**	**ng/g**
PCB 195 (BZ)	**0.00182**	**Q J**	**0.0100**	**0.000417**	**ng/g**
PCB 196 (BZ)	**0.00334**	**J**	**0.0100**	**0.000466**	**ng/g**
PCB 197 (BZ)	ND		0.0100	0.000347	ng/g
PCB 198 (BZ)	**0.00591**	**C J**	**0.0100**	**0.000481**	**ng/g**
PCB 201 (BZ)/199 (IUPAC)	**0.00591**	**C198 J**	**0.0100**	**0.000481**	**ng/g**
PCB 199 (BZ)/200 (IUPAC)	ND		0.0100	0.000340	ng/g
PCB 200 (BZ)/201 (IUPAC)	**0.000500**	**Q J**	**0.0100**	**0.000328**	**ng/g**
PCB 202 (BZ)	ND		0.0100	0.000370	ng/g
PCB 203 (BZ)	**0.00269**	**Q J**	**0.0100**	**0.000429**	**ng/g**
PCB 204 (BZ)	ND		0.0100	0.000360	ng/g
PCB 205 (BZ)	ND		0.0100	0.000324	ng/g
PCB 206 (BZ)	**0.00200**	**J**	**0.0100**	**0.000282**	**ng/g**
PCB 207 (BZ)	ND		0.0100	0.000206	ng/g
PCB 208 (BZ)	**0.000614**	**J**	**0.0100**	**0.000219**	**ng/g**
PCB 209 (BZ)	**0.00698**	**J**	**0.0100**	**0.000428**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA220620090005-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 008	**Work Order #....:**	LT3571AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	65		30 - 140
13C12-PCB 3	56		30 - 140
13C12-PCB 4	82		30 - 140
13C12-PCB 15	70		30 - 140
13C12-PCB 19	76		30 - 140
13C12-PCB 37	75		30 - 140
13C12-PCB 54	78		30 - 140
13C12-PCB 77	72		30 - 140
13C12-PCB 81	74		30 - 140
13C12-PCB 104	86		30 - 140
13C12-PCB 105	82		30 - 140
13C12-PCB 114	85		30 - 140
13C12-PCB 118	83		30 - 140
13C12-PCB 123	83		30 - 140
13C12-PCB 126	84		30 - 140
13C12-PCB 155	96		30 - 140
13C12-PCB 156	84	C	30 - 140
13C12-PCB 157	84	C	30 - 140
13C12-PCB 167	81		30 - 140
13C12-PCB 169	81		30 - 140
13C12-PCB 170	92		30 - 140
13C12-PCB 188	96		30 - 140
13C12-PCB 189	85		30 - 140
13C12-PCB 202	112		30 - 140
13C12-PCB 205	95		30 - 140
13C12-PCB 206	103		30 - 140
13C12-PCB 208	96		30 - 140
13C12-PCB 209	100		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	81	40 - 125
13C12-PCB 111	86	40 - 125
13C12-PCB 178	85	40 - 125

RJ Lee Group Inc.

Sample ID: WA220620090005-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 008	**Work Order #....:**	LT3571AA	**Matrix....:**	SOLID
Date Sampled....:	06/15/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA060820090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 009	Work Order #....:	LT3591AA	Matrix....:	WATER
Date Sampled....:	08/03/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	550 mL	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)	0.073U	**0.00475**	**Q B J**	**0.0727**	**0.000548**	**ng/L**
PCB 2 (BZ)		**0.00328**	**Q J**	**0.0727**	**0.000662**	**ng/L**
PCB 3 (BZ)		ND		0.0727	0.000822	ng/L
PCB 4 (BZ)	0.11U	**0.0118**	**Q B J**	**0.109**	**0.00649**	**ng/L**
PCB 5 (BZ)		ND		0.0727	0.00550	ng/L
PCB 6 (BZ)		**0.00322**	**Q J**	**0.0727**	**0.00517**	**ng/L**
PCB 7 (BZ)		ND		0.0727	0.00531	ng/L
PCB 8 (BZ)	0.11U	**0.0118**	**Q B J**	**0.109**	**0.00506**	**ng/L**
PCB 9 (BZ)		ND		0.0727	0.00534	ng/L
PCB 10 (BZ)		ND		0.0727	0.00574	ng/L
PCB 11 (BZ)	0.11U	**0.0239**	**Q B J**	**0.109**	**0.00509**	**ng/L**
PCB 12 (BZ)		ND		0.109	0.00521	ng/L
PCB 13 (BZ)		ND		0.109	0.00521	ng/L
PCB 14 (BZ)		ND		0.0727	0.00450	ng/L
PCB 15 (BZ)	0.073U	**0.00339**	**Q B J**	**0.0727**	**0.00577**	**ng/L**
PCB 16 (BZ)	0.073U	**0.00590**	**B J**	**0.0727**	**0.00259**	**ng/L**
PCB 17 (BZ)	0.073U	**0.00560**	**B J**	**0.0727**	**0.00216**	**ng/L**
PCB 18 (BZ)	0.11U	**0.0143**	**B C J**	**0.109**	**0.00191**	**ng/L**
PCB 19 (BZ)		ND		0.0727	0.00265	ng/L
PCB 20 (BZ)	0.073U	**0.0220**	**B C J**	**0.0727**	**0.00147**	**ng/L**
PCB 21 (BZ)	0.073U	**0.00571**	**B C J**	**0.0727**	**0.00147**	**ng/L**
PCB 22 (BZ)	0.073U	**0.00448**	**Q B J**	**0.0727**	**0.00149**	**ng/L**
PCB 23 (BZ)		ND		0.0727	0.00152	ng/L
PCB 24 (BZ)		ND		0.0727	0.00181	ng/L
PCB 25 (BZ)		ND		0.0727	0.00136	ng/L
PCB 26 (BZ)		ND		0.0727	0.00144	ng/L
PCB 27 (BZ)		ND		0.0727	0.00156	ng/L
PCB 28 (BZ)	0.073U	**0.0220**	**B C20 J**	**0.0727**	**0.00147**	**ng/L**
PCB 29 (BZ)		ND		0.0727	0.00144	ng/L
PCB 30 (BZ)	0.11U	**0.0143**	**B C18 J**	**0.109**	**0.00191**	**ng/L**
PCB 31 (BZ)	0.073U	**0.00685**	**Q B J**	**0.0727**	**0.00143**	**ng/L**
PCB 32 (BZ)	0.073U	**0.00521**	**Q B J**	**0.0727**	**0.00153**	**ng/L**
PCB 33 (BZ)	0.073U	**0.00571**	**B C21 J**	**0.0727**	**0.00147**	**ng/L**
PCB 34 (BZ)		ND		0.0727	0.00150	ng/L
PCB 35 (BZ)		ND		0.0727	0.00154	ng/L
PCB 36 (BZ)		ND		0.0727	0.00149	ng/L

RJ Lee Group Inc.

Sample ID: WA060820090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 009	**Work Order #....:**	LT3591AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	550 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0727	0.00153	ng/L
PCB 38 (BZ)		ND		0.0727	0.00157	ng/L
PCB 39 (BZ)		ND		0.0727	0.00140	ng/L
PCB 40 (BZ)		**0.00279**	**Q C J**	**0.0727**	**0.00196**	**ng/L**
PCB 41 (BZ)		**0.00279**	**Q C40 J**	**0.0727**	**0.00196**	**ng/L**
PCB 42 (BZ)		ND		0.0727	0.00200	ng/L
PCB 43 (BZ)		ND		0.0727	0.00183	ng/L
PCB 44 (BZ)	0.073U	**0.0166**	**Q B C J**	**0.0727**	**0.00175**	**ng/L**
PCB 45 (BZ)	0.073U	**0.00406**	**Q B C J**	**0.0727**	**0.00203**	**ng/L**
PCB 46 (BZ)		ND		0.0727	0.00240	ng/L
PCB 47 (BZ)	0.073U	**0.0166**	**Q B C44 J**	**0.0727**	**0.00175**	**ng/L**
PCB 48 (BZ)		ND		0.0727	0.00195	ng/L
PCB 49 (BZ)	0.073U	**0.00431**	**Q B C J**	**0.0727**	**0.00162**	**ng/L**
PCB 50 (BZ)		ND		0.0727	0.00189	ng/L
PCB 51 (BZ)	0.073U	**0.00406**	**Q B C45 J**	**0.0727**	**0.00203**	**ng/L**
PCB 52 (BZ)	0.073U	**0.0112**	**B J**	**0.0727**	**0.00189**	**ng/L**
PCB 53 (BZ)		ND		0.0727	0.00189	ng/L
PCB 54 (BZ)		ND		0.0727	0.00210	ng/L
PCB 55 (BZ)		ND		0.0727	0.00152	ng/L
PCB 56 (BZ)		ND		0.0727	0.00143	ng/L
PCB 57 (BZ)		ND		0.0727	0.00145	ng/L
PCB 58 (BZ)		ND		0.0727	0.00144	ng/L
PCB 59 (BZ)		ND		0.0727	0.00140	ng/L
PCB 60 (BZ)		ND		0.0727	0.00147	ng/L
PCB 61 (BZ)	0.073U	**0.00608**	**Q B C J**	**0.0727**	**0.00140**	**ng/L**
PCB 62 (BZ)		ND		0.0727	0.00140	ng/L
PCB 63 (BZ)		ND		0.0727	0.00134	ng/L
PCB 64 (BZ)	0.073U	**0.00260**	**Q B J**	**0.0727**	**0.00132**	**ng/L**
PCB 65 (BZ)	0.073U	**0.0166**	**Q B C44 J**	**0.0727**	**0.00175**	**ng/L**
PCB 66 (BZ)	0.073U	**0.00371**	**Q B J**	**0.0727**	**0.00139**	**ng/L**
PCB 67 (BZ)		ND		0.0727	0.00130	ng/L
PCB 68 (BZ)		**0.00527**	**J**	**0.0727**	**0.00131**	**ng/L**
PCB 69 (BZ)	0.073U	**0.00431**	**Q B C49 J**	**0.0727**	**0.00162**	**ng/L**
PCB 70 (BZ)	0.073U	**0.00608**	**Q B C61 J**	**0.0727**	**0.00140**	**ng/L**
PCB 71 (BZ)		**0.00279**	**Q C40 J**	**0.0727**	**0.00196**	**ng/L**
PCB 72 (BZ)		ND		0.0727	0.00141	ng/L

RJ Lee Group Inc.

Sample ID: WA060820090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 009	**Work Order #....:**	LT3591AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	550 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0727	0.00183	ng/L
PCB 74 (BZ)	0.073U	**0.00608**	**Q B C61 J**	**0.0727**	**0.00140**	**ng/L**
PCB 75 (BZ)		ND		0.0727	0.00140	ng/L
PCB 76 (BZ)	0.073U	**0.00608**	**Q B C61 J**	**0.0727**	**0.00140**	**ng/L**
PCB 77 (BZ)		ND		0.0727	0.00134	ng/L
PCB 78 (BZ)		ND		0.0727	0.00149	ng/L
PCB 79 (BZ)		ND		0.0727	0.00131	ng/L
PCB 80 (BZ)		ND		0.0727	0.00128	ng/L
PCB 81 (BZ)		ND		0.0727	0.00137	ng/L
PCB 82 (BZ)		ND		0.0727	0.00171	ng/L
PCB 83 (BZ)		ND		0.0727	0.00144	ng/L
PCB 84 (BZ)		ND		0.0727	0.00164	ng/L
PCB 85 (BZ)		ND		0.0727	0.00119	ng/L
PCB 86 (BZ)		ND		0.0727	0.00121	ng/L
PCB 87 (BZ)		ND		0.0727	0.00121	ng/L
PCB 88 (BZ)		ND		0.0727	0.00146	ng/L
PCB 89 (BZ)		ND		0.0727	0.00158	ng/L
PCB 90 (BZ)		**0.00301**	**Q C J**	**0.0727**	**0.00123**	**ng/L**
PCB 91 (BZ)		ND		0.0727	0.00146	ng/L
PCB 92 (BZ)		ND		0.0727	0.00140	ng/L
PCB 93 (BZ)		ND		0.0727	0.00141	ng/L
PCB 94 (BZ)		ND		0.0727	0.00158	ng/L
PCB 95 (BZ)		ND		0.0727	0.00149	ng/L
PCB 96 (BZ)		ND		0.0727	0.00118	ng/L
PCB 97 (BZ)		ND		0.0727	0.00121	ng/L
PCB 98 (BZ)		ND		0.0727	0.00136	ng/L
PCB 99 (BZ)		ND		0.0727	0.00144	ng/L
PCB 100 (BZ)		ND		0.0727	0.00141	ng/L
PCB 101 (BZ)		**0.00301**	**Q C90 J**	**0.0727**	**0.00123**	**ng/L**
PCB 102 (BZ)		ND		0.0727	0.00136	ng/L
PCB 103 (BZ)		ND		0.0727	0.00139	ng/L
PCB 104 (BZ)		ND		0.0727	0.00106	ng/L
PCB 105 (BZ)		ND		0.0727	0.000905	ng/L
PCB 106 (BZ)		ND		0.0727	0.000970	ng/L
PCB 107 (BZ)/109 (IUPAC		ND		0.0727	0.000941	ng/L
PCB 108 (BZ)/107 (IUPAC		ND		0.0727	0.000989	ng/L

RJ Lee Group Inc.

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Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 009	**Work Order #....:**	LT3591AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	550 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	ND		0.0727	0.00121	ng/L
PCB 110 (BZ)	**0.00364**	**Q C J**	**0.0727**	**0.00105**	**ng/L**
PCB 111 (BZ)	ND		0.0727	0.000992	ng/L
PCB 112 (BZ)	ND		0.0727	0.00108	ng/L
PCB 113 (BZ)	**0.00301**	**Q C90 J**	**0.0727**	**0.00123**	**ng/L**
PCB 114 (BZ)	ND		0.0727	0.000878	ng/L
PCB 115 (BZ)	**0.00364**	**Q C110 J**	**0.0727**	**0.00105**	**ng/L**
PCB 116 (BZ)	ND		0.0727	0.00119	ng/L
PCB 117 (BZ)	ND		0.0727	0.00119	ng/L
PCB 118 (BZ)	ND		0.0727	0.000928	ng/L
PCB 119 (BZ)	ND		0.0727	0.00121	ng/L
PCB 120 (BZ)	ND		0.0727	0.00102	ng/L
PCB 121 (BZ)	ND		0.0727	0.00103	ng/L
PCB 122 (BZ)	ND		0.0727	0.00106	ng/L
PCB 123 (BZ)	ND		0.0727	0.000970	ng/L
PCB 124 (BZ)	ND		0.0727	0.000989	ng/L
PCB 125 (BZ)	ND		0.0727	0.00121	ng/L
PCB 126 (BZ)	ND		0.0727	0.000974	ng/L
PCB 127 (BZ)	ND		0.0727	0.000959	ng/L
PCB 128 (BZ)	ND		0.0727	0.00123	ng/L
PCB 129 (BZ)	**0.00421**	**Q C J**	**0.0727**	**0.00127**	**ng/L**
PCB 130 (BZ)	ND		0.0727	0.00164	ng/L
PCB 131 (BZ)	ND		0.0727	0.00168	ng/L
PCB 132 (BZ)	ND		0.0727	0.00160	ng/L
PCB 133 (BZ)	ND		0.0727	0.00154	ng/L
PCB 134 (BZ)	ND		0.0727	0.00164	ng/L
PCB 135 (BZ)	ND		0.0727	0.00168	ng/L
PCB 136 (BZ)	ND		0.0727	0.00124	ng/L
PCB 137 (BZ)	ND		0.0727	0.00142	ng/L
PCB 138 (BZ)	**0.00421**	**Q C129 J**	**0.0727**	**0.00127**	**ng/L**
PCB 139 (BZ)	ND		0.0727	0.00141	ng/L
PCB 140 (BZ)	ND		0.0727	0.00141	ng/L
PCB 141 (BZ)	ND		0.0727	0.00147	ng/L
PCB 142 (BZ)	ND		0.0727	0.00162	ng/L
PCB 143 (BZ)	ND		0.0727	0.00164	ng/L
PCB 144 (BZ)	ND		0.0727	0.00156	ng/L

RJ Lee Group Inc.

Sample ID: WA060820090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 009	**Work Order #....:**	LT3591AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	550 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0727	0.00118	ng/L
PCB 146 (BZ)	ND		0.0727	0.00134	ng/L
PCB 147 (BZ)	**0.00411**	**C J**	**0.0727**	**0.00137**	**ng/L**
PCB 148 (BZ)	ND		0.0727	0.00165	ng/L
PCB 149 (BZ)	**0.00411**	**C147 J**	**0.0727**	**0.00137**	**ng/L**
PCB 150 (BZ)	ND		0.0727	0.00115	ng/L
PCB 151 (BZ)	ND		0.0727	0.00168	ng/L
PCB 152 (BZ)	ND		0.0727	0.00117	ng/L
PCB 153 (BZ)	**0.00464**	**Q C J**	**0.0727**	**0.00110**	**ng/L**
PCB 154 (BZ)	ND		0.0727	0.00137	ng/L
PCB 155 (BZ)	ND		0.0727	0.00112	ng/L
PCB 156 (BZ)	ND		0.0727	0.00129	ng/L
PCB 157 (BZ)	ND		0.0727	0.00129	ng/L
PCB 158 (BZ)	ND		0.0727	0.00100	ng/L
PCB 159 (BZ)	ND		0.0727	0.00108	ng/L
PCB 160 (BZ)	**0.00421**	**Q C129 J**	**0.0727**	**0.00127**	**ng/L**
PCB 161 (BZ)	ND		0.0727	0.00107	ng/L
PCB 162 (BZ)	ND		0.0727	0.00106	ng/L
PCB 163 (BZ)	**0.00421**	**Q C129 J**	**0.0727**	**0.00127**	**ng/L**
PCB 164 (BZ)	ND		0.0727	0.00112	ng/L
PCB 165 (BZ)	ND		0.0727	0.00118	ng/L
PCB 166 (BZ)	ND		0.0727	0.00123	ng/L
PCB 167 (BZ)	ND		0.0727	0.000802	ng/L
PCB 168 (BZ)	**0.00464**	**Q C153 J**	**0.0727**	**0.00110**	**ng/L**
PCB 169 (BZ)	ND		0.0727	0.000881	ng/L
PCB 170 (BZ)	ND		0.0727	0.00143	ng/L
PCB 171 (BZ)	ND		0.0727	0.00143	ng/L
PCB 172 (BZ)	ND		0.0727	0.00142	ng/L
PCB 173 (BZ)	ND		0.0727	0.00143	ng/L
PCB 174 (BZ)	ND		0.0727	0.00133	ng/L
PCB 175 (BZ)	ND		0.0727	0.00127	ng/L
PCB 176 (BZ)	ND		0.0727	0.000969	ng/L
PCB 177 (BZ)	ND		0.0727	0.00136	ng/L
PCB 178 (BZ)	ND		0.0727	0.00138	ng/L
PCB 179 (BZ)	ND		0.0727	0.00102	ng/L
PCB 180 (BZ)	**0.00187**	**Q C J**	**0.0727**	**0.00108**	**ng/L**

RJ Lee Group Inc.

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Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 009	**Work Order #....:**	LT3591AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	550 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0727	0.00127	ng/L
PCB 182 (BZ)	ND		0.0727	0.00124	ng/L
PCB 183 (BZ)	ND		0.0727	0.00126	ng/L
PCB 184 (BZ)	ND		0.0727	0.00105	ng/L
PCB 185 (BZ)	ND		0.0727	0.00126	ng/L
PCB 186 (BZ)	ND		0.0727	0.00102	ng/L
PCB 187 (BZ)	ND		0.0727	0.00118	ng/L
PCB 188 (BZ)	ND		0.0727	0.000928	ng/L
PCB 189 (BZ)	ND		0.0727	0.000825	ng/L
PCB 190 (BZ)	ND		0.0727	0.000985	ng/L
PCB 191 (BZ)	ND		0.0727	0.000968	ng/L
PCB 192 (BZ)	ND		0.0727	0.00108	ng/L
PCB 193 (BZ)	**0.00187**	**Q C180 J**	**0.0727**	**0.00108**	**ng/L**
PCB 194 (BZ)	ND		0.0727	0.000710	ng/L
PCB 195 (BZ)	ND		0.0727	0.000770	ng/L
PCB 196 (BZ)	ND		0.0727	0.000995	ng/L
PCB 197 (BZ)	ND		0.0727	0.000741	ng/L
PCB 198 (BZ)	ND		0.0727	0.00103	ng/L
PCB 201 (BZ)/199 (IUPAC)	ND		0.0727	0.00103	ng/L
PCB 199 (BZ)/200 (IUPAC)	ND		0.0727	0.000727	ng/L
PCB 200 (BZ)/201 (IUPAC)	ND		0.0727	0.000702	ng/L
PCB 202 (BZ)	ND		0.0727	0.000791	ng/L
PCB 203 (BZ)	ND		0.0727	0.000917	ng/L
PCB 204 (BZ)	ND		0.0727	0.000770	ng/L
PCB 205 (BZ)	ND		0.0727	0.000598	ng/L
PCB 206 (BZ)	ND		0.0727	0.00114	ng/L
PCB 207 (BZ)	ND		0.0727	0.000852	ng/L
PCB 208 (BZ)	ND		0.0727	0.000919	ng/L
PCB 209 (BZ)	ND		0.0727	0.000835	ng/L

RJ Lee Group Inc.

Sample ID: WA060820090001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 009	**Work Order #....:**	LT3591AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	550 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	72		30 - 140
13C12-PCB 3	66		30 - 140
13C12-PCB 4	87		30 - 140
13C12-PCB 15	82		30 - 140
13C12-PCB 19	89		30 - 140
13C12-PCB 37	84		30 - 140
13C12-PCB 54	80		30 - 140
13C12-PCB 77	85		30 - 140
13C12-PCB 81	83		30 - 140
13C12-PCB 104	86		30 - 140
13C12-PCB 105	90		30 - 140
13C12-PCB 114	90		30 - 140
13C12-PCB 118	86		30 - 140
13C12-PCB 123	87		30 - 140
13C12-PCB 126	90		30 - 140
13C12-PCB 155	96		30 - 140
13C12-PCB 156	95	C	30 - 140
13C12-PCB 157	95	C	30 - 140
13C12-PCB 167	90		30 - 140
13C12-PCB 169	83		30 - 140
13C12-PCB 170	101		30 - 140
13C12-PCB 188	101		30 - 140
13C12-PCB 189	98		30 - 140
13C12-PCB 202	116		30 - 140
13C12-PCB 205	106		30 - 140
13C12-PCB 206	110		30 - 140
13C12-PCB 208	101		30 - 140
13C12-PCB 209	105		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	85	40 - 125
13C12-PCB 111	92	40 - 125
13C12-PCB 178	87	40 - 125

RJ Lee Group Inc.

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Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 009	**Work Order #....:**	LT3591AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	550 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA060820090001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 010	Work Order #....:	LT36A1AA	Matrix....:	WATER
Date Sampled....:	08/03/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	340 mL	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)	0.12U	**0.00589**	**Q B J**	**0.118**	**0.000977**	**ng/L**
PCB 2 (BZ)		ND		0.118	0.00120	ng/L
PCB 3 (BZ)		ND		0.118	0.00152	ng/L
PCB 4 (BZ)		ND		0.176	0.0138	ng/L
PCB 5 (BZ)		ND		0.118	0.0115	ng/L
PCB 6 (BZ)		ND		0.118	0.0108	ng/L
PCB 7 (BZ)		ND		0.118	0.0111	ng/L
PCB 8 (BZ)	0.18U	**0.0150**	**Q B J**	**0.176**	**0.0106**	**ng/L**
PCB 9 (BZ)		ND		0.118	0.0112	ng/L
PCB 10 (BZ)		ND		0.118	0.0120	ng/L
PCB 11 (BZ)	0.18U	**0.0329**	**Q B J**	**0.176**	**0.0107**	**ng/L**
PCB 12 (BZ)		ND		0.176	0.0109	ng/L
PCB 13 (BZ)		ND		0.176	0.0109	ng/L
PCB 14 (BZ)		ND		0.118	0.00942	ng/L
PCB 15 (BZ)		ND		0.118	0.0119	ng/L
PCB 16 (BZ)		ND		0.118	0.00516	ng/L
PCB 17 (BZ)		ND		0.118	0.00430	ng/L
PCB 18 (BZ)	0.18U	**0.0182**	**Q B C J**	**0.176**	**0.00381**	**ng/L**
PCB 19 (BZ)		ND		0.118	0.00527	ng/L
PCB 20 (BZ)	0.12U	**0.0308**	**B C J**	**0.118**	**0.00284**	**ng/L**
PCB 21 (BZ)	0.12U	**0.00755**	**B C J**	**0.118**	**0.00285**	**ng/L**
PCB 22 (BZ)	0.12U	**0.00830**	**B J**	**0.118**	**0.00290**	**ng/L**
PCB 23 (BZ)		ND		0.118	0.00295	ng/L
PCB 24 (BZ)		ND		0.118	0.00360	ng/L
PCB 25 (BZ)		ND		0.118	0.00264	ng/L
PCB 26 (BZ)		ND		0.118	0.00280	ng/L
PCB 27 (BZ)		ND		0.118	0.00311	ng/L
PCB 28 (BZ)	0.12U	**0.0308**	**B C20 J**	**0.118**	**0.00284**	**ng/L**
PCB 29 (BZ)		ND		0.118	0.00280	ng/L
PCB 30 (BZ)	0.18U	**0.0182**	**Q B C18 J**	**0.176**	**0.00381**	**ng/L**
PCB 31 (BZ)	0.12U	**0.0123**	**Q B J**	**0.118**	**0.00278**	**ng/L**
PCB 32 (BZ)	0.12U	**0.0110**	**Q B J**	**0.118**	**0.00305**	**ng/L**
PCB 33 (BZ)	0.12U	**0.00755**	**B C21 J**	**0.118**	**0.00285**	**ng/L**
PCB 34 (BZ)		ND		0.118	0.00291	ng/L
PCB 35 (BZ)		ND		0.118	0.00299	ng/L
PCB 36 (BZ)		ND		0.118	0.00289	ng/L

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA060820090001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 010	**Work Order #....:**	LT36A1AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	340 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.118	0.00296	ng/L
PCB 38 (BZ)		ND		0.118	0.00305	ng/L
PCB 39 (BZ)		ND		0.118	0.00271	ng/L
PCB 40 (BZ)		ND		0.118	0.00370	ng/L
PCB 41 (BZ)		ND		0.118	0.00370	ng/L
PCB 42 (BZ)		ND		0.118	0.00377	ng/L
PCB 43 (BZ)		ND		0.118	0.00346	ng/L
PCB 44 (BZ)		**0.191**	**B C**	**0.118**	**0.00331**	**ng/L**
PCB 45 (BZ)	0.12U	**0.0204**	**B C J**	**0.118**	**0.00384**	**ng/L**
PCB 46 (BZ)		ND		0.118	0.00454	ng/L
PCB 47 (BZ)		**0.191**	**B C44**	**0.118**	**0.00331**	**ng/L**
PCB 48 (BZ)		ND		0.118	0.00367	ng/L
PCB 49 (BZ)	0.12U	**0.00875**	**Q B C J**	**0.118**	**0.00305**	**ng/L**
PCB 50 (BZ)		ND		0.118	0.00356	ng/L
PCB 51 (BZ)	0.12U	**0.0204**	**B C45 J**	**0.118**	**0.00384**	**ng/L**
PCB 52 (BZ)	0.12U	**0.0150**	**B J**	**0.118**	**0.00357**	**ng/L**
PCB 53 (BZ)		ND		0.118	0.00356	ng/L
PCB 54 (BZ)		ND		0.118	0.00435	ng/L
PCB 55 (BZ)		ND		0.118	0.00287	ng/L
PCB 56 (BZ)		ND		0.118	0.00270	ng/L
PCB 57 (BZ)		ND		0.118	0.00273	ng/L
PCB 58 (BZ)		ND		0.118	0.00272	ng/L
PCB 59 (BZ)		ND		0.118	0.00264	ng/L
PCB 60 (BZ)		ND		0.118	0.00278	ng/L
PCB 61 (BZ)	0.12U	**0.0119**	**B C J**	**0.118**	**0.00263**	**ng/L**
PCB 62 (BZ)		ND		0.118	0.00264	ng/L
PCB 63 (BZ)		ND		0.118	0.00253	ng/L
PCB 64 (BZ)		ND		0.118	0.00250	ng/L
PCB 65 (BZ)		**0.191**	**B C44**	**0.118**	**0.00331**	**ng/L**
PCB 66 (BZ)		ND		0.118	0.00262	ng/L
PCB 67 (BZ)		ND		0.118	0.00246	ng/L
PCB 68 (BZ)		**0.0182**	**Q J**	**0.118**	**0.00248**	**ng/L**
PCB 69 (BZ)	0.12U	**0.00875**	**Q B C49 J**	**0.118**	**0.00305**	**ng/L**
PCB 70 (BZ)	0.12U	**0.0119**	**B C61 J**	**0.118**	**0.00263**	**ng/L**
PCB 71 (BZ)		ND		0.118	0.00370	ng/L
PCB 72 (BZ)		ND		0.118	0.00266	ng/L

RJ Lee Group Inc.

Sample ID: WA060820090001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 010	**Work Order #....:**	LT36A1AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	340 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.118	0.00346	ng/L
PCB 74 (BZ)	0.12U	**0.0119**	**B C61 J**	**0.118**	**0.00263**	**ng/L**
PCB 75 (BZ)		ND		0.118	0.00264	ng/L
PCB 76 (BZ)	0.12U	**0.0119**	**B C61 J**	**0.118**	**0.00263**	**ng/L**
PCB 77 (BZ)		ND		0.118	0.00258	ng/L
PCB 78 (BZ)		ND		0.118	0.00282	ng/L
PCB 79 (BZ)		ND		0.118	0.00248	ng/L
PCB 80 (BZ)		ND		0.118	0.00242	ng/L
PCB 81 (BZ)		ND		0.118	0.00254	ng/L
PCB 82 (BZ)		ND		0.118	0.00320	ng/L
PCB 83 (BZ)		**0.00532**	**Q C J**	**0.118**	**0.00269**	**ng/L**
PCB 84 (BZ)		ND		0.118	0.00305	ng/L
PCB 85 (BZ)		ND		0.118	0.00221	ng/L
PCB 86 (BZ)		ND		0.118	0.00226	ng/L
PCB 87 (BZ)		ND		0.118	0.00226	ng/L
PCB 88 (BZ)		ND		0.118	0.00272	ng/L
PCB 89 (BZ)		ND		0.118	0.00296	ng/L
PCB 90 (BZ)		**0.00404**	**Q C J**	**0.118**	**0.00230**	**ng/L**
PCB 91 (BZ)		ND		0.118	0.00272	ng/L
PCB 92 (BZ)		ND		0.118	0.00261	ng/L
PCB 93 (BZ)		ND		0.118	0.00263	ng/L
PCB 94 (BZ)		ND		0.118	0.00295	ng/L
PCB 95 (BZ)		ND		0.118	0.00278	ng/L
PCB 96 (BZ)		ND		0.118	0.00221	ng/L
PCB 97 (BZ)		ND		0.118	0.00226	ng/L
PCB 98 (BZ)		ND		0.118	0.00254	ng/L
PCB 99 (BZ)		**0.00532**	**Q C83 J**	**0.118**	**0.00269**	**ng/L**
PCB 100 (BZ)		ND		0.118	0.00263	ng/L
PCB 101 (BZ)		**0.00404**	**Q C90 J**	**0.118**	**0.00230**	**ng/L**
PCB 102 (BZ)		ND		0.118	0.00254	ng/L
PCB 103 (BZ)		ND		0.118	0.00259	ng/L
PCB 104 (BZ)		ND		0.118	0.00197	ng/L
PCB 105 (BZ)		ND		0.118	0.00163	ng/L
PCB 106 (BZ)		ND		0.118	0.00176	ng/L
PCB 107 (BZ)/109 (IUPAC		ND		0.118	0.00171	ng/L
PCB 108 (BZ)/107 (IUPAC		ND		0.118	0.00180	ng/L

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA060820090001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 010	**Work Order #....:**	LT36A1AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	340 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	ND		0.118	0.00226	ng/L
PCB 110 (BZ)	**0.00676**	**Q C J**	**0.118**	**0.00195**	**ng/L**
PCB 111 (BZ)	ND		0.118	0.00185	ng/L
PCB 112 (BZ)	ND		0.118	0.00201	ng/L
PCB 113 (BZ)	**0.00404**	**Q C90 J**	**0.118**	**0.00230**	**ng/L**
PCB 114 (BZ)	ND		0.118	0.00160	ng/L
PCB 115 (BZ)	**0.00676**	**Q C110 J**	**0.118**	**0.00195**	**ng/L**
PCB 116 (BZ)	ND		0.118	0.00221	ng/L
PCB 117 (BZ)	ND		0.118	0.00221	ng/L
PCB 118 (BZ)	**0.00641**	**J**	**0.118**	**0.00166**	**ng/L**
PCB 119 (BZ)	ND		0.118	0.00226	ng/L
PCB 120 (BZ)	ND		0.118	0.00190	ng/L
PCB 121 (BZ)	ND		0.118	0.00192	ng/L
PCB 122 (BZ)	ND		0.118	0.00192	ng/L
PCB 123 (BZ)	ND		0.118	0.00181	ng/L
PCB 124 (BZ)	ND		0.118	0.00180	ng/L
PCB 125 (BZ)	ND		0.118	0.00226	ng/L
PCB 126 (BZ)	ND		0.118	0.00176	ng/L
PCB 127 (BZ)	ND		0.118	0.00174	ng/L
PCB 128 (BZ)	ND		0.118	0.00239	ng/L
PCB 129 (BZ)	**0.00448**	**Q C J**	**0.118**	**0.00247**	**ng/L**
PCB 130 (BZ)	ND		0.118	0.00319	ng/L
PCB 131 (BZ)	ND		0.118	0.00327	ng/L
PCB 132 (BZ)	ND		0.118	0.00311	ng/L
PCB 133 (BZ)	ND		0.118	0.00300	ng/L
PCB 134 (BZ)	ND		0.118	0.00319	ng/L
PCB 135 (BZ)	ND		0.118	0.00331	ng/L
PCB 136 (BZ)	ND		0.118	0.00243	ng/L
PCB 137 (BZ)	ND		0.118	0.00275	ng/L
PCB 138 (BZ)	**0.00448**	**Q C129 J**	**0.118**	**0.00247**	**ng/L**
PCB 139 (BZ)	ND		0.118	0.00274	ng/L
PCB 140 (BZ)	ND		0.118	0.00274	ng/L
PCB 141 (BZ)	ND		0.118	0.00285	ng/L
PCB 142 (BZ)	ND		0.118	0.00314	ng/L
PCB 143 (BZ)	ND		0.118	0.00319	ng/L
PCB 144 (BZ)	ND		0.118	0.00307	ng/L

RJ Lee Group Inc.

Sample ID: WA060820090001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 010	**Work Order #....:**	LT36A1AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	340 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.118	0.00232	ng/L
PCB 146 (BZ)	ND		0.118	0.00260	ng/L
PCB 147 (BZ)	ND		0.118	0.00266	ng/L
PCB 148 (BZ)	ND		0.118	0.00325	ng/L
PCB 149 (BZ)	ND		0.118	0.00266	ng/L
PCB 150 (BZ)	ND		0.118	0.00226	ng/L
PCB 151 (BZ)	ND		0.118	0.00331	ng/L
PCB 152 (BZ)	ND		0.118	0.00231	ng/L
PCB 153 (BZ)	**0.00459**	**C J**	**0.118**	**0.00214**	**ng/L**
PCB 154 (BZ)	ND		0.118	0.00269	ng/L
PCB 155 (BZ)	ND		0.118	0.00220	ng/L
PCB 156 (BZ)	ND		0.118	0.00249	ng/L
PCB 157 (BZ)	ND		0.118	0.00249	ng/L
PCB 158 (BZ)	ND		0.118	0.00195	ng/L
PCB 159 (BZ)	ND		0.118	0.00209	ng/L
PCB 160 (BZ)	**0.00448**	**Q C129 J**	**0.118**	**0.00247**	**ng/L**
PCB 161 (BZ)	ND		0.118	0.00208	ng/L
PCB 162 (BZ)	ND		0.118	0.00207	ng/L
PCB 163 (BZ)	**0.00448**	**Q C129 J**	**0.118**	**0.00247**	**ng/L**
PCB 164 (BZ)	ND		0.118	0.00218	ng/L
PCB 165 (BZ)	ND		0.118	0.00229	ng/L
PCB 166 (BZ)	ND		0.118	0.00239	ng/L
PCB 167 (BZ)	ND		0.118	0.00158	ng/L
PCB 168 (BZ)	**0.00459**	**C153 J**	**0.118**	**0.00214**	**ng/L**
PCB 169 (BZ)	ND		0.118	0.00170	ng/L
PCB 170 (BZ)	ND		0.118	0.00263	ng/L
PCB 171 (BZ)	ND		0.118	0.00256	ng/L
PCB 172 (BZ)	ND		0.118	0.00253	ng/L
PCB 173 (BZ)	ND		0.118	0.00256	ng/L
PCB 174 (BZ)	ND		0.118	0.00237	ng/L
PCB 175 (BZ)	ND		0.118	0.00228	ng/L
PCB 176 (BZ)	ND		0.118	0.00174	ng/L
PCB 177 (BZ)	ND		0.118	0.00243	ng/L
PCB 178 (BZ)	ND		0.118	0.00246	ng/L
PCB 179 (BZ)	ND		0.118	0.00183	ng/L
PCB 180 (BZ)	ND		0.118	0.00193	ng/L

RJ Lee Group Inc.

Sample ID: WA060820090001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 010	**Work Order #....:**	LT36A1AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	340 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND	0.118	0.00228	ng/L
PCB 182 (BZ)	ND	0.118	0.00221	ng/L
PCB 183 (BZ)	ND	0.118	0.00226	ng/L
PCB 184 (BZ)	ND	0.118	0.00188	ng/L
PCB 185 (BZ)	ND	0.118	0.00226	ng/L
PCB 186 (BZ)	ND	0.118	0.00182	ng/L
PCB 187 (BZ)	ND	0.118	0.00212	ng/L
PCB 188 (BZ)	ND	0.118	0.00163	ng/L
PCB 189 (BZ)	ND	0.118	0.00148	ng/L
PCB 190 (BZ)	ND	0.118	0.00176	ng/L
PCB 191 (BZ)	ND	0.118	0.00173	ng/L
PCB 192 (BZ)	ND	0.118	0.00194	ng/L
PCB 193 (BZ)	ND	0.118	0.00193	ng/L
PCB 194 (BZ)	ND	0.118	0.00154	ng/L
PCB 195 (BZ)	ND	0.118	0.00167	ng/L
PCB 196 (BZ)	ND	0.118	0.00216	ng/L
PCB 197 (BZ)	ND	0.118	0.00161	ng/L
PCB 198 (BZ)	ND	0.118	0.00223	ng/L
PCB 201 (BZ)/199 (IUPAC)	ND	0.118	0.00223	ng/L
PCB 199 (BZ)/200 (IUPAC)	ND	0.118	0.00158	ng/L
PCB 200 (BZ)/201 (IUPAC)	ND	0.118	0.00153	ng/L
PCB 202 (BZ)	ND	0.118	0.00172	ng/L
PCB 203 (BZ)	ND	0.118	0.00200	ng/L
PCB 204 (BZ)	ND	0.118	0.00167	ng/L
PCB 205 (BZ)	ND	0.118	0.00130	ng/L
PCB 206 (BZ)	ND	0.118	0.00179	ng/L
PCB 207 (BZ)	ND	0.118	0.00136	ng/L
PCB 208 (BZ)	ND	0.118	0.00148	ng/L
PCB 209 (BZ)	ND	0.118	0.00149	ng/L

RJ Lee Group Inc.

Sample ID: WA060820090001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 010	**Work Order #....:**	LT36A1AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	340 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	66		30 - 140
13C12-PCB 3	60		30 - 140
13C12-PCB 4	80		30 - 140
13C12-PCB 15	76		30 - 140
13C12-PCB 19	87		30 - 140
13C12-PCB 37	85		30 - 140
13C12-PCB 54	82		30 - 140
13C12-PCB 77	86		30 - 140
13C12-PCB 81	85		30 - 140
13C12-PCB 104	87		30 - 140
13C12-PCB 105	89		30 - 140
13C12-PCB 114	88		30 - 140
13C12-PCB 118	86		30 - 140
13C12-PCB 123	85		30 - 140
13C12-PCB 126	88		30 - 140
13C12-PCB 155	99		30 - 140
13C12-PCB 156	94	C	30 - 140
13C12-PCB 157	94	C	30 - 140
13C12-PCB 167	90		30 - 140
13C12-PCB 169	84		30 - 140
13C12-PCB 170	99		30 - 140
13C12-PCB 188	101		30 - 140
13C12-PCB 189	96		30 - 140
13C12-PCB 202	116		30 - 140
13C12-PCB 205	104		30 - 140
13C12-PCB 206	109		30 - 140
13C12-PCB 208	99		30 - 140
13C12-PCB 209	106		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	85	40 - 125
13C12-PCB 111	92	40 - 125
13C12-PCB 178	87	40 - 125

RJ Lee Group Inc.

Sample ID: WA060820090001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 010	**Work Order #....:**	LT36A1AA	**Matrix....:**	WATER
Date Sampled....:	08/03/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	340 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

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Sample ID: WA110820090010-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 011	Work Order #....:	LT36D1AA	Matrix....:	SOLID
Date Sampled....:	07/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.0000831	ng/g
PCB 2 (BZ)		ND		0.0100	0.000102	ng/g
PCB 3 (BZ)		ND		0.0100	0.000129	ng/g
PCB 4 (BZ)		ND		0.0200	0.00183	ng/g
PCB 5 (BZ)		ND		0.0100	0.00155	ng/g
PCB 6 (BZ)		ND		0.0100	0.00145	ng/g
PCB 7 (BZ)		ND		0.0100	0.00149	ng/g
PCB 8 (BZ)		**0.00114**	**Q B J**	**0.0200**	**0.00142**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00150	ng/g
PCB 10 (BZ)		ND		0.0100	0.00161	ng/g
PCB 11 (BZ)	0.02U	**0.00243**	**Q B J**	**0.0200**	**0.00143**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00147	ng/g
PCB 13 (BZ)		ND		0.0100	0.00147	ng/g
PCB 14 (BZ)		ND		0.0100	0.00126	ng/g
PCB 15 (BZ)		ND		0.0100	0.00162	ng/g
PCB 16 (BZ)		ND		0.0100	0.000574	ng/g
PCB 17 (BZ)		ND		0.0100	0.000479	ng/g
PCB 18 (BZ)		ND		0.0200	0.000424	ng/g
PCB 19 (BZ)		ND		0.0100	0.000587	ng/g
PCB 20 (BZ)	0.02U	**0.00152**	**B C J**	**0.0200**	**0.000285**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000688**	**Q B C J**	**0.0100**	**0.000286**	**ng/g**
PCB 22 (BZ)	0.01U	**0.000389**	**Q B J**	**0.0100**	**0.000291**	**ng/g**
PCB 23 (BZ)		ND		0.0100	0.000297	ng/g
PCB 24 (BZ)		ND		0.0100	0.000401	ng/g
PCB 25 (BZ)		ND		0.0100	0.000265	ng/g
PCB 26 (BZ)		ND		0.0100	0.000281	ng/g
PCB 27 (BZ)		ND		0.0100	0.000346	ng/g
PCB 28 (BZ)	0.02U	**0.00152**	**B C20 J**	**0.0200**	**0.000285**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000281	ng/g
PCB 30 (BZ)		ND		0.0200	0.000424	ng/g
PCB 31 (BZ)	0.02U	**0.000901**	**B J**	**0.0200**	**0.000279**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000340	ng/g
PCB 33 (BZ)	0.01U	**0.000688**	**Q B C21 J**	**0.0100**	**0.000286**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000292	ng/g
PCB 35 (BZ)		ND		0.0100	0.000300	ng/g
PCB 36 (BZ)		ND		0.0100	0.000290	ng/g

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9-13-2010

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Sample ID: WA110820090010-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 011	**Work Order #....:**	LT36D1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000298	ng/g
PCB 38 (BZ)		ND		0.0100	0.000306	ng/g
PCB 39 (BZ)		ND		0.0100	0.000272	ng/g
PCB 40 (BZ)		ND		0.0100	0.000397	ng/g
PCB 41 (BZ)		ND		0.0100	0.000397	ng/g
PCB 42 (BZ)		ND		0.0100	0.000404	ng/g
PCB 43 (BZ)		ND		0.0100	0.000371	ng/g
PCB 44 (BZ)	0.01U	**0.00146**	**Q B C J**	**0.0100**	**0.000355**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000411	ng/g
PCB 46 (BZ)		ND		0.0100	0.000486	ng/g
PCB 47 (BZ)	0.01U	**0.00146**	**Q B C44 J**	**0.0100**	**0.000355**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000393	ng/g
PCB 49 (BZ)		ND		0.0100	0.000327	ng/g
PCB 50 (BZ)		ND		0.0100	0.000382	ng/g
PCB 51 (BZ)		ND		0.0100	0.000411	ng/g
PCB 52 (BZ)		**0.000816**	**Q J**	**0.0100**	**0.000382**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000382	ng/g
PCB 54 (BZ)		ND		0.0100	0.000420	ng/g
PCB 55 (BZ)		ND		0.0100	0.000307	ng/g
PCB 56 (BZ)		**0.00105**	**J**	**0.0100**	**0.000289**	**ng/g**
PCB 57 (BZ)		ND		0.0100	0.000293	ng/g
PCB 58 (BZ)		ND		0.0100	0.000291	ng/g
PCB 59 (BZ)		ND		0.0100	0.000282	ng/g
PCB 60 (BZ)		ND		0.0100	0.000298	ng/g
PCB 61 (BZ)	0.02U	**0.000901**	**Q B C J**	**0.0200**	**0.000282**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000282	ng/g
PCB 63 (BZ)		ND		0.0100	0.000271	ng/g
PCB 64 (BZ)		**0.000353**	**J**	**0.0100**	**0.000267**	**ng/g**
PCB 65 (BZ)	0.01U	**0.00146**	**Q B C44 J**	**0.0100**	**0.000355**	**ng/g**
PCB 66 (BZ)		ND		0.0100	0.000280	ng/g
PCB 67 (BZ)		ND		0.0100	0.000263	ng/g
PCB 68 (BZ)		ND		0.0100	0.000265	ng/g
PCB 69 (BZ)		ND		0.0100	0.000327	ng/g
PCB 70 (BZ)	0.02U	**0.000901**	**Q B C61 J**	**0.0200**	**0.000282**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000397	ng/g
PCB 72 (BZ)		ND		0.0100	0.000285	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 011	Work Order #....:	LT36D1AA	Matrix....:	SOLID
Date Sampled....:	07/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0100	0.000371	ng/g
PCB 74 (BZ)	0.02U	**0.000901**	**Q B C61 J**	**0.0200**	**0.000282**	**ng/g**
PCB 75 (BZ)		ND		0.0100	0.000282	ng/g
PCB 76 (BZ)	0.02U	**0.000901**	**Q B C61 J**	**0.0200**	**0.000282**	**ng/g**
PCB 77 (BZ)		ND		0.0100	0.000279	ng/g
PCB 78 (BZ)		ND		0.0100	0.000302	ng/g
PCB 79 (BZ)		ND		0.0100	0.000265	ng/g
PCB 80 (BZ)		ND		0.0100	0.000259	ng/g
PCB 81 (BZ)		ND		0.0100	0.000269	ng/g
PCB 82 (BZ)		ND		0.0100	0.000407	ng/g
PCB 83 (BZ)		ND		0.0100	0.000342	ng/g
PCB 84 (BZ)		ND		0.0100	0.000388	ng/g
PCB 85 (BZ)		ND		0.0100	0.000281	ng/g
PCB 86 (BZ)		ND		0.0100	0.000288	ng/g
PCB 87 (BZ)		ND		0.0100	0.000288	ng/g
PCB 88 (BZ)		ND		0.0100	0.000346	ng/g
PCB 89 (BZ)		ND		0.0100	0.000376	ng/g
PCB 90 (BZ)		**0.000699**	**Q C J**	**0.0100**	**0.000293**	**ng/g**
PCB 91 (BZ)		ND		0.0100	0.000346	ng/g
PCB 92 (BZ)		ND		0.0100	0.000333	ng/g
PCB 93 (BZ)		ND		0.0100	0.000334	ng/g
PCB 94 (BZ)		ND		0.0100	0.000376	ng/g
PCB 95 (BZ)		ND		0.0100	0.000354	ng/g
PCB 96 (BZ)		ND		0.0100	0.000281	ng/g
PCB 97 (BZ)		ND		0.0100	0.000288	ng/g
PCB 98 (BZ)		ND		0.0100	0.000324	ng/g
PCB 99 (BZ)		ND		0.0100	0.000342	ng/g
PCB 100 (BZ)		ND		0.0100	0.000334	ng/g
PCB 101 (BZ)		**0.000699**	**Q C90 J**	**0.0100**	**0.000293**	**ng/g**
PCB 102 (BZ)		ND		0.0100	0.000324	ng/g
PCB 103 (BZ)		ND		0.0100	0.000330	ng/g
PCB 104 (BZ)		ND		0.0100	0.000250	ng/g
PCB 105 (BZ)		ND		0.0100	0.000242	ng/g
PCB 106 (BZ)		ND		0.0100	0.000248	ng/g
PCB 107 (BZ)/109 (IUPAC)		ND		0.0100	0.000241	ng/g
PCB 108 (BZ)/107 (IUPAC)		ND		0.0100	0.000253	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 011	**Work Order #....:**	LT36D1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	ND		0.0100	0.000288	ng/g
PCB 110 (BZ)	**0.00141**	**C J**	**0.0100**	**0.000249**	**ng/g**
PCB 111 (BZ)	ND		0.0100	0.000235	ng/g
PCB 112 (BZ)	ND		0.0100	0.000256	ng/g
PCB 113 (BZ)	**0.000699**	**Q C90 J**	**0.0100**	**0.000293**	**ng/g**
PCB 114 (BZ)	ND		0.0100	0.000225	ng/g
PCB 115 (BZ)	**0.00141**	**C110 J**	**0.0100**	**0.000249**	**ng/g**
PCB 116 (BZ)	ND		0.0100	0.000281	ng/g
PCB 117 (BZ)	ND		0.0100	0.000281	ng/g
PCB 118 (BZ)	**0.00113**	**Q J**	**0.0100**	**0.000235**	**ng/g**
PCB 119 (BZ)	ND		0.0100	0.000288	ng/g
PCB 120 (BZ)	ND		0.0100	0.000242	ng/g
PCB 121 (BZ)	ND		0.0100	0.000244	ng/g
PCB 122 (BZ)	ND		0.0100	0.000270	ng/g
PCB 123 (BZ)	ND		0.0100	0.000251	ng/g
PCB 124 (BZ)	ND		0.0100	0.000253	ng/g
PCB 125 (BZ)	ND		0.0100	0.000288	ng/g
PCB 126 (BZ)	ND		0.0100	0.000238	ng/g
PCB 127 (BZ)	ND		0.0100	0.000245	ng/g
PCB 128 (BZ)	ND		0.0100	0.000373	ng/g
PCB 129 (BZ)	**0.00195**	**Q C J**	**0.0100**	**0.000386**	**ng/g**
PCB 130 (BZ)	ND		0.0100	0.000498	ng/g
PCB 131 (BZ)	ND		0.0100	0.000510	ng/g
PCB 132 (BZ)	ND		0.0100	0.000485	ng/g
PCB 133 (BZ)	ND		0.0100	0.000468	ng/g
PCB 134 (BZ)	ND		0.0100	0.000499	ng/g
PCB 135 (BZ)	ND		0.0100	0.000436	ng/g
PCB 136 (BZ)	ND		0.0100	0.000320	ng/g
PCB 137 (BZ)	ND		0.0100	0.000430	ng/g
PCB 138 (BZ)	**0.00195**	**Q C129 J**	**0.0100**	**0.000386**	**ng/g**
PCB 139 (BZ)	ND		0.0100	0.000427	ng/g
PCB 140 (BZ)	ND		0.0100	0.000427	ng/g
PCB 141 (BZ)	ND		0.0100	0.000445	ng/g
PCB 142 (BZ)	ND		0.0100	0.000490	ng/g
PCB 143 (BZ)	ND		0.0100	0.000499	ng/g
PCB 144 (BZ)	ND		0.0100	0.000405	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 011	**Work Order #....:**	LT36D1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0100	0.000306	ng/g
PCB 146 (BZ)	ND		0.0100	0.000406	ng/g
PCB 147 (BZ)	**0.00114**	**Q C J**	**0.0100**	**0.000415**	**ng/g**
PCB 148 (BZ)	ND		0.0100	0.000428	ng/g
PCB 149 (BZ)	**0.00114**	**Q C147 J**	**0.0100**	**0.000415**	**ng/g**
PCB 150 (BZ)	ND		0.0100	0.000298	ng/g
PCB 151 (BZ)	ND		0.0100	0.000436	ng/g
PCB 152 (BZ)	ND		0.0100	0.000304	ng/g
PCB 153 (BZ)	**0.00158**	**Q C J**	**0.0100**	**0.000333**	**ng/g**
PCB 154 (BZ)	ND		0.0100	0.000355	ng/g
PCB 155 (BZ)	ND		0.0100	0.000290	ng/g
PCB 156 (BZ)	ND		0.0100	0.000401	ng/g
PCB 157 (BZ)	ND		0.0100	0.000401	ng/g
PCB 158 (BZ)	ND		0.0100	0.000304	ng/g
PCB 159 (BZ)	ND		0.0100	0.000326	ng/g
PCB 160 (BZ)	**0.00195**	**Q C129 J**	**0.0100**	**0.000386**	**ng/g**
PCB 161 (BZ)	ND		0.0100	0.000325	ng/g
PCB 162 (BZ)	ND		0.0100	0.000322	ng/g
PCB 163 (BZ)	**0.00195**	**Q C129 J**	**0.0100**	**0.000386**	**ng/g**
PCB 164 (BZ)	ND		0.0100	0.000340	ng/g
PCB 165 (BZ)	ND		0.0100	0.000357	ng/g
PCB 166 (BZ)	ND		0.0100	0.000373	ng/g
PCB 167 (BZ)	ND		0.0100	0.000247	ng/g
PCB 168 (BZ)	**0.00158**	**Q C153 J**	**0.0100**	**0.000333**	**ng/g**
PCB 169 (BZ)	ND		0.0100	0.000252	ng/g
PCB 170 (BZ)	ND		0.0100	0.000407	ng/g
PCB 171 (BZ)	ND		0.0100	0.000403	ng/g
PCB 172 (BZ)	ND		0.0100	0.000399	ng/g
PCB 173 (BZ)	ND		0.0100	0.000403	ng/g
PCB 174 (BZ)	ND		0.0100	0.000374	ng/g
PCB 175 (BZ)	ND		0.0100	0.000359	ng/g
PCB 176 (BZ)	ND		0.0100	0.000274	ng/g
PCB 177 (BZ)	ND		0.0100	0.000383	ng/g
PCB 178 (BZ)	ND		0.0100	0.000388	ng/g
PCB 179 (BZ)	ND		0.0100	0.000288	ng/g
PCB 180 (BZ)	**0.00106**	**Q C J**	**0.0100**	**0.000305**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA110820090010-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 011	**Work Order #....:**	LT36D1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000359	ng/g
PCB 182 (BZ)	ND		0.0100	0.000349	ng/g
PCB 183 (BZ)	ND		0.0100	0.000356	ng/g
PCB 184 (BZ)	ND		0.0100	0.000296	ng/g
PCB 185 (BZ)	ND		0.0100	0.000356	ng/g
PCB 186 (BZ)	ND		0.0100	0.000288	ng/g
PCB 187 (BZ)	ND		0.0100	0.000334	ng/g
PCB 188 (BZ)	ND		0.0100	0.000260	ng/g
PCB 189 (BZ)	ND		0.0100	0.000243	ng/g
PCB 190 (BZ)	ND		0.0100	0.000278	ng/g
PCB 191 (BZ)	ND		0.0100	0.000273	ng/g
PCB 192 (BZ)	ND		0.0100	0.000305	ng/g
PCB 193 (BZ)	**0.00106**	**Q C180 J**	**0.0100**	**0.000305**	**ng/g**
PCB 194 (BZ)	ND		0.0100	0.000259	ng/g
PCB 195 (BZ)	ND		0.0100	0.000281	ng/g
PCB 196 (BZ)	ND		0.0100	0.000318	ng/g
PCB 197 (BZ)	ND		0.0100	0.000236	ng/g
PCB 198 (BZ)	ND		0.0100	0.000328	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND		0.0100	0.000328	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND		0.0100	0.000232	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND		0.0100	0.000224	ng/g
PCB 202 (BZ)	ND		0.0100	0.000252	ng/g
PCB 203 (BZ)	ND		0.0100	0.000293	ng/g
PCB 204 (BZ)	ND		0.0100	0.000246	ng/g
PCB 205 (BZ)	ND		0.0100	0.000218	ng/g
PCB 206 (BZ)	ND		0.0100	0.000250	ng/g
PCB 207 (BZ)	ND		0.0100	0.000182	ng/g
PCB 208 (BZ)	ND		0.0100	0.000193	ng/g
PCB 209 (BZ)	ND		0.0100	0.000314	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 011	**Work Order #....:**	LT36D1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	67		30 - 140
13C12-PCB 3	59		30 - 140
13C12-PCB 4	77		30 - 140
13C12-PCB 15	73		30 - 140
13C12-PCB 19	76		30 - 140
13C12-PCB 37	75		30 - 140
13C12-PCB 54	76		30 - 140
13C12-PCB 77	73		30 - 140
13C12-PCB 81	73		30 - 140
13C12-PCB 104	83		30 - 140
13C12-PCB 105	80		30 - 140
13C12-PCB 114	83		30 - 140
13C12-PCB 118	80		30 - 140
13C12-PCB 123	80		30 - 140
13C12-PCB 126	84		30 - 140
13C12-PCB 155	94		30 - 140
13C12-PCB 156	83	C	30 - 140
13C12-PCB 157	83	C	30 - 140
13C12-PCB 167	80		30 - 140
13C12-PCB 169	81		30 - 140
13C12-PCB 170	90		30 - 140
13C12-PCB 188	94		30 - 140
13C12-PCB 189	89		30 - 140
13C12-PCB 202	108		30 - 140
13C12-PCB 205	93		30 - 140
13C12-PCB 206	98		30 - 140
13C12-PCB 208	93		30 - 140
13C12-PCB 209	94		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	84	40 - 125
13C12-PCB 111	89	40 - 125
13C12-PCB 178	88	40 - 125

RJ Lee Group Inc.

Sample ID: WA110820090010-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 011	**Work Order #....:**	LT36D1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA110820090010-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 012	**Work Order #....:**	LT36F1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000102	ng/g
PCB 2 (BZ)		ND		0.0100	0.000126	ng/g
PCB 3 (BZ)		ND		0.0100	0.000161	ng/g
PCB 4 (BZ)		**0.00208**	**Q J**	**0.0200**	**0.00188**	**ng/g**
PCB 5 (BZ)		ND		0.0100	0.00162	ng/g
PCB 6 (BZ)		ND		0.0100	0.00152	ng/g
PCB 7 (BZ)		ND		0.0100	0.00157	ng/g
PCB 8 (BZ)		**0.00162**	**Q B J**	**0.0200**	**0.00149**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00157	ng/g
PCB 10 (BZ)		ND		0.0100	0.00169	ng/g
PCB 11 (BZ)	0.02U	**0.00334**	**Q B J**	**0.0200**	**0.00150**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00154	ng/g
PCB 13 (BZ)		ND		0.0100	0.00154	ng/g
PCB 14 (BZ)		ND		0.0100	0.00133	ng/g
PCB 15 (BZ)		ND		0.0100	0.00173	ng/g
PCB 16 (BZ)		ND		0.0100	0.000594	ng/g
PCB 17 (BZ)		ND		0.0100	0.000496	ng/g
PCB 18 (BZ)		**0.00152**	**C J**	**0.0200**	**0.000439**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000608	ng/g
PCB 20 (BZ)	0.02U	**0.00214**	**Q B C J**	**0.0200**	**0.000303**	**ng/g**
PCB 21 (BZ)	0.01U	**0.00107**	**Q B C J**	**0.0100**	**0.000304**	**ng/g**
PCB 22 (BZ)		**0.000655**	**J**	**0.0100**	**0.000309**	**ng/g**
PCB 23 (BZ)		ND		0.0100	0.000315	ng/g
PCB 24 (BZ)		ND		0.0100	0.000415	ng/g
PCB 25 (BZ)		ND		0.0100	0.000281	ng/g
PCB 26 (BZ)		ND		0.0100	0.000298	ng/g
PCB 27 (BZ)		ND		0.0100	0.000358	ng/g
PCB 28 (BZ)	0.02U	**0.00214**	**Q B C20 J**	**0.0200**	**0.000303**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000298	ng/g
PCB 30 (BZ)		**0.00152**	**C18 J**	**0.0200**	**0.000439**	**ng/g**
PCB 31 (BZ)	0.02U	**0.00113**	**Q B J**	**0.0200**	**0.000296**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000351	ng/g
PCB 33 (BZ)	0.01U	**0.00107**	**Q B C21 J**	**0.0100**	**0.000304**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000310	ng/g
PCB 35 (BZ)		ND		0.0100	0.000319	ng/g
PCB 36 (BZ)		ND		0.0100	0.000308	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 012	Work Order #....:	LT36F1AA	Matrix....:	SOLID
Date Sampled....:	07/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000316	ng/g
PCB 38 (BZ)		ND		0.0100	0.000325	ng/g
PCB 39 (BZ)		ND		0.0100	0.000289	ng/g
PCB 40 (BZ)		**0.000577**	**Q C J**	**0.0100**	**0.000440**	**ng/g**
PCB 41 (BZ)		**0.000577**	**Q C40 J**	**0.0100**	**0.000440**	**ng/g**
PCB 42 (BZ)		ND		0.0100	0.000448	ng/g
PCB 43 (BZ)		ND		0.0100	0.000412	ng/g
PCB 44 (BZ)	0.01U	**0.00278**	**B C J**	**0.0100**	**0.000394**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000457	ng/g
PCB 46 (BZ)		ND		0.0100	0.000540	ng/g
PCB 47 (BZ)	0.01U	**0.00278**	**B C44 J**	**0.0100**	**0.000394**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000437	ng/g
PCB 49 (BZ)		**0.000593**	**C J**	**0.0100**	**0.000363**	**ng/g**
PCB 50 (BZ)		ND		0.0100	0.000424	ng/g
PCB 51 (BZ)		ND		0.0100	0.000457	ng/g
PCB 52 (BZ)		**0.00171**	**Q J**	**0.0100**	**0.000425**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000424	ng/g
PCB 54 (BZ)		ND		0.0100	0.000458	ng/g
PCB 55 (BZ)		ND		0.0100	0.000341	ng/g
PCB 56 (BZ)		**0.00445**	**J**	**0.0100**	**0.000321**	**ng/g**
PCB 57 (BZ)		ND		0.0100	0.000325	ng/g
PCB 58 (BZ)		ND		0.0100	0.000323	ng/g
PCB 59 (BZ)		ND		0.0100	0.000314	ng/g
PCB 60 (BZ)		**0.000404**	**Q J**	**0.0100**	**0.000331**	**ng/g**
PCB 61 (BZ)		**0.00182**	**Q C J**	**0.0200**	**0.000313**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000314	ng/g
PCB 63 (BZ)		ND		0.0100	0.000301	ng/g
PCB 64 (BZ)		**0.000568**	**Q J**	**0.0100**	**0.000297**	**ng/g**
PCB 65 (BZ)	0.01U	**0.00278**	**B C44 J**	**0.0100**	**0.000394**	**ng/g**
PCB 66 (BZ)		**0.000918**	**Q J**	**0.0100**	**0.000311**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000292	ng/g
PCB 68 (BZ)		ND		0.0100	0.000294	ng/g
PCB 69 (BZ)		**0.000593**	**C49 J**	**0.0100**	**0.000363**	**ng/g**
PCB 70 (BZ)		**0.00182**	**Q C61 J**	**0.0200**	**0.000313**	**ng/g**
PCB 71 (BZ)		**0.000577**	**Q C40 J**	**0.0100**	**0.000440**	**ng/g**
PCB 72 (BZ)		ND		0.0100	0.000316	ng/g

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9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 012	**Work Order #....:**	LT36F1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND		0.0100	0.000412	ng/g
PCB 74 (BZ)	**0.00182**	**Q C61 J**	**0.0200**	**0.000313**	**ng/g**
PCB 75 (BZ)	ND		0.0100	0.000314	ng/g
PCB 76 (BZ)	**0.00182**	**Q C61 J**	**0.0200**	**0.000313**	**ng/g**
PCB 77 (BZ)	**0.00151**	**Q J**	**0.0100**	**0.000311**	**ng/g**
PCB 78 (BZ)	ND		0.0100	0.000336	ng/g
PCB 79 (BZ)	ND		0.0100	0.000295	ng/g
PCB 80 (BZ)	ND		0.0100	0.000288	ng/g
PCB 81 (BZ)	ND		0.0100	0.000298	ng/g
PCB 82 (BZ)	ND		0.0100	0.000508	ng/g
PCB 83 (BZ)	**0.00158**	**C J**	**0.0100**	**0.000427**	**ng/g**
PCB 84 (BZ)	ND		0.0100	0.000485	ng/g
PCB 85 (BZ)	ND		0.0100	0.000351	ng/g
PCB 86 (BZ)	**0.00260**	**C J**	**0.0100**	**0.000359**	**ng/g**
PCB 87 (BZ)	**0.00260**	**C86 J**	**0.0100**	**0.000359**	**ng/g**
PCB 88 (BZ)	ND		0.0100	0.000432	ng/g
PCB 89 (BZ)	ND		0.0100	0.000469	ng/g
PCB 90 (BZ)	**0.00277**	**C J**	**0.0100**	**0.000366**	**ng/g**
PCB 91 (BZ)	ND		0.0100	0.000432	ng/g
PCB 92 (BZ)	ND		0.0100	0.000415	ng/g
PCB 93 (BZ)	ND		0.0100	0.000417	ng/g
PCB 94 (BZ)	ND		0.0100	0.000469	ng/g
PCB 95 (BZ)	**0.00231**	**J**	**0.0100**	**0.000442**	**ng/g**
PCB 96 (BZ)	ND		0.0100	0.000351	ng/g
PCB 97 (BZ)	**0.00260**	**C86 J**	**0.0100**	**0.000359**	**ng/g**
PCB 98 (BZ)	ND		0.0100	0.000404	ng/g
PCB 99 (BZ)	**0.00158**	**C83 J**	**0.0100**	**0.000427**	**ng/g**
PCB 100 (BZ)	ND		0.0100	0.000417	ng/g
PCB 101 (BZ)	**0.00277**	**C90 J**	**0.0100**	**0.000366**	**ng/g**
PCB 102 (BZ)	ND		0.0100	0.000404	ng/g
PCB 103 (BZ)	ND		0.0100	0.000411	ng/g
PCB 104 (BZ)	ND		0.0100	0.000313	ng/g
PCB 105 (BZ)	**0.00141**	**J**	**0.0100**	**0.000287**	**ng/g**
PCB 106 (BZ)	ND		0.0100	0.000300	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND		0.0100	0.000291	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND		0.0100	0.000306	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 012	Work Order #....:	LT36F1AA	Matrix....:	SOLID
Date Sampled....:	07/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)		**0.00260**	**C86 J**	**0.0100**	**0.000359**	**ng/g**
PCB 110 (BZ)		**0.00419**	**C J**	**0.0100**	**0.000310**	**ng/g**
PCB 111 (BZ)		ND		0.0100	0.000294	ng/g
PCB 112 (BZ)		ND		0.0100	0.000319	ng/g
PCB 113 (BZ)		**0.00277**	**C90 J**	**0.0100**	**0.000366**	**ng/g**
PCB 114 (BZ)		ND		0.0100	0.000265	ng/g
PCB 115 (BZ)		**0.00419**	**C110 J**	**0.0100**	**0.000310**	**ng/g**
PCB 116 (BZ)		ND		0.0100	0.000351	ng/g
PCB 117 (BZ)		ND		0.0100	0.000351	ng/g
PCB 118 (BZ)		**0.00320**	**Q J**	**0.0100**	**0.000286**	**ng/g**
PCB 119 (BZ)		**0.00260**	**C86 J**	**0.0100**	**0.000359**	**ng/g**
PCB 120 (BZ)		ND		0.0100	0.000302	ng/g
PCB 121 (BZ)		ND		0.0100	0.000305	ng/g
PCB 122 (BZ)		ND		0.0100	0.000327	ng/g
PCB 123 (BZ)		ND		0.0100	0.000302	ng/g
PCB 124 (BZ)		ND		0.0100	0.000306	ng/g
PCB 125 (BZ)		**0.00260**	**C86 J**	**0.0100**	**0.000359**	**ng/g**
PCB 126 (BZ)		ND		0.0100	0.000299	ng/g
PCB 127 (BZ)		ND		0.0100	0.000296	ng/g
PCB 128 (BZ)		**0.00111**	**C J**	**0.0100**	**0.000447**	**ng/g**
PCB 129 (BZ)	0.01U	**0.00831**	**B C J**	**0.0100**	**0.000462**	**ng/g**
PCB 130 (BZ)		ND		0.0100	0.000596	ng/g
PCB 131 (BZ)		ND		0.0100	0.000611	ng/g
PCB 132 (BZ)		**0.00203**	**Q J**	**0.0100**	**0.000581**	**ng/g**
PCB 133 (BZ)		ND		0.0100	0.000561	ng/g
PCB 134 (BZ)		ND		0.0100	0.000597	ng/g
PCB 135 (BZ)		ND		0.0100	0.000512	ng/g
PCB 136 (BZ)		ND		0.0100	0.000376	ng/g
PCB 137 (BZ)		ND		0.0100	0.000515	ng/g
PCB 138 (BZ)	0.01U	**0.00831**	**B C129 J**	**0.0100**	**0.000462**	**ng/g**
PCB 139 (BZ)		ND		0.0100	0.000512	ng/g
PCB 140 (BZ)		ND		0.0100	0.000512	ng/g
PCB 141 (BZ)		**0.00113**	**J**	**0.0100**	**0.000533**	**ng/g**
PCB 142 (BZ)		ND		0.0100	0.000588	ng/g
PCB 143 (BZ)		ND		0.0100	0.000597	ng/g
PCB 144 (BZ)		ND		0.0100	0.000475	ng/g

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9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 012	Work Order #....:	LT36F1AA	Matrix....:	SOLID
Date Sampled....:	07/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)		ND		0.0100	0.000359	ng/g
PCB 146 (BZ)		ND		0.0100	0.000486	ng/g
PCB 147 (BZ)		**0.00366**	**Q C J**	**0.0100**	**0.000497**	**ng/g**
PCB 148 (BZ)		ND		0.0100	0.000502	ng/g
PCB 149 (BZ)		**0.00366**	**Q C147 J**	**0.0100**	**0.000497**	**ng/g**
PCB 150 (BZ)		ND		0.0100	0.000350	ng/g
PCB 151 (BZ)		ND		0.0100	0.000512	ng/g
PCB 152 (BZ)		ND		0.0100	0.000357	ng/g
PCB 153 (BZ)	0.01U	**0.00507**	**B C J**	**0.0100**	**0.000399**	**ng/g**
PCB 154 (BZ)		ND		0.0100	0.000416	ng/g
PCB 155 (BZ)		ND		0.0100	0.000340	ng/g
PCB 156 (BZ)		ND		0.0100	0.000479	ng/g
PCB 157 (BZ)		ND		0.0100	0.000479	ng/g
PCB 158 (BZ)		**0.000564**	**Q J**	**0.0100**	**0.000365**	**ng/g**
PCB 159 (BZ)		ND		0.0100	0.000391	ng/g
PCB 160 (BZ)	0.01U	**0.00831**	**B C129 J**	**0.0100**	**0.000462**	**ng/g**
PCB 161 (BZ)		ND		0.0100	0.000389	ng/g
PCB 162 (BZ)		ND		0.0100	0.000386	ng/g
PCB 163 (BZ)	0.01U	**0.00831**	**B C129 J**	**0.0100**	**0.000462**	**ng/g**
PCB 164 (BZ)		ND		0.0100	0.000407	ng/g
PCB 165 (BZ)		ND		0.0100	0.000428	ng/g
PCB 166 (BZ)		**0.00111**	**C128 J**	**0.0100**	**0.000447**	**ng/g**
PCB 167 (BZ)		ND		0.0100	0.000295	ng/g
PCB 168 (BZ)	0.01U	**0.00507**	**B C153 J**	**0.0100**	**0.000399**	**ng/g**
PCB 169 (BZ)		ND		0.0100	0.000305	ng/g
PCB 170 (BZ)	0.01U	**0.00205**	**Q B J**	**0.0100**	**0.000483**	**ng/g**
PCB 171 (BZ)		ND		0.0100	0.000468	ng/g
PCB 172 (BZ)		ND		0.0100	0.000464	ng/g
PCB 173 (BZ)		ND		0.0100	0.000468	ng/g
PCB 174 (BZ)	0.01U	**0.00188**	**Q B J**	**0.0100**	**0.000434**	**ng/g**
PCB 175 (BZ)		ND		0.0100	0.000417	ng/g
PCB 176 (BZ)		ND		0.0100	0.000318	ng/g
PCB 177 (BZ)		**0.00117**	**Q J**	**0.0100**	**0.000445**	**ng/g**
PCB 178 (BZ)		ND		0.0100	0.000451	ng/g
PCB 179 (BZ)		ND		0.0100	0.000335	ng/g
PCB 180 (BZ)	0.01U	**0.00451**	**Q B C J**	**0.0100**	**0.000354**	**ng/g**

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 012	Work Order #....:	LT36F1AA	Matrix....:	SOLID
Date Sampled....:	07/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)		ND		0.0100	0.000417	ng/g
PCB 182 (BZ)		ND		0.0100	0.000405	ng/g
PCB 183 (BZ)	0.01U	**0.000793**	**Q B C J**	**0.0100**	**0.000414**	**ng/g**
PCB 184 (BZ)		ND		0.0100	0.000344	ng/g
PCB 185 (BZ)	0.01U	**0.000792**	**Q B C183 J**	**0.0100**	**0.000414**	**ng/g**
PCB 186 (BZ)		ND		0.0100	0.000334	ng/g
PCB 187 (BZ)		**0.00196**	**J**	**0.0100**	**0.000387**	**ng/g**
PCB 188 (BZ)		ND		0.0100	0.000298	ng/g
PCB 189 (BZ)		ND		0.0100	0.000287	ng/g
PCB 190 (BZ)		ND		0.0100	0.000323	ng/g
PCB 191 (BZ)		ND		0.0100	0.000317	ng/g
PCB 192 (BZ)		ND		0.0100	0.000354	ng/g
PCB 193 (BZ)	0.01U	**0.00451**	**Q B C180 J**	**0.0100**	**0.000354**	**ng/g**
PCB 194 (BZ)	0.01U	**0.00127**	**Q B J**	**0.0100**	**0.000293**	**ng/g**
PCB 195 (BZ)		ND		0.0100	0.000318	ng/g
PCB 196 (BZ)		ND		0.0100	0.000375	ng/g
PCB 197 (BZ)		ND		0.0100	0.000279	ng/g
PCB 198 (BZ)		**0.00149**	**C J**	**0.0100**	**0.000387**	**ng/g**
PCB 201 (BZ)/199 (IUPAC)		**0.00149**	**C198 J**	**0.0100**	**0.000387**	**ng/g**
PCB 199 (BZ)/200 (IUPAC)		ND		0.0100	0.000274	ng/g
PCB 200 (BZ)/201 (IUPAC)		ND		0.0100	0.000265	ng/g
PCB 202 (BZ)		ND		0.0100	0.000298	ng/g
PCB 203 (BZ)		**0.000742**	**Q J**	**0.0100**	**0.000346**	**ng/g**
PCB 204 (BZ)		ND		0.0100	0.000290	ng/g
PCB 205 (BZ)		ND		0.0100	0.000247	ng/g
PCB 206 (BZ)	0.01U	**0.000590**	**Q B J**	**0.0100**	**0.000268**	**ng/g**
PCB 207 (BZ)		ND		0.0100	0.000198	ng/g
PCB 208 (BZ)		ND		0.0100	0.000212	ng/g
PCB 209 (BZ)		ND		0.0100	0.000273	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 012	**Work Order #....:**	LT36F1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	67		30 - 140
13C12-PCB 3	60		30 - 140
13C12-PCB 4	78		30 - 140
13C12-PCB 15	72		30 - 140
13C12-PCB 19	76		30 - 140
13C12-PCB 37	77		30 - 140
13C12-PCB 54	78		30 - 140
13C12-PCB 77	75		30 - 140
13C12-PCB 81	75		30 - 140
13C12-PCB 104	82		30 - 140
13C12-PCB 105	83		30 - 140
13C12-PCB 114	84		30 - 140
13C12-PCB 118	82		30 - 140
13C12-PCB 123	82		30 - 140
13C12-PCB 126	84		30 - 140
13C12-PCB 155	93		30 - 140
13C12-PCB 156	82	C	30 - 140
13C12-PCB 157	82	C	30 - 140
13C12-PCB 167	80		30 - 140
13C12-PCB 169	80		30 - 140
13C12-PCB 170	92		30 - 140
13C12-PCB 188	98		30 - 140
13C12-PCB 189	91		30 - 140
13C12-PCB 202	112		30 - 140
13C12-PCB 205	95		30 - 140
13C12-PCB 206	99		30 - 140
13C12-PCB 208	93		30 - 140
13C12-PCB 209	98		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	82	40 - 125
13C12-PCB 111	86	40 - 125
13C12-PCB 178	86	40 - 125

RJ Lee Group Inc.

Sample ID: WA110820090010-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 012	**Work Order #....:**	LT36F1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA110820090010-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 013	**Work Order #....:**	LT36H1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000100	ng/g
PCB 2 (BZ)		ND		0.0100	0.000130	ng/g
PCB 3 (BZ)		ND		0.0100	0.000179	ng/g
PCB 4 (BZ)		ND		0.0200	0.00228	ng/g
PCB 5 (BZ)		ND		0.0100	0.00210	ng/g
PCB 6 (BZ)		ND		0.0100	0.00197	ng/g
PCB 7 (BZ)		ND		0.0100	0.00203	ng/g
PCB 8 (BZ)		**0.00102**	**Q B J**	**0.0200**	**0.00193**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00204	ng/g
PCB 10 (BZ)		ND		0.0100	0.00219	ng/g
PCB 11 (BZ)	0.02U	**0.00266**	**Q B J**	**0.0200**	**0.00194**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00199	ng/g
PCB 13 (BZ)		ND		0.0100	0.00199	ng/g
PCB 14 (BZ)		ND		0.0100	0.00172	ng/g
PCB 15 (BZ)		ND		0.0100	0.00239	ng/g
PCB 16 (BZ)		ND		0.0100	0.000643	ng/g
PCB 17 (BZ)		ND		0.0100	0.000537	ng/g
PCB 18 (BZ)		ND		0.0200	0.000475	ng/g
PCB 19 (BZ)		ND		0.0100	0.000658	ng/g
PCB 20 (BZ)	0.02U	**0.00107**	**B C J**	**0.0200**	**0.000366**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000588**	**Q B C J**	**0.0100**	**0.000367**	**ng/g**
PCB 22 (BZ)		ND		0.0100	0.000373	ng/g
PCB 23 (BZ)		ND		0.0100	0.000380	ng/g
PCB 24 (BZ)		ND		0.0100	0.000450	ng/g
PCB 25 (BZ)		ND		0.0100	0.000339	ng/g
PCB 26 (BZ)		ND		0.0100	0.000360	ng/g
PCB 27 (BZ)		ND		0.0100	0.000388	ng/g
PCB 28 (BZ)	0.02U	**0.00107**	**B C20 J**	**0.0200**	**0.000366**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000360	ng/g
PCB 30 (BZ)		ND		0.0200	0.000475	ng/g
PCB 31 (BZ)	0.02U	**0.00110**	**B J**	**0.0200**	**0.000357**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000380	ng/g
PCB 33 (BZ)	0.01U	**0.000588**	**Q B C21 J**	**0.0100**	**0.000367**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000374	ng/g
PCB 35 (BZ)		ND		0.0100	0.000385	ng/g
PCB 36 (BZ)		ND		0.0100	0.000372	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 013	**Work Order #....:**	LT36H1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000381	ng/g
PCB 38 (BZ)		ND		0.0100	0.000392	ng/g
PCB 39 (BZ)		ND		0.0100	0.000348	ng/g
PCB 40 (BZ)		ND		0.0100	0.000496	ng/g
PCB 41 (BZ)		ND		0.0100	0.000496	ng/g
PCB 42 (BZ)		ND		0.0100	0.000505	ng/g
PCB 43 (BZ)		ND		0.0100	0.000463	ng/g
PCB 44 (BZ)	0.01U	**0.000912**	**Q B C J**	**0.0100**	**0.000444**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000514	ng/g
PCB 46 (BZ)		ND		0.0100	0.000608	ng/g
PCB 47 (BZ)	0.01U	**0.000912**	**Q B C44 J**	**0.0100**	**0.000444**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000492	ng/g
PCB 49 (BZ)		ND		0.0100	0.000409	ng/g
PCB 50 (BZ)		ND		0.0100	0.000477	ng/g
PCB 51 (BZ)		ND		0.0100	0.000514	ng/g
PCB 52 (BZ)		**0.00100**	**J**	**0.0100**	**0.000478**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000477	ng/g
PCB 54 (BZ)		ND		0.0100	0.000480	ng/g
PCB 55 (BZ)		ND		0.0100	0.000384	ng/g
PCB 56 (BZ)		**0.000571**	**Q J**	**0.0100**	**0.000361**	**ng/g**
PCB 57 (BZ)		ND		0.0100	0.000366	ng/g
PCB 58 (BZ)		ND		0.0100	0.000364	ng/g
PCB 59 (BZ)		ND		0.0100	0.000353	ng/g
PCB 60 (BZ)		ND		0.0100	0.000372	ng/g
PCB 61 (BZ)	0.02U	**0.000953**	**B C J**	**0.0200**	**0.000353**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000353	ng/g
PCB 63 (BZ)		ND		0.0100	0.000339	ng/g
PCB 64 (BZ)		ND		0.0100	0.000334	ng/g
PCB 65 (BZ)	0.01U	**0.000912**	**Q B C44 J**	**0.0100**	**0.000444**	**ng/g**
PCB 66 (BZ)		ND		0.0100	0.000351	ng/g
PCB 67 (BZ)		ND		0.0100	0.000329	ng/g
PCB 68 (BZ)		ND		0.0100	0.000332	ng/g
PCB 69 (BZ)		ND		0.0100	0.000409	ng/g
PCB 70 (BZ)	0.02U	**0.000953**	**B C61 J**	**0.0200**	**0.000353**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000496	ng/g
PCB 72 (BZ)		ND		0.0100	0.000356	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 013	**Work Order #....:**	LT36H1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0100	0.000463	ng/g
PCB 74 (BZ)	0.02U	**0.000953**	**B C61 J**	**0.0200**	**0.000353**	**ng/g**
PCB 75 (BZ)		ND		0.0100	0.000353	ng/g
PCB 76 (BZ)	0.02U	**0.000953**	**B C61 J**	**0.0200**	**0.000353**	**ng/g**
PCB 77 (BZ)		ND		0.0100	0.000347	ng/g
PCB 78 (BZ)		ND		0.0100	0.000378	ng/g
PCB 79 (BZ)		ND		0.0100	0.000332	ng/g
PCB 80 (BZ)		ND		0.0100	0.000324	ng/g
PCB 81 (BZ)		ND		0.0100	0.000339	ng/g
PCB 82 (BZ)		ND		0.0100	0.000440	ng/g
PCB 83 (BZ)		ND		0.0100	0.000370	ng/g
PCB 84 (BZ)		ND		0.0100	0.000421	ng/g
PCB 85 (BZ)		ND		0.0100	0.000305	ng/g
PCB 86 (BZ)		ND		0.0100	0.000312	ng/g
PCB 87 (BZ)		ND		0.0100	0.000312	ng/g
PCB 88 (BZ)		ND		0.0100	0.000375	ng/g
PCB 89 (BZ)		ND		0.0100	0.000407	ng/g
PCB 90 (BZ)		**0.000826**	**Q C J**	**0.0100**	**0.000317**	**ng/g**
PCB 91 (BZ)		ND		0.0100	0.000375	ng/g
PCB 92 (BZ)		ND		0.0100	0.000360	ng/g
PCB 93 (BZ)		ND		0.0100	0.000362	ng/g
PCB 94 (BZ)		ND		0.0100	0.000407	ng/g
PCB 95 (BZ)		ND		0.0100	0.000383	ng/g
PCB 96 (BZ)		ND		0.0100	0.000304	ng/g
PCB 97 (BZ)		ND		0.0100	0.000312	ng/g
PCB 98 (BZ)		ND		0.0100	0.000350	ng/g
PCB 99 (BZ)		ND		0.0100	0.000370	ng/g
PCB 100 (BZ)		ND		0.0100	0.000362	ng/g
PCB 101 (BZ)		**0.000826**	**Q C90 J**	**0.0100**	**0.000317**	**ng/g**
PCB 102 (BZ)		ND		0.0100	0.000350	ng/g
PCB 103 (BZ)		ND		0.0100	0.000357	ng/g
PCB 104 (BZ)		ND		0.0100	0.000271	ng/g
PCB 105 (BZ)		**0.000416**	**Q J**	**0.0100**	**0.000271**	**ng/g**
PCB 106 (BZ)		ND		0.0100	0.000280	ng/g
PCB 107 (BZ)/109 (IUPAC)		ND		0.0100	0.000272	ng/g
PCB 108 (BZ)/107 (IUPAC)		ND		0.0100	0.000286	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 013	**Work Order #....:**	LT36H1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	ND		0.0100	0.000312	ng/g
PCB 110 (BZ)	**0.00160**	**C J**	**0.0100**	**0.000269**	**ng/g**
PCB 111 (BZ)	ND		0.0100	0.000255	ng/g
PCB 112 (BZ)	ND		0.0100	0.000277	ng/g
PCB 113 (BZ)	**0.000826**	**Q C90 J**	**0.0100**	**0.000317**	**ng/g**
PCB 114 (BZ)	ND		0.0100	0.000253	ng/g
PCB 115 (BZ)	**0.00160**	**C110 J**	**0.0100**	**0.000269**	**ng/g**
PCB 116 (BZ)	ND		0.0100	0.000305	ng/g
PCB 117 (BZ)	ND		0.0100	0.000305	ng/g
PCB 118 (BZ)	**0.00137**	**J**	**0.0100**	**0.000270**	**ng/g**
PCB 119 (BZ)	ND		0.0100	0.000312	ng/g
PCB 120 (BZ)	ND		0.0100	0.000262	ng/g
PCB 121 (BZ)	ND		0.0100	0.000264	ng/g
PCB 122 (BZ)	ND		0.0100	0.000305	ng/g
PCB 123 (BZ)	ND		0.0100	0.000273	ng/g
PCB 124 (BZ)	ND		0.0100	0.000286	ng/g
PCB 125 (BZ)	ND		0.0100	0.000312	ng/g
PCB 126 (BZ)	ND		0.0100	0.000280	ng/g
PCB 127 (BZ)	ND		0.0100	0.000277	ng/g
PCB 128 (BZ)	ND		0.0100	0.000472	ng/g
PCB 129 (BZ)	**0.00220**	**C J**	**0.0100**	**0.000488**	**ng/g**
PCB 130 (BZ)	ND		0.0100	0.000630	ng/g
PCB 131 (BZ)	ND		0.0100	0.000646	ng/g
PCB 132 (BZ)	ND		0.0100	0.000615	ng/g
PCB 133 (BZ)	ND		0.0100	0.000592	ng/g
PCB 134 (BZ)	ND		0.0100	0.000631	ng/g
PCB 135 (BZ)	ND		0.0100	0.000531	ng/g
PCB 136 (BZ)	ND		0.0100	0.000390	ng/g
PCB 137 (BZ)	ND		0.0100	0.000544	ng/g
PCB 138 (BZ)	**0.00220**	**C129 J**	**0.0100**	**0.000488**	**ng/g**
PCB 139 (BZ)	ND		0.0100	0.000541	ng/g
PCB 140 (BZ)	ND		0.0100	0.000541	ng/g
PCB 141 (BZ)	ND		0.0100	0.000563	ng/g
PCB 142 (BZ)	ND		0.0100	0.000621	ng/g
PCB 143 (BZ)	ND		0.0100	0.000631	ng/g
PCB 144 (BZ)	ND		0.0100	0.000493	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 013	**Work Order #....:**	LT36H1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0100	0.000372	ng/g
PCB 146 (BZ)	ND		0.0100	0.000514	ng/g
PCB 147 (BZ)	**0.00131**	**Q C J**	**0.0100**	**0.000525**	**ng/g**
PCB 148 (BZ)	ND		0.0100	0.000521	ng/g
PCB 149 (BZ)	**0.00131**	**Q C147 J**	**0.0100**	**0.000525**	**ng/g**
PCB 150 (BZ)	ND		0.0100	0.000363	ng/g
PCB 151 (BZ)	ND		0.0100	0.000531	ng/g
PCB 152 (BZ)	ND		0.0100	0.000370	ng/g
PCB 153 (BZ)	**0.00130**	**Q C J**	**0.0100**	**0.000422**	**ng/g**
PCB 154 (BZ)	ND		0.0100	0.000432	ng/g
PCB 155 (BZ)	ND		0.0100	0.000353	ng/g
PCB 156 (BZ)	ND		0.0100	0.000512	ng/g
PCB 157 (BZ)	ND		0.0100	0.000512	ng/g
PCB 158 (BZ)	ND		0.0100	0.000385	ng/g
PCB 159 (BZ)	ND		0.0100	0.000413	ng/g
PCB 160 (BZ)	**0.00220**	**C129 J**	**0.0100**	**0.000488**	**ng/g**
PCB 161 (BZ)	ND		0.0100	0.000411	ng/g
PCB 162 (BZ)	ND		0.0100	0.000408	ng/g
PCB 163 (BZ)	**0.00220**	**C129 J**	**0.0100**	**0.000488**	**ng/g**
PCB 164 (BZ)	ND		0.0100	0.000430	ng/g
PCB 165 (BZ)	ND		0.0100	0.000452	ng/g
PCB 166 (BZ)	ND		0.0100	0.000472	ng/g
PCB 167 (BZ)	ND		0.0100	0.000311	ng/g
PCB 168 (BZ)	**0.00130**	**Q C153 J**	**0.0100**	**0.000422**	**ng/g**
PCB 169 (BZ)	ND		0.0100	0.000317	ng/g
PCB 170 (BZ)	**0.000871**	**Q J**	**0.0100**	**0.000480**	**ng/g**
PCB 171 (BZ)	ND		0.0100	0.000460	ng/g
PCB 172 (BZ)	ND		0.0100	0.000455	ng/g
PCB 173 (BZ)	ND		0.0100	0.000460	ng/g
PCB 174 (BZ)	ND		0.0100	0.000426	ng/g
PCB 175 (BZ)	ND		0.0100	0.000409	ng/g
PCB 176 (BZ)	ND		0.0100	0.000312	ng/g
PCB 177 (BZ)	ND		0.0100	0.000437	ng/g
PCB 178 (BZ)	ND		0.0100	0.000442	ng/g
PCB 179 (BZ)	ND		0.0100	0.000329	ng/g
PCB 180 (BZ)	**0.00194**	**C J**	**0.0100**	**0.000347**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA110820090010-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 013	**Work Order #....:**	LT36H1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000409	ng/g
PCB 182 (BZ)	ND		0.0100	0.000398	ng/g
PCB 183 (BZ)	ND		0.0100	0.000406	ng/g
PCB 184 (BZ)	ND		0.0100	0.000338	ng/g
PCB 185 (BZ)	ND		0.0100	0.000406	ng/g
PCB 186 (BZ)	ND		0.0100	0.000328	ng/g
PCB 187 (BZ)	ND		0.0100	0.000380	ng/g
PCB 188 (BZ)	ND		0.0100	0.000291	ng/g
PCB 189 (BZ)	ND		0.0100	0.000280	ng/g
PCB 190 (BZ)	ND		0.0100	0.000317	ng/g
PCB 191 (BZ)	ND		0.0100	0.000312	ng/g
PCB 192 (BZ)	ND		0.0100	0.000348	ng/g
PCB 193 (BZ)	**0.00194**	**C180 J**	**0.0100**	**0.000347**	**ng/g**
PCB 194 (BZ)	ND		0.0100	0.000285	ng/g
PCB 195 (BZ)	ND		0.0100	0.000309	ng/g
PCB 196 (BZ)	ND		0.0100	0.000368	ng/g
PCB 197 (BZ)	ND		0.0100	0.000274	ng/g
PCB 198 (BZ)	ND		0.0100	0.000379	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND		0.0100	0.000379	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND		0.0100	0.000269	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND		0.0100	0.000259	ng/g
PCB 202 (BZ)	ND		0.0100	0.000292	ng/g
PCB 203 (BZ)	ND		0.0100	0.000339	ng/g
PCB 204 (BZ)	ND		0.0100	0.000284	ng/g
PCB 205 (BZ)	ND		0.0100	0.000240	ng/g
PCB 206 (BZ)	ND		0.0100	0.000336	ng/g
PCB 207 (BZ)	ND		0.0100	0.000251	ng/g
PCB 208 (BZ)	ND		0.0100	0.000270	ng/g
PCB 209 (BZ)	ND		0.0100	0.000402	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 013	**Work Order #....:**	LT36H1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	69		30 - 140
13C12-PCB 3	60		30 - 140
13C12-PCB 4	80		30 - 140
13C12-PCB 15	71		30 - 140
13C12-PCB 19	78		30 - 140
13C12-PCB 37	73		30 - 140
13C12-PCB 54	77		30 - 140
13C12-PCB 77	71		30 - 140
13C12-PCB 81	72		30 - 140
13C12-PCB 104	85		30 - 140
13C12-PCB 105	81		30 - 140
13C12-PCB 114	83		30 - 140
13C12-PCB 118	81		30 - 140
13C12-PCB 123	82		30 - 140
13C12-PCB 126	84		30 - 140
13C12-PCB 155	96		30 - 140
13C12-PCB 156	83	C	30 - 140
13C12-PCB 157	83	C	30 - 140
13C12-PCB 167	80		30 - 140
13C12-PCB 169	80		30 - 140
13C12-PCB 170	90		30 - 140
13C12-PCB 188	96		30 - 140
13C12-PCB 189	89		30 - 140
13C12-PCB 202	110		30 - 140
13C12-PCB 205	95		30 - 140
13C12-PCB 206	99		30 - 140
13C12-PCB 208	92		30 - 140
13C12-PCB 209	98		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	79	40 - 125
13C12-PCB 111	84	40 - 125
13C12-PCB 178	84	40 - 125

RJ Lee Group Inc.

Sample ID: WA110820090010-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 013	**Work Order #....:**	LT36H1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA110820090010-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 014	**Work Order #....:**	LT36J1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000104	ng/g
PCB 2 (BZ)		ND		0.0100	0.000127	ng/g
PCB 3 (BZ)		ND		0.0100	0.000161	ng/g
PCB 4 (BZ)		ND		0.0200	0.00209	ng/g
PCB 5 (BZ)		ND		0.0100	0.00182	ng/g
PCB 6 (BZ)		ND		0.0100	0.00171	ng/g
PCB 7 (BZ)		ND		0.0100	0.00176	ng/g
PCB 8 (BZ)		**0.00129**	**Q B J**	**0.0200**	**0.00167**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00176	ng/g
PCB 10 (BZ)		ND		0.0100	0.00190	ng/g
PCB 11 (BZ)	0.02U	**0.00293**	**Q B J**	**0.0200**	**0.00168**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00172	ng/g
PCB 13 (BZ)		ND		0.0100	0.00172	ng/g
PCB 14 (BZ)		ND		0.0100	0.00149	ng/g
PCB 15 (BZ)		ND		0.0100	0.00195	ng/g
PCB 16 (BZ)		ND		0.0100	0.000602	ng/g
PCB 17 (BZ)		ND		0.0100	0.000502	ng/g
PCB 18 (BZ)		ND		0.0200	0.000445	ng/g
PCB 19 (BZ)		ND		0.0100	0.000615	ng/g
PCB 20 (BZ)	0.02U	**0.00160**	**B C J**	**0.0200**	**0.000312**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000844**	**Q B C J**	**0.0100**	**0.000313**	**ng/g**
PCB 22 (BZ)		ND		0.0100	0.000318	ng/g
PCB 23 (BZ)		ND		0.0100	0.000324	ng/g
PCB 24 (BZ)		ND		0.0100	0.000421	ng/g
PCB 25 (BZ)		ND		0.0100	0.000289	ng/g
PCB 26 (BZ)		ND		0.0100	0.000307	ng/g
PCB 27 (BZ)		ND		0.0100	0.000363	ng/g
PCB 28 (BZ)	0.02U	**0.00160**	**B C20 J**	**0.0200**	**0.000312**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000307	ng/g
PCB 30 (BZ)		ND		0.0200	0.000445	ng/g
PCB 31 (BZ)	0.02U	**0.00108**	**B J**	**0.0200**	**0.000304**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000356	ng/g
PCB 33 (BZ)	0.01U	**0.000844**	**Q B C21 J**	**0.0100**	**0.000313**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000319	ng/g
PCB 35 (BZ)		ND		0.0100	0.000328	ng/g
PCB 36 (BZ)		ND		0.0100	0.000317	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 014	Work Order #....:	LT36J1AA	Matrix....:	SOLID
Date Sampled....:	07/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000325	ng/g
PCB 38 (BZ)		ND		0.0100	0.000334	ng/g
PCB 39 (BZ)		ND		0.0100	0.000297	ng/g
PCB 40 (BZ)		ND		0.0100	0.000422	ng/g
PCB 41 (BZ)		ND		0.0100	0.000422	ng/g
PCB 42 (BZ)		ND		0.0100	0.000430	ng/g
PCB 43 (BZ)		ND		0.0100	0.000395	ng/g
PCB 44 (BZ)	0.01U	**0.00158**	**B C J**	**0.0100**	**0.000378**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000438	ng/g
PCB 46 (BZ)		ND		0.0100	0.000517	ng/g
PCB 47 (BZ)	0.01U	**0.00158**	**B C44 J**	**0.0100**	**0.000378**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000419	ng/g
PCB 49 (BZ)		ND		0.0100	0.000348	ng/g
PCB 50 (BZ)		ND		0.0100	0.000406	ng/g
PCB 51 (BZ)		ND		0.0100	0.000438	ng/g
PCB 52 (BZ)		**0.000732**	**Q J**	**0.0100**	**0.000407**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000406	ng/g
PCB 54 (BZ)		ND		0.0100	0.000434	ng/g
PCB 55 (BZ)		ND		0.0100	0.000327	ng/g
PCB 56 (BZ)		ND		0.0100	0.000308	ng/g
PCB 57 (BZ)		ND		0.0100	0.000311	ng/g
PCB 58 (BZ)		ND		0.0100	0.000310	ng/g
PCB 59 (BZ)		ND		0.0100	0.000301	ng/g
PCB 60 (BZ)		ND		0.0100	0.000317	ng/g
PCB 61 (BZ)	0.02U	**0.00101**	**Q B C J**	**0.0200**	**0.000300**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000301	ng/g
PCB 63 (BZ)		ND		0.0100	0.000289	ng/g
PCB 64 (BZ)		ND		0.0100	0.000285	ng/g
PCB 65 (BZ)	0.01U	**0.00158**	**B C44 J**	**0.0100**	**0.000378**	**ng/g**
PCB 66 (BZ)	0.01U	**0.000464**	**B J**	**0.0100**	**0.000298**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000280	ng/g
PCB 68 (BZ)		ND		0.0100	0.000282	ng/g
PCB 69 (BZ)		ND		0.0100	0.000348	ng/g
PCB 70 (BZ)	0.02U	**0.00101**	**Q B C61 J**	**0.0200**	**0.000300**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000422	ng/g
PCB 72 (BZ)		ND		0.0100	0.000303	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 014	Work Order #....:	LT36J1AA	Matrix....:	SOLID
Date Sampled....:	07/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)		ND		0.0100	0.000395	ng/g
PCB 74 (BZ)	0.02U	**0.00101**	**Q B C61 J**	**0.0200**	**0.000300**	**ng/g**
PCB 75 (BZ)		ND		0.0100	0.000301	ng/g
PCB 76 (BZ)	0.02U	**0.00101**	**Q B C61 J**	**0.0200**	**0.000300**	**ng/g**
PCB 77 (BZ)		ND		0.0100	0.000301	ng/g
PCB 78 (BZ)		ND		0.0100	0.000322	ng/g
PCB 79 (BZ)		ND		0.0100	0.000283	ng/g
PCB 80 (BZ)		ND		0.0100	0.000276	ng/g
PCB 81 (BZ)		ND		0.0100	0.000283	ng/g
PCB 82 (BZ)		ND		0.0100	0.000407	ng/g
PCB 83 (BZ)		ND		0.0100	0.000342	ng/g
PCB 84 (BZ)		ND		0.0100	0.000388	ng/g
PCB 85 (BZ)		ND		0.0100	0.000281	ng/g
PCB 86 (BZ)		ND		0.0100	0.000288	ng/g
PCB 87 (BZ)		ND		0.0100	0.000288	ng/g
PCB 88 (BZ)		ND		0.0100	0.000346	ng/g
PCB 89 (BZ)		ND		0.0100	0.000376	ng/g
PCB 90 (BZ)		**0.000535**	**Q C J**	**0.0100**	**0.000293**	**ng/g**
PCB 91 (BZ)		ND		0.0100	0.000346	ng/g
PCB 92 (BZ)		ND		0.0100	0.000333	ng/g
PCB 93 (BZ)		ND		0.0100	0.000334	ng/g
PCB 94 (BZ)		ND		0.0100	0.000376	ng/g
PCB 95 (BZ)		ND		0.0100	0.000354	ng/g
PCB 96 (BZ)		ND		0.0100	0.000281	ng/g
PCB 97 (BZ)		ND		0.0100	0.000288	ng/g
PCB 98 (BZ)		ND		0.0100	0.000324	ng/g
PCB 99 (BZ)		ND		0.0100	0.000342	ng/g
PCB 100 (BZ)		ND		0.0100	0.000334	ng/g
PCB 101 (BZ)		**0.000535**	**Q C90 J**	**0.0100**	**0.000293**	**ng/g**
PCB 102 (BZ)		ND		0.0100	0.000324	ng/g
PCB 103 (BZ)		ND		0.0100	0.000330	ng/g
PCB 104 (BZ)		ND		0.0100	0.000250	ng/g
PCB 105 (BZ)		ND		0.0100	0.000236	ng/g
PCB 106 (BZ)		ND		0.0100	0.000252	ng/g
PCB 107 (BZ)/109 (IUPAC)		ND		0.0100	0.000244	ng/g
PCB 108 (BZ)/107 (IUPAC)		ND		0.0100	0.000257	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 014	**Work Order #....:**	LT36J1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	ND		0.0100	0.000288	ng/g
PCB 110 (BZ)	**0.000651**	**Q C J**	**0.0100**	**0.000249**	**ng/g**
PCB 111 (BZ)	ND		0.0100	0.000235	ng/g
PCB 112 (BZ)	ND		0.0100	0.000256	ng/g
PCB 113 (BZ)	**0.000535**	**Q C90 J**	**0.0100**	**0.000293**	**ng/g**
PCB 114 (BZ)	ND		0.0100	0.000230	ng/g
PCB 115 (BZ)	**0.000651**	**Q C110 J**	**0.0100**	**0.000249**	**ng/g**
PCB 116 (BZ)	ND		0.0100	0.000281	ng/g
PCB 117 (BZ)	ND		0.0100	0.000281	ng/g
PCB 118 (BZ)	**0.000538**	**Q J**	**0.0100**	**0.000240**	**ng/g**
PCB 119 (BZ)	ND		0.0100	0.000288	ng/g
PCB 120 (BZ)	ND		0.0100	0.000242	ng/g
PCB 121 (BZ)	ND		0.0100	0.000244	ng/g
PCB 122 (BZ)	ND		0.0100	0.000274	ng/g
PCB 123 (BZ)	ND		0.0100	0.000251	ng/g
PCB 124 (BZ)	ND		0.0100	0.000257	ng/g
PCB 125 (BZ)	ND		0.0100	0.000288	ng/g
PCB 126 (BZ)	ND		0.0100	0.000251	ng/g
PCB 127 (BZ)	ND		0.0100	0.000249	ng/g
PCB 128 (BZ)	ND		0.0100	0.000333	ng/g
PCB 129 (BZ)	ND		0.0100	0.000344	ng/g
PCB 130 (BZ)	ND		0.0100	0.000445	ng/g
PCB 131 (BZ)	ND		0.0100	0.000456	ng/g
PCB 132 (BZ)	ND		0.0100	0.000434	ng/g
PCB 133 (BZ)	ND		0.0100	0.000418	ng/g
PCB 134 (BZ)	ND		0.0100	0.000445	ng/g
PCB 135 (BZ)	ND		0.0100	0.000380	ng/g
PCB 136 (BZ)	ND		0.0100	0.000279	ng/g
PCB 137 (BZ)	ND		0.0100	0.000384	ng/g
PCB 138 (BZ)	ND		0.0100	0.000344	ng/g
PCB 139 (BZ)	ND		0.0100	0.000381	ng/g
PCB 140 (BZ)	ND		0.0100	0.000381	ng/g
PCB 141 (BZ)	ND		0.0100	0.000397	ng/g
PCB 142 (BZ)	ND		0.0100	0.000438	ng/g
PCB 143 (BZ)	ND		0.0100	0.000445	ng/g
PCB 144 (BZ)	ND		0.0100	0.000353	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 014	**Work Order #....:**	LT36J1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND	0.0100	0.000267	ng/g
PCB 146 (BZ)	ND	0.0100	0.000362	ng/g
PCB 147 (BZ)	ND	0.0100	0.000370	ng/g
PCB 148 (BZ)	ND	0.0100	0.000373	ng/g
PCB 149 (BZ)	ND	0.0100	0.000370	ng/g
PCB 150 (BZ)	ND	0.0100	0.000260	ng/g
PCB 151 (BZ)	ND	0.0100	0.000380	ng/g
PCB 152 (BZ)	ND	0.0100	0.000265	ng/g
PCB 153 (BZ)	ND	0.0100	0.000298	ng/g
PCB 154 (BZ)	ND	0.0100	0.000309	ng/g
PCB 155 (BZ)	ND	0.0100	0.000253	ng/g
PCB 156 (BZ)	ND	0.0100	0.000354	ng/g
PCB 157 (BZ)	ND	0.0100	0.000354	ng/g
PCB 158 (BZ)	ND	0.0100	0.000272	ng/g
PCB 159 (BZ)	ND	0.0100	0.000291	ng/g
PCB 160 (BZ)	ND	0.0100	0.000344	ng/g
PCB 161 (BZ)	ND	0.0100	0.000290	ng/g
PCB 162 (BZ)	ND	0.0100	0.000288	ng/g
PCB 163 (BZ)	ND	0.0100	0.000344	ng/g
PCB 164 (BZ)	ND	0.0100	0.000303	ng/g
PCB 165 (BZ)	ND	0.0100	0.000319	ng/g
PCB 166 (BZ)	ND	0.0100	0.000333	ng/g
PCB 167 (BZ)	ND	0.0100	0.000218	ng/g
PCB 168 (BZ)	ND	0.0100	0.000298	ng/g
PCB 169 (BZ)	ND	0.0100	0.000232	ng/g
PCB 170 (BZ)	ND	0.0100	0.000386	ng/g
PCB 171 (BZ)	ND	0.0100	0.000380	ng/g
PCB 172 (BZ)	ND	0.0100	0.000376	ng/g
PCB 173 (BZ)	ND	0.0100	0.000380	ng/g
PCB 174 (BZ)	ND	0.0100	0.000352	ng/g
PCB 175 (BZ)	ND	0.0100	0.000338	ng/g
PCB 176 (BZ)	ND	0.0100	0.000258	ng/g
PCB 177 (BZ)	ND	0.0100	0.000361	ng/g
PCB 178 (BZ)	ND	0.0100	0.000366	ng/g
PCB 179 (BZ)	ND	0.0100	0.000272	ng/g
PCB 180 (BZ)	ND	0.0100	0.000287	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 014	**Work Order #....:**	LT36J1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND	0.0100	0.000338	ng/g
PCB 182 (BZ)	ND	0.0100	0.000328	ng/g
PCB 183 (BZ)	ND	0.0100	0.000336	ng/g
PCB 184 (BZ)	ND	0.0100	0.000279	ng/g
PCB 185 (BZ)	ND	0.0100	0.000336	ng/g
PCB 186 (BZ)	ND	0.0100	0.000271	ng/g
PCB 187 (BZ)	ND	0.0100	0.000314	ng/g
PCB 188 (BZ)	ND	0.0100	0.000244	ng/g
PCB 189 (BZ)	ND	0.0100	0.000230	ng/g
PCB 190 (BZ)	ND	0.0100	0.000262	ng/g
PCB 191 (BZ)	ND	0.0100	0.000257	ng/g
PCB 192 (BZ)	ND	0.0100	0.000287	ng/g
PCB 193 (BZ)	ND	0.0100	0.000287	ng/g
PCB 194 (BZ)	ND	0.0100	0.000222	ng/g
PCB 195 (BZ)	ND	0.0100	0.000240	ng/g
PCB 196 (BZ)	ND	0.0100	0.000273	ng/g
PCB 197 (BZ)	ND	0.0100	0.000203	ng/g
PCB 198 (BZ)	ND	0.0100	0.000282	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND	0.0100	0.000282	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND	0.0100	0.000200	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND	0.0100	0.000193	ng/g
PCB 202 (BZ)	ND	0.0100	0.000217	ng/g
PCB 203 (BZ)	ND	0.0100	0.000252	ng/g
PCB 204 (BZ)	ND	0.0100	0.000211	ng/g
PCB 205 (BZ)	ND	0.0100	0.000187	ng/g
PCB 206 (BZ)	ND	0.0100	0.000301	ng/g
PCB 207 (BZ)	ND	0.0100	0.000214	ng/g
PCB 208 (BZ)	ND	0.0100	0.000223	ng/g
PCB 209 (BZ)	ND	0.0100	0.000357	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 014	**Work Order #....:**	LT36J1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	70		30 - 140
13C12-PCB 3	61		30 - 140
13C12-PCB 4	82		30 - 140
13C12-PCB 15	74		30 - 140
13C12-PCB 19	80		30 - 140
13C12-PCB 37	78		30 - 140
13C12-PCB 54	80		30 - 140
13C12-PCB 77	74		30 - 140
13C12-PCB 81	76		30 - 140
13C12-PCB 104	86		30 - 140
13C12-PCB 105	85		30 - 140
13C12-PCB 114	87		30 - 140
13C12-PCB 118	83		30 - 140
13C12-PCB 123	84		30 - 140
13C12-PCB 126	87		30 - 140
13C12-PCB 155	98		30 - 140
13C12-PCB 156	85	C	30 - 140
13C12-PCB 157	85	C	30 - 140
13C12-PCB 167	83		30 - 140
13C12-PCB 169	82		30 - 140
13C12-PCB 170	94		30 - 140
13C12-PCB 188	99		30 - 140
13C12-PCB 189	94		30 - 140
13C12-PCB 202	113		30 - 140
13C12-PCB 205	98		30 - 140
13C12-PCB 206	103		30 - 140
13C12-PCB 208	98		30 - 140
13C12-PCB 209	101		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	82	40 - 125
13C12-PCB 111	87	40 - 125
13C12-PCB 178	86	40 - 125

RJ Lee Group Inc.

Sample ID: WA110820090010-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 014	**Work Order #....:**	LT36J1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA110820090010-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 015	Work Order #....:	LT36K1AA	Matrix....:	SOLID
Date Sampled....:	07/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.0000990	ng/g
PCB 2 (BZ)		ND		0.0100	0.000122	ng/g
PCB 3 (BZ)		ND		0.0100	0.000156	ng/g
PCB 4 (BZ)		ND		0.0200	0.00156	ng/g
PCB 5 (BZ)		ND		0.0100	0.00139	ng/g
PCB 6 (BZ)		ND		0.0100	0.00131	ng/g
PCB 7 (BZ)		ND		0.0100	0.00135	ng/g
PCB 8 (BZ)		**0.00120**	**Q B J**	**0.0200**	**0.00128**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00135	ng/g
PCB 10 (BZ)		ND		0.0100	0.00145	ng/g
PCB 11 (BZ)	0.02U	**0.00270**	**Q B J**	**0.0200**	**0.00129**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00132	ng/g
PCB 13 (BZ)		ND		0.0100	0.00132	ng/g
PCB 14 (BZ)		ND		0.0100	0.00114	ng/g
PCB 15 (BZ)		ND		0.0100	0.00153	ng/g
PCB 16 (BZ)		ND		0.0100	0.000622	ng/g
PCB 17 (BZ)		ND		0.0100	0.000518	ng/g
PCB 18 (BZ)		**0.00114**	**Q C J**	**0.0200**	**0.000459**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000635	ng/g
PCB 20 (BZ)	0.02U	**0.00103**	**Q B C J**	**0.0200**	**0.000361**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000896**	**B C J**	**0.0100**	**0.000362**	**ng/g**
PCB 22 (BZ)		**0.000386**	**Q J**	**0.0100**	**0.000368**	**ng/g**
PCB 23 (BZ)		ND		0.0100	0.000375	ng/g
PCB 24 (BZ)		ND		0.0100	0.000434	ng/g
PCB 25 (BZ)		ND		0.0100	0.000335	ng/g
PCB 26 (BZ)		ND		0.0100	0.000355	ng/g
PCB 27 (BZ)		ND		0.0100	0.000375	ng/g
PCB 28 (BZ)	0.02U	**0.00103**	**Q B C20 J**	**0.0200**	**0.000361**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000355	ng/g
PCB 30 (BZ)		**0.00114**	**Q C18 J**	**0.0200**	**0.000459**	**ng/g**
PCB 31 (BZ)	0.02U	**0.000919**	**Q B J**	**0.0200**	**0.000353**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000367	ng/g
PCB 33 (BZ)	0.01U	**0.000896**	**B C21 J**	**0.0100**	**0.000362**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000370	ng/g
PCB 35 (BZ)		ND		0.0100	0.000380	ng/g
PCB 36 (BZ)		ND		0.0100	0.000367	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 015	Work Order #....:	LT36K1AA	Matrix....:	SOLID
Date Sampled....:	07/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000377	ng/g
PCB 38 (BZ)		ND		0.0100	0.000387	ng/g
PCB 39 (BZ)		ND		0.0100	0.000344	ng/g
PCB 40 (BZ)		ND		0.0100	0.000450	ng/g
PCB 41 (BZ)		ND		0.0100	0.000450	ng/g
PCB 42 (BZ)		ND		0.0100	0.000458	ng/g
PCB 43 (BZ)		ND		0.0100	0.000421	ng/g
PCB 44 (BZ)	0.01U	**0.00152**	**B C J**	**0.0100**	**0.000403**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000467	ng/g
PCB 46 (BZ)		ND		0.0100	0.000552	ng/g
PCB 47 (BZ)	0.01U	**0.00152**	**B C44 J**	**0.0100**	**0.000403**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000447	ng/g
PCB 49 (BZ)		ND		0.0100	0.000371	ng/g
PCB 50 (BZ)		ND		0.0100	0.000433	ng/g
PCB 51 (BZ)		ND		0.0100	0.000467	ng/g
PCB 52 (BZ)		**0.000849**	**J**	**0.0100**	**0.000434**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000433	ng/g
PCB 54 (BZ)		ND		0.0100	0.000456	ng/g
PCB 55 (BZ)		ND		0.0100	0.000349	ng/g
PCB 56 (BZ)		ND		0.0100	0.000328	ng/g
PCB 57 (BZ)		ND		0.0100	0.000332	ng/g
PCB 58 (BZ)		ND		0.0100	0.000331	ng/g
PCB 59 (BZ)		ND		0.0100	0.000321	ng/g
PCB 60 (BZ)		ND		0.0100	0.000338	ng/g
PCB 61 (BZ)		**0.000983**	**C J**	**0.0200**	**0.000320**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000321	ng/g
PCB 63 (BZ)		ND		0.0100	0.000308	ng/g
PCB 64 (BZ)		ND		0.0100	0.000304	ng/g
PCB 65 (BZ)	0.01U	**0.00152**	**B C44 J**	**0.0100**	**0.000403**	**ng/g**
PCB 66 (BZ)		ND		0.0100	0.000318	ng/g
PCB 67 (BZ)		ND		0.0100	0.000299	ng/g
PCB 68 (BZ)		ND		0.0100	0.000301	ng/g
PCB 69 (BZ)		ND		0.0100	0.000371	ng/g
PCB 70 (BZ)		**0.000983**	**C61 J**	**0.0200**	**0.000320**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000450	ng/g
PCB 72 (BZ)		ND		0.0100	0.000323	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 015	**Work Order #....:**	LT36K1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND		0.0100	0.000421	ng/g
PCB 74 (BZ)	**0.000983**	**C61 J**	**0.0200**	**0.000320**	**ng/g**
PCB 75 (BZ)	ND		0.0100	0.000321	ng/g
PCB 76 (BZ)	**0.000983**	**C61 J**	**0.0200**	**0.000320**	**ng/g**
PCB 77 (BZ)	ND		0.0100	0.000309	ng/g
PCB 78 (BZ)	ND		0.0100	0.000343	ng/g
PCB 79 (BZ)	ND		0.0100	0.000301	ng/g
PCB 80 (BZ)	ND		0.0100	0.000294	ng/g
PCB 81 (BZ)	ND		0.0100	0.000313	ng/g
PCB 82 (BZ)	ND		0.0100	0.000425	ng/g
PCB 83 (BZ)	ND		0.0100	0.000357	ng/g
PCB 84 (BZ)	ND		0.0100	0.000406	ng/g
PCB 85 (BZ)	ND		0.0100	0.000294	ng/g
PCB 86 (BZ)	ND		0.0100	0.000301	ng/g
PCB 87 (BZ)	ND		0.0100	0.000301	ng/g
PCB 88 (BZ)	ND		0.0100	0.000362	ng/g
PCB 89 (BZ)	ND		0.0100	0.000393	ng/g
PCB 90 (BZ)	ND		0.0100	0.000306	ng/g
PCB 91 (BZ)	ND		0.0100	0.000362	ng/g
PCB 92 (BZ)	ND		0.0100	0.000347	ng/g
PCB 93 (BZ)	ND		0.0100	0.000349	ng/g
PCB 94 (BZ)	ND		0.0100	0.000392	ng/g
PCB 95 (BZ)	ND		0.0100	0.000370	ng/g
PCB 96 (BZ)	ND		0.0100	0.000294	ng/g
PCB 97 (BZ)	ND		0.0100	0.000301	ng/g
PCB 98 (BZ)	ND		0.0100	0.000338	ng/g
PCB 99 (BZ)	ND		0.0100	0.000357	ng/g
PCB 100 (BZ)	ND		0.0100	0.000349	ng/g
PCB 101 (BZ)	ND		0.0100	0.000306	ng/g
PCB 102 (BZ)	ND		0.0100	0.000338	ng/g
PCB 103 (BZ)	ND		0.0100	0.000344	ng/g
PCB 104 (BZ)	ND		0.0100	0.000262	ng/g
PCB 105 (BZ)	ND		0.0100	0.000231	ng/g
PCB 106 (BZ)	ND		0.0100	0.000243	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND		0.0100	0.000236	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND		0.0100	0.000248	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 015	Work Order #....:	LT36K1AA	Matrix....:	SOLID
Date Sampled....:	07/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)		ND		0.0100	0.000301	ng/g
PCB 110 (BZ)		ND		0.0100	0.000260	ng/g
PCB 111 (BZ)		ND		0.0100	0.000246	ng/g
PCB 112 (BZ)		ND		0.0100	0.000267	ng/g
PCB 113 (BZ)		ND		0.0100	0.000306	ng/g
PCB 114 (BZ)		ND		0.0100	0.000223	ng/g
PCB 115 (BZ)		ND		0.0100	0.000260	ng/g
PCB 116 (BZ)		ND		0.0100	0.000294	ng/g
PCB 117 (BZ)		ND		0.0100	0.000294	ng/g
PCB 118 (BZ)		ND		0.0100	0.000237	ng/g
PCB 119 (BZ)		ND		0.0100	0.000301	ng/g
PCB 120 (BZ)		ND		0.0100	0.000253	ng/g
PCB 121 (BZ)		ND		0.0100	0.000255	ng/g
PCB 122 (BZ)		ND		0.0100	0.000264	ng/g
PCB 123 (BZ)		ND		0.0100	0.000243	ng/g
PCB 124 (BZ)		ND		0.0100	0.000248	ng/g
PCB 125 (BZ)		ND		0.0100	0.000301	ng/g
PCB 126 (BZ)		ND		0.0100	0.000231	ng/g
PCB 127 (BZ)		ND		0.0100	0.000240	ng/g
PCB 128 (BZ)		ND		0.0100	0.000408	ng/g
PCB 129 (BZ)	0.01U	**0.000750**	**B C J**	**0.0100**	**0.000422**	**ng/g**
PCB 130 (BZ)		ND		0.0100	0.000544	ng/g
PCB 131 (BZ)		ND		0.0100	0.000558	ng/g
PCB 132 (BZ)		ND		0.0100	0.000531	ng/g
PCB 133 (BZ)		ND		0.0100	0.000512	ng/g
PCB 134 (BZ)		ND		0.0100	0.000545	ng/g
PCB 135 (BZ)		ND		0.0100	0.000536	ng/g
PCB 136 (BZ)		ND		0.0100	0.000393	ng/g
PCB 137 (BZ)		ND		0.0100	0.000470	ng/g
PCB 138 (BZ)	0.01U	**0.000750**	**B C129 J**	**0.0100**	**0.000422**	**ng/g**
PCB 139 (BZ)		ND		0.0100	0.000467	ng/g
PCB 140 (BZ)		ND		0.0100	0.000467	ng/g
PCB 141 (BZ)		ND		0.0100	0.000486	ng/g
PCB 142 (BZ)		ND		0.0100	0.000536	ng/g
PCB 143 (BZ)		ND		0.0100	0.000545	ng/g
PCB 144 (BZ)		ND		0.0100	0.000497	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 015	**Work Order #....:**	LT36K1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)		ND		0.0100	0.000376	ng/g
PCB 146 (BZ)		ND		0.0100	0.000444	ng/g
PCB 147 (BZ)		ND		0.0100	0.000453	ng/g
PCB 148 (BZ)		ND		0.0100	0.000526	ng/g
PCB 149 (BZ)		ND		0.0100	0.000453	ng/g
PCB 150 (BZ)		ND		0.0100	0.000367	ng/g
PCB 151 (BZ)		ND		0.0100	0.000536	ng/g
PCB 152 (BZ)		ND		0.0100	0.000374	ng/g
PCB 153 (BZ)	0.01U	**0.000505**	**B C J**	**0.0100**	**0.000365**	**ng/g**
PCB 154 (BZ)		ND		0.0100	0.000436	ng/g
PCB 155 (BZ)		ND		0.0100	0.000356	ng/g
PCB 156 (BZ)		ND		0.0100	0.000444	ng/g
PCB 157 (BZ)		ND		0.0100	0.000444	ng/g
PCB 158 (BZ)		ND		0.0100	0.000333	ng/g
PCB 159 (BZ)		ND		0.0100	0.000357	ng/g
PCB 160 (BZ)	0.01U	**0.000750**	**B C129 J**	**0.0100**	**0.000422**	**ng/g**
PCB 161 (BZ)		ND		0.0100	0.000355	ng/g
PCB 162 (BZ)		ND		0.0100	0.000352	ng/g
PCB 163 (BZ)	0.01U	**0.000750**	**B C129 J**	**0.0100**	**0.000422**	**ng/g**
PCB 164 (BZ)		ND		0.0100	0.000371	ng/g
PCB 165 (BZ)		ND		0.0100	0.000390	ng/g
PCB 166 (BZ)		ND		0.0100	0.000408	ng/g
PCB 167 (BZ)		ND		0.0100	0.000273	ng/g
PCB 168 (BZ)	0.01U	**0.000505**	**B C153 J**	**0.0100**	**0.000365**	**ng/g**
PCB 169 (BZ)		ND		0.0100	0.000268	ng/g
PCB 170 (BZ)		ND		0.0100	0.000459	ng/g
PCB 171 (BZ)		ND		0.0100	0.000456	ng/g
PCB 172 (BZ)		ND		0.0100	0.000451	ng/g
PCB 173 (BZ)		ND		0.0100	0.000456	ng/g
PCB 174 (BZ)		ND		0.0100	0.000422	ng/g
PCB 175 (BZ)		ND		0.0100	0.000406	ng/g
PCB 176 (BZ)		ND		0.0100	0.000309	ng/g
PCB 177 (BZ)		ND		0.0100	0.000433	ng/g
PCB 178 (BZ)		ND		0.0100	0.000439	ng/g
PCB 179 (BZ)		ND		0.0100	0.000326	ng/g
PCB 180 (BZ)		ND		0.0100	0.000344	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA110820090010-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 015	**Work Order #....:**	LT36K1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND	0.0100	0.000405	ng/g
PCB 182 (BZ)	ND	0.0100	0.000394	ng/g
PCB 183 (BZ)	ND	0.0100	0.000403	ng/g
PCB 184 (BZ)	ND	0.0100	0.000335	ng/g
PCB 185 (BZ)	ND	0.0100	0.000403	ng/g
PCB 186 (BZ)	ND	0.0100	0.000325	ng/g
PCB 187 (BZ)	ND	0.0100	0.000377	ng/g
PCB 188 (BZ)	ND	0.0100	0.000294	ng/g
PCB 189 (BZ)	ND	0.0100	0.000258	ng/g
PCB 190 (BZ)	ND	0.0100	0.000314	ng/g
PCB 191 (BZ)	ND	0.0100	0.000309	ng/g
PCB 192 (BZ)	ND	0.0100	0.000345	ng/g
PCB 193 (BZ)	ND	0.0100	0.000344	ng/g
PCB 194 (BZ)	ND	0.0100	0.000329	ng/g
PCB 195 (BZ)	ND	0.0100	0.000357	ng/g
PCB 196 (BZ)	ND	0.0100	0.000436	ng/g
PCB 197 (BZ)	ND	0.0100	0.000325	ng/g
PCB 198 (BZ)	ND	0.0100	0.000450	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND	0.0100	0.000450	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND	0.0100	0.000319	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND	0.0100	0.000308	ng/g
PCB 202 (BZ)	ND	0.0100	0.000347	ng/g
PCB 203 (BZ)	ND	0.0100	0.000402	ng/g
PCB 204 (BZ)	ND	0.0100	0.000337	ng/g
PCB 205 (BZ)	ND	0.0100	0.000277	ng/g
PCB 206 (BZ)	ND	0.0100	0.000349	ng/g
PCB 207 (BZ)	ND	0.0100	0.000260	ng/g
PCB 208 (BZ)	ND	0.0100	0.000279	ng/g
PCB 209 (BZ)	ND	0.0100	0.000381	ng/g

RJ Lee Group Inc.

Sample ID: WA110820090010-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 015	**Work Order #....:**	LT36K1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	69		30 - 140
13C12-PCB 3	62		30 - 140
13C12-PCB 4	85		30 - 140
13C12-PCB 15	77		30 - 140
13C12-PCB 19	86		30 - 140
13C12-PCB 37	80		30 - 140
13C12-PCB 54	78		30 - 140
13C12-PCB 77	79		30 - 140
13C12-PCB 81	78		30 - 140
13C12-PCB 104	85		30 - 140
13C12-PCB 105	83		30 - 140
13C12-PCB 114	84		30 - 140
13C12-PCB 118	81		30 - 140
13C12-PCB 123	82		30 - 140
13C12-PCB 126	87		30 - 140
13C12-PCB 155	94		30 - 140
13C12-PCB 156	89	C	30 - 140
13C12-PCB 157	89	C	30 - 140
13C12-PCB 167	84		30 - 140
13C12-PCB 169	88		30 - 140
13C12-PCB 170	93		30 - 140
13C12-PCB 188	95		30 - 140
13C12-PCB 189	91		30 - 140
13C12-PCB 202	110		30 - 140
13C12-PCB 205	98		30 - 140
13C12-PCB 206	102		30 - 140
13C12-PCB 208	94		30 - 140
13C12-PCB 209	99		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	82	40 - 125
13C12-PCB 111	87	40 - 125
13C12-PCB 178	84	40 - 125

RJ Lee Group Inc.

Sample ID: WA110820090010-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 015	**Work Order #....:**	LT36K1AA	**Matrix....:**	SOLID
Date Sampled....:	07/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA180820090011-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 016	**Work Order #....:**	LT36L1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000121	ng/g
PCB 2 (BZ)		ND		0.0100	0.000151	ng/g
PCB 3 (BZ)		ND		0.0100	0.000197	ng/g
PCB 4 (BZ)		ND		0.0200	0.00237	ng/g
PCB 5 (BZ)		ND		0.0100	0.00216	ng/g
PCB 6 (BZ)		ND		0.0100	0.00203	ng/g
PCB 7 (BZ)		ND		0.0100	0.00209	ng/g
PCB 8 (BZ)		**0.00150**	**Q B J**	**0.0200**	**0.00199**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00210	ng/g
PCB 10 (BZ)		ND		0.0100	0.00226	ng/g
PCB 11 (BZ)	0.02U	**0.00236**	**Q B J**	**0.0200**	**0.00200**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00205	ng/g
PCB 13 (BZ)		ND		0.0100	0.00205	ng/g
PCB 14 (BZ)		ND		0.0100	0.00177	ng/g
PCB 15 (BZ)		ND		0.0100	0.00244	ng/g
PCB 16 (BZ)		ND		0.0100	0.000708	ng/g
PCB 17 (BZ)		ND		0.0100	0.000590	ng/g
PCB 18 (BZ)		**0.00124**	**Q C J**	**0.0200**	**0.000523**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000724	ng/g
PCB 20 (BZ)	0.02U	**0.00150**	**B C J**	**0.0200**	**0.000392**	**ng/g**
PCB 21 (BZ)		ND		0.0100	0.000393	ng/g
PCB 22 (BZ)		**0.000555**	**Q J**	**0.0100**	**0.000399**	**ng/g**
PCB 23 (BZ)		ND		0.0100	0.000407	ng/g
PCB 24 (BZ)		ND		0.0100	0.000495	ng/g
PCB 25 (BZ)		ND		0.0100	0.000363	ng/g
PCB 26 (BZ)		ND		0.0100	0.000385	ng/g
PCB 27 (BZ)		ND		0.0100	0.000427	ng/g
PCB 28 (BZ)	0.02U	**0.00150**	**B C20 J**	**0.0200**	**0.000392**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000385	ng/g
PCB 30 (BZ)		**0.00124**	**Q C18 J**	**0.0200**	**0.000523**	**ng/g**
PCB 31 (BZ)	0.02U	**0.000967**	**Q B J**	**0.0200**	**0.000383**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000418	ng/g
PCB 33 (BZ)		ND		0.0100	0.000393	ng/g
PCB 34 (BZ)		ND		0.0100	0.000401	ng/g
PCB 35 (BZ)		ND		0.0100	0.000412	ng/g
PCB 36 (BZ)		ND		0.0100	0.000398	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 016	Work Order #....:	LT36L1AA	Matrix....:	SOLID
Date Sampled....:	08/11/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000408	ng/g
PCB 38 (BZ)		ND		0.0100	0.000420	ng/g
PCB 39 (BZ)		ND		0.0100	0.000373	ng/g
PCB 40 (BZ)		ND		0.0100	0.000542	ng/g
PCB 41 (BZ)		ND		0.0100	0.000542	ng/g
PCB 42 (BZ)		ND		0.0100	0.000551	ng/g
PCB 43 (BZ)		ND		0.0100	0.000506	ng/g
PCB 44 (BZ)	0.01U	**0.00150**	**Q B C J**	**0.0100**	**0.000484**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000561	ng/g
PCB 46 (BZ)		ND		0.0100	0.000664	ng/g
PCB 47 (BZ)	0.01U	**0.00150**	**Q B C44 J**	**0.0100**	**0.000484**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000537	ng/g
PCB 49 (BZ)		ND		0.0100	0.000446	ng/g
PCB 50 (BZ)		ND		0.0100	0.000521	ng/g
PCB 51 (BZ)		ND		0.0100	0.000561	ng/g
PCB 52 (BZ)		**0.000970**	**Q J**	**0.0100**	**0.000522**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000521	ng/g
PCB 54 (BZ)		ND		0.0100	0.000536	ng/g
PCB 55 (BZ)		ND		0.0100	0.000420	ng/g
PCB 56 (BZ)		ND		0.0100	0.000395	ng/g
PCB 57 (BZ)		ND		0.0100	0.000399	ng/g
PCB 58 (BZ)		ND		0.0100	0.000398	ng/g
PCB 59 (BZ)		ND		0.0100	0.000386	ng/g
PCB 60 (BZ)		ND		0.0100	0.000407	ng/g
PCB 61 (BZ)		**0.00107**	**Q C J**	**0.0200**	**0.000385**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000386	ng/g
PCB 63 (BZ)		ND		0.0100	0.000370	ng/g
PCB 64 (BZ)		ND		0.0100	0.000365	ng/g
PCB 65 (BZ)	0.01U	**0.00150**	**Q B C44 J**	**0.0100**	**0.000484**	**ng/g**
PCB 66 (BZ)		ND		0.0100	0.000383	ng/g
PCB 67 (BZ)		ND		0.0100	0.000359	ng/g
PCB 68 (BZ)		ND		0.0100	0.000362	ng/g
PCB 69 (BZ)		ND		0.0100	0.000446	ng/g
PCB 70 (BZ)		**0.00107**	**Q C61 J**	**0.0200**	**0.000385**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000542	ng/g
PCB 72 (BZ)		ND		0.0100	0.000389	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 016	**Work Order #....:**	LT36L1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND		0.0100	0.000506	ng/g
PCB 74 (BZ)	**0.00107**	**Q C61 J**	**0.0200**	**0.000385**	**ng/g**
PCB 75 (BZ)	ND		0.0100	0.000386	ng/g
PCB 76 (BZ)	**0.00107**	**Q C61 J**	**0.0200**	**0.000385**	**ng/g**
PCB 77 (BZ)	ND		0.0100	0.000379	ng/g
PCB 78 (BZ)	ND		0.0100	0.000413	ng/g
PCB 79 (BZ)	ND		0.0100	0.000362	ng/g
PCB 80 (BZ)	ND		0.0100	0.000354	ng/g
PCB 81 (BZ)	ND		0.0100	0.000369	ng/g
PCB 82 (BZ)	ND		0.0100	0.000431	ng/g
PCB 83 (BZ)	ND		0.0100	0.000362	ng/g
PCB 84 (BZ)	ND		0.0100	0.000412	ng/g
PCB 85 (BZ)	ND		0.0100	0.000298	ng/g
PCB 86 (BZ)	ND		0.0100	0.000305	ng/g
PCB 87 (BZ)	ND		0.0100	0.000305	ng/g
PCB 88 (BZ)	ND		0.0100	0.000367	ng/g
PCB 89 (BZ)	ND		0.0100	0.000398	ng/g
PCB 90 (BZ)	ND		0.0100	0.000310	ng/g
PCB 91 (BZ)	ND		0.0100	0.000367	ng/g
PCB 92 (BZ)	ND		0.0100	0.000352	ng/g
PCB 93 (BZ)	ND		0.0100	0.000354	ng/g
PCB 94 (BZ)	ND		0.0100	0.000398	ng/g
PCB 95 (BZ)	ND		0.0100	0.000375	ng/g
PCB 96 (BZ)	ND		0.0100	0.000298	ng/g
PCB 97 (BZ)	ND		0.0100	0.000305	ng/g
PCB 98 (BZ)	ND		0.0100	0.000343	ng/g
PCB 99 (BZ)	ND		0.0100	0.000362	ng/g
PCB 100 (BZ)	ND		0.0100	0.000354	ng/g
PCB 101 (BZ)	ND		0.0100	0.000310	ng/g
PCB 102 (BZ)	ND		0.0100	0.000343	ng/g
PCB 103 (BZ)	ND		0.0100	0.000349	ng/g
PCB 104 (BZ)	ND		0.0100	0.000265	ng/g
PCB 105 (BZ)	ND		0.0100	0.000249	ng/g
PCB 106 (BZ)	ND		0.0100	0.000264	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND		0.0100	0.000256	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND		0.0100	0.000269	ng/g

RJ Lee Group Inc.

Sample ID: WA180820090011-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 016	Work Order #....:	LT36L1AA	Matrix....:	SOLID
Date Sampled....:	08/11/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)		ND		0.0100	0.000305	ng/g
PCB 110 (BZ)		ND		0.0100	0.000263	ng/g
PCB 111 (BZ)		ND		0.0100	0.000249	ng/g
PCB 112 (BZ)		ND		0.0100	0.000271	ng/g
PCB 113 (BZ)		ND		0.0100	0.000310	ng/g
PCB 114 (BZ)		ND		0.0100	0.000233	ng/g
PCB 115 (BZ)		ND		0.0100	0.000263	ng/g
PCB 116 (BZ)		ND		0.0100	0.000298	ng/g
PCB 117 (BZ)		ND		0.0100	0.000298	ng/g
PCB 118 (BZ)		ND		0.0100	0.000255	ng/g
PCB 119 (BZ)		ND		0.0100	0.000305	ng/g
PCB 120 (BZ)		ND		0.0100	0.000257	ng/g
PCB 121 (BZ)		ND		0.0100	0.000259	ng/g
PCB 122 (BZ)		ND		0.0100	0.000287	ng/g
PCB 123 (BZ)		ND		0.0100	0.000265	ng/g
PCB 124 (BZ)		ND		0.0100	0.000269	ng/g
PCB 125 (BZ)		ND		0.0100	0.000305	ng/g
PCB 126 (BZ)		ND		0.0100	0.000263	ng/g
PCB 127 (BZ)		ND		0.0100	0.000261	ng/g
PCB 128 (BZ)		ND		0.0100	0.000410	ng/g
PCB 129 (BZ)	0.01U	**0.000958**	**Q B C J**	**0.0100**	**0.000424**	**ng/g**
PCB 130 (BZ)		ND		0.0100	0.000547	ng/g
PCB 131 (BZ)		ND		0.0100	0.000560	ng/g
PCB 132 (BZ)		ND		0.0100	0.000533	ng/g
PCB 133 (BZ)		ND		0.0100	0.000514	ng/g
PCB 134 (BZ)		ND		0.0100	0.000548	ng/g
PCB 135 (BZ)		ND		0.0100	0.000477	ng/g
PCB 136 (BZ)		ND		0.0100	0.000350	ng/g
PCB 137 (BZ)		ND		0.0100	0.000472	ng/g
PCB 138 (BZ)	0.01U	**0.000958**	**Q B C129 J**	**0.0100**	**0.000424**	**ng/g**
PCB 139 (BZ)		ND		0.0100	0.000469	ng/g
PCB 140 (BZ)		ND		0.0100	0.000469	ng/g
PCB 141 (BZ)		ND		0.0100	0.000488	ng/g
PCB 142 (BZ)		ND		0.0100	0.000539	ng/g
PCB 143 (BZ)		ND		0.0100	0.000548	ng/g
PCB 144 (BZ)		ND		0.0100	0.000443	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 016	**Work Order #....:**	LT36L1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)		ND		0.0100	0.000335	ng/g
PCB 146 (BZ)		ND		0.0100	0.000446	ng/g
PCB 147 (BZ)		**0.000780**	**Q C J**	**0.0100**	**0.000456**	**ng/g**
PCB 148 (BZ)		ND		0.0100	0.000468	ng/g
PCB 149 (BZ)		**0.000780**	**Q C147 J**	**0.0100**	**0.000456**	**ng/g**
PCB 150 (BZ)		ND		0.0100	0.000326	ng/g
PCB 151 (BZ)		ND		0.0100	0.000477	ng/g
PCB 152 (BZ)		ND		0.0100	0.000333	ng/g
PCB 153 (BZ)		ND		0.0100	0.000366	ng/g
PCB 154 (BZ)		ND		0.0100	0.000388	ng/g
PCB 155 (BZ)		ND		0.0100	0.000317	ng/g
PCB 156 (BZ)		ND		0.0100	0.000436	ng/g
PCB 157 (BZ)		ND		0.0100	0.000436	ng/g
PCB 158 (BZ)		ND		0.0100	0.000334	ng/g
PCB 159 (BZ)		ND		0.0100	0.000358	ng/g
PCB 160 (BZ)	0.01U	**0.000958**	**Q B C129 J**	**0.0100**	**0.000424**	**ng/g**
PCB 161 (BZ)		ND		0.0100	0.000357	ng/g
PCB 162 (BZ)		ND		0.0100	0.000354	ng/g
PCB 163 (BZ)	0.01U	**0.000958**	**Q B C129 J**	**0.0100**	**0.000424**	**ng/g**
PCB 164 (BZ)		ND		0.0100	0.000373	ng/g
PCB 165 (BZ)		ND		0.0100	0.000392	ng/g
PCB 166 (BZ)		ND		0.0100	0.000410	ng/g
PCB 167 (BZ)		ND		0.0100	0.000275	ng/g
PCB 168 (BZ)		ND		0.0100	0.000366	ng/g
PCB 169 (BZ)		ND		0.0100	0.000278	ng/g
PCB 170 (BZ)		ND		0.0100	0.000397	ng/g
PCB 171 (BZ)		ND		0.0100	0.000394	ng/g
PCB 172 (BZ)		ND		0.0100	0.000390	ng/g
PCB 173 (BZ)		ND		0.0100	0.000394	ng/g
PCB 174 (BZ)		ND		0.0100	0.000365	ng/g
PCB 175 (BZ)		ND		0.0100	0.000351	ng/g
PCB 176 (BZ)		ND		0.0100	0.000267	ng/g
PCB 177 (BZ)		ND		0.0100	0.000374	ng/g
PCB 178 (BZ)		ND		0.0100	0.000379	ng/g
PCB 179 (BZ)		ND		0.0100	0.000282	ng/g
PCB 180 (BZ)		ND		0.0100	0.000298	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 016	Work Order #....:	LT36L1AA	Matrix....:	SOLID
Date Sampled....:	08/11/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/09/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND	0.0100	0.000350	ng/g
PCB 182 (BZ)	ND	0.0100	0.000341	ng/g
PCB 183 (BZ)	ND	0.0100	0.000348	ng/g
PCB 184 (BZ)	ND	0.0100	0.000289	ng/g
PCB 185 (BZ)	ND	0.0100	0.000348	ng/g
PCB 186 (BZ)	ND	0.0100	0.000281	ng/g
PCB 187 (BZ)	ND	0.0100	0.000326	ng/g
PCB 188 (BZ)	ND	0.0100	0.000255	ng/g
PCB 189 (BZ)	ND	0.0100	0.000236	ng/g
PCB 190 (BZ)	ND	0.0100	0.000272	ng/g
PCB 191 (BZ)	ND	0.0100	0.000267	ng/g
PCB 192 (BZ)	ND	0.0100	0.000298	ng/g
PCB 193 (BZ)	ND	0.0100	0.000298	ng/g
PCB 194 (BZ)	ND	0.0100	0.000309	ng/g
PCB 195 (BZ)	ND	0.0100	0.000335	ng/g
PCB 196 (BZ)	ND	0.0100	0.000369	ng/g
PCB 197 (BZ)	ND	0.0100	0.000275	ng/g
PCB 198 (BZ)	ND	0.0100	0.000381	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND	0.0100	0.000381	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND	0.0100	0.000270	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND	0.0100	0.000260	ng/g
PCB 202 (BZ)	ND	0.0100	0.000293	ng/g
PCB 203 (BZ)	ND	0.0100	0.000340	ng/g
PCB 204 (BZ)	ND	0.0100	0.000285	ng/g
PCB 205 (BZ)	ND	0.0100	0.000260	ng/g
PCB 206 (BZ)	ND	0.0100	0.000303	ng/g
PCB 207 (BZ)	ND	0.0100	0.000223	ng/g
PCB 208 (BZ)	ND	0.0100	0.000238	ng/g
PCB 209 (BZ)	ND	0.0100	0.000398	ng/g

RJ Lee Group Inc.

Sample ID: WA180820090011-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 016	**Work Order #....:**	LT36L1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	68		30 - 140
13C12-PCB 3	59		30 - 140
13C12-PCB 4	77		30 - 140
13C12-PCB 15	69		30 - 140
13C12-PCB 19	77		30 - 140
13C12-PCB 37	73		30 - 140
13C12-PCB 54	77		30 - 140
13C12-PCB 77	71		30 - 140
13C12-PCB 81	72		30 - 140
13C12-PCB 104	80		30 - 140
13C12-PCB 105	81		30 - 140
13C12-PCB 114	81		30 - 140
13C12-PCB 118	78		30 - 140
13C12-PCB 123	80		30 - 140
13C12-PCB 126	83		30 - 140
13C12-PCB 155	93		30 - 140
13C12-PCB 156	80	C	30 - 140
13C12-PCB 157	80	C	30 - 140
13C12-PCB 167	79		30 - 140
13C12-PCB 169	78		30 - 140
13C12-PCB 170	89		30 - 140
13C12-PCB 188	94		30 - 140
13C12-PCB 189	88		30 - 140
13C12-PCB 202	108		30 - 140
13C12-PCB 205	91		30 - 140
13C12-PCB 206	96		30 - 140
13C12-PCB 208	91		30 - 140
13C12-PCB 209	94		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	78	40 - 125
13C12-PCB 111	85	40 - 125
13C12-PCB 178	86	40 - 125

RJ Lee Group Inc.

Sample ID: WA180820090011-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 016	**Work Order #....:**	LT36L1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA180820090011-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 017	**Work Order #....:**	LT36N1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000105	ng/g
PCB 2 (BZ)		ND		0.0100	0.000135	ng/g
PCB 3 (BZ)		ND		0.0100	0.000185	ng/g
PCB 4 (BZ)		ND		0.0200	0.00252	ng/g
PCB 5 (BZ)		ND		0.0100	0.00240	ng/g
PCB 6 (BZ)		ND		0.0100	0.00226	ng/g
PCB 7 (BZ)		ND		0.0100	0.00232	ng/g
PCB 8 (BZ)		**0.00185**	**Q B J**	**0.0200**	**0.00221**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00233	ng/g
PCB 10 (BZ)		ND		0.0100	0.00251	ng/g
PCB 11 (BZ)	0.02U	**0.00308**	**Q B J**	**0.0200**	**0.00222**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00228	ng/g
PCB 13 (BZ)		ND		0.0100	0.00228	ng/g
PCB 14 (BZ)		ND		0.0100	0.00196	ng/g
PCB 15 (BZ)		ND		0.0100	0.00283	ng/g
PCB 16 (BZ)		ND		0.0100	0.000619	ng/g
PCB 17 (BZ)		ND		0.0100	0.000516	ng/g
PCB 18 (BZ)		ND		0.0200	0.000457	ng/g
PCB 19 (BZ)		ND		0.0100	0.000633	ng/g
PCB 20 (BZ)	0.02U	**0.00117**	**Q B C J**	**0.0200**	**0.000409**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000865**	**B C J**	**0.0100**	**0.000410**	**ng/g**
PCB 22 (BZ)		ND		0.0100	0.000417	ng/g
PCB 23 (BZ)		ND		0.0100	0.000425	ng/g
PCB 24 (BZ)		ND		0.0100	0.000433	ng/g
PCB 25 (BZ)		ND		0.0100	0.000379	ng/g
PCB 26 (BZ)		ND		0.0100	0.000403	ng/g
PCB 27 (BZ)		ND		0.0100	0.000373	ng/g
PCB 28 (BZ)	0.02U	**0.00117**	**Q B C20 J**	**0.0200**	**0.000409**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000403	ng/g
PCB 30 (BZ)		ND		0.0200	0.000457	ng/g
PCB 31 (BZ)	0.02U	**0.00120**	**B J**	**0.0200**	**0.000400**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000366	ng/g
PCB 33 (BZ)	0.01U	**0.000865**	**B C21 J**	**0.0100**	**0.000410**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000419	ng/g
PCB 35 (BZ)		ND		0.0100	0.000430	ng/g
PCB 36 (BZ)		ND		0.0100	0.000416	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 017	**Work Order #....:**	LT36N1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000427	ng/g
PCB 38 (BZ)		ND		0.0100	0.000439	ng/g
PCB 39 (BZ)		ND		0.0100	0.000390	ng/g
PCB 40 (BZ)		ND		0.0100	0.000456	ng/g
PCB 41 (BZ)		ND		0.0100	0.000456	ng/g
PCB 42 (BZ)		ND		0.0100	0.000464	ng/g
PCB 43 (BZ)		ND		0.0100	0.000426	ng/g
PCB 44 (BZ)	0.01U	**0.00119**	**B C J**	**0.0100**	**0.000408**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000473	ng/g
PCB 46 (BZ)		ND		0.0100	0.000559	ng/g
PCB 47 (BZ)	0.01U	**0.00119**	**B C44 J**	**0.0100**	**0.000408**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000453	ng/g
PCB 49 (BZ)		**0.000420**	**Q C J**	**0.0100**	**0.000376**	**ng/g**
PCB 50 (BZ)		ND		0.0100	0.000439	ng/g
PCB 51 (BZ)		ND		0.0100	0.000473	ng/g
PCB 52 (BZ)		ND		0.0100	0.000440	ng/g
PCB 53 (BZ)		ND		0.0100	0.000439	ng/g
PCB 54 (BZ)		ND		0.0100	0.000450	ng/g
PCB 55 (BZ)		ND		0.0100	0.000353	ng/g
PCB 56 (BZ)		ND		0.0100	0.000333	ng/g
PCB 57 (BZ)		ND		0.0100	0.000337	ng/g
PCB 58 (BZ)		ND		0.0100	0.000335	ng/g
PCB 59 (BZ)		ND		0.0100	0.000325	ng/g
PCB 60 (BZ)		ND		0.0100	0.000343	ng/g
PCB 61 (BZ)		ND		0.0200	0.000325	ng/g
PCB 62 (BZ)		ND		0.0100	0.000325	ng/g
PCB 63 (BZ)		ND		0.0100	0.000312	ng/g
PCB 64 (BZ)		ND		0.0100	0.000308	ng/g
PCB 65 (BZ)	0.01U	**0.00119**	**B C44 J**	**0.0100**	**0.000408**	**ng/g**
PCB 66 (BZ)		ND		0.0100	0.000322	ng/g
PCB 67 (BZ)		ND		0.0100	0.000303	ng/g
PCB 68 (BZ)		ND		0.0100	0.000305	ng/g
PCB 69 (BZ)		**0.000420**	**Q C49 J**	**0.0100**	**0.000376**	**ng/g**
PCB 70 (BZ)		ND		0.0200	0.000325	ng/g
PCB 71 (BZ)		ND		0.0100	0.000456	ng/g
PCB 72 (BZ)		ND		0.0100	0.000327	ng/g

RJ Lee Group Inc.

Sample ID: WA180820090011-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 017	Work Order #....:	LT36N1AA	Matrix....:	SOLID
Date Sampled....:	08/11/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND	0.0100	0.000426	ng/g
PCB 74 (BZ)	ND	0.0200	0.000325	ng/g
PCB 75 (BZ)	ND	0.0100	0.000325	ng/g
PCB 76 (BZ)	ND	0.0200	0.000325	ng/g
PCB 77 (BZ)	ND	0.0100	0.000325	ng/g
PCB 78 (BZ)	ND	0.0100	0.000348	ng/g
PCB 79 (BZ)	ND	0.0100	0.000305	ng/g
PCB 80 (BZ)	ND	0.0100	0.000298	ng/g
PCB 81 (BZ)	ND	0.0100	0.000305	ng/g
PCB 82 (BZ)	ND	0.0100	0.000403	ng/g
PCB 83 (BZ)	ND	0.0100	0.000339	ng/g
PCB 84 (BZ)	ND	0.0100	0.000385	ng/g
PCB 85 (BZ)	ND	0.0100	0.000279	ng/g
PCB 86 (BZ)	ND	0.0100	0.000285	ng/g
PCB 87 (BZ)	ND	0.0100	0.000285	ng/g
PCB 88 (BZ)	ND	0.0100	0.000343	ng/g
PCB 89 (BZ)	ND	0.0100	0.000373	ng/g
PCB 90 (BZ)	ND	0.0100	0.000290	ng/g
PCB 91 (BZ)	ND	0.0100	0.000343	ng/g
PCB 92 (BZ)	ND	0.0100	0.000330	ng/g
PCB 93 (BZ)	ND	0.0100	0.000331	ng/g
PCB 94 (BZ)	ND	0.0100	0.000372	ng/g
PCB 95 (BZ)	ND	0.0100	0.000351	ng/g
PCB 96 (BZ)	ND	0.0100	0.000279	ng/g
PCB 97 (BZ)	ND	0.0100	0.000285	ng/g
PCB 98 (BZ)	ND	0.0100	0.000321	ng/g
PCB 99 (BZ)	ND	0.0100	0.000339	ng/g
PCB 100 (BZ)	ND	0.0100	0.000331	ng/g
PCB 101 (BZ)	ND	0.0100	0.000290	ng/g
PCB 102 (BZ)	ND	0.0100	0.000321	ng/g
PCB 103 (BZ)	ND	0.0100	0.000327	ng/g
PCB 104 (BZ)	ND	0.0100	0.000248	ng/g
PCB 105 (BZ)	ND	0.0100	0.000257	ng/g
PCB 106 (BZ)	ND	0.0100	0.000262	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND	0.0100	0.000255	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND	0.0100	0.000268	ng/g

RJ Lee Group Inc.

Sample ID: WA180820090011-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 017	**Work Order #....:**	LT36N1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)		ND		0.0100	0.000285	ng/g
PCB 110 (BZ)		ND		0.0100	0.000246	ng/g
PCB 111 (BZ)		ND		0.0100	0.000233	ng/g
PCB 112 (BZ)		ND		0.0100	0.000253	ng/g
PCB 113 (BZ)		ND		0.0100	0.000290	ng/g
PCB 114 (BZ)		ND		0.0100	0.000234	ng/g
PCB 115 (BZ)		ND		0.0100	0.000246	ng/g
PCB 116 (BZ)		ND		0.0100	0.000279	ng/g
PCB 117 (BZ)		ND		0.0100	0.000279	ng/g
PCB 118 (BZ)		ND		0.0100	0.000243	ng/g
PCB 119 (BZ)		ND		0.0100	0.000285	ng/g
PCB 120 (BZ)		ND		0.0100	0.000240	ng/g
PCB 121 (BZ)		ND		0.0100	0.000242	ng/g
PCB 122 (BZ)		ND		0.0100	0.000286	ng/g
PCB 123 (BZ)		ND		0.0100	0.000266	ng/g
PCB 124 (BZ)		ND		0.0100	0.000268	ng/g
PCB 125 (BZ)		ND		0.0100	0.000285	ng/g
PCB 126 (BZ)		ND		0.0100	0.000260	ng/g
PCB 127 (BZ)		ND		0.0100	0.000259	ng/g
PCB 128 (BZ)		ND		0.0100	0.000410	ng/g
PCB 129 (BZ)	0.01U	**0.000774**	**B C J**	**0.0100**	**0.000424**	**ng/g**
PCB 130 (BZ)		ND		0.0100	0.000547	ng/g
PCB 131 (BZ)		ND		0.0100	0.000561	ng/g
PCB 132 (BZ)		ND		0.0100	0.000534	ng/g
PCB 133 (BZ)		ND		0.0100	0.000514	ng/g
PCB 134 (BZ)		ND		0.0100	0.000548	ng/g
PCB 135 (BZ)		ND		0.0100	0.000464	ng/g
PCB 136 (BZ)		ND		0.0100	0.000341	ng/g
PCB 137 (BZ)		ND		0.0100	0.000472	ng/g
PCB 138 (BZ)	0.01U	**0.000774**	**B C129 J**	**0.0100**	**0.000424**	**ng/g**
PCB 139 (BZ)		ND		0.0100	0.000470	ng/g
PCB 140 (BZ)		ND		0.0100	0.000470	ng/g
PCB 141 (BZ)		ND		0.0100	0.000489	ng/g
PCB 142 (BZ)		ND		0.0100	0.000539	ng/g
PCB 143 (BZ)		ND		0.0100	0.000548	ng/g
PCB 144 (BZ)		ND		0.0100	0.000431	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 017	Work Order #....:	LT36N1AA	Matrix....:	SOLID
Date Sampled....:	08/11/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)		ND		0.0100	0.000326	ng/g
PCB 146 (BZ)		ND		0.0100	0.000446	ng/g
PCB 147 (BZ)		ND		0.0100	0.000456	ng/g
PCB 148 (BZ)		ND		0.0100	0.000455	ng/g
PCB 149 (BZ)		ND		0.0100	0.000456	ng/g
PCB 150 (BZ)		ND		0.0100	0.000317	ng/g
PCB 151 (BZ)		ND		0.0100	0.000464	ng/g
PCB 152 (BZ)		ND		0.0100	0.000324	ng/g
PCB 153 (BZ)		ND		0.0100	0.000366	ng/g
PCB 154 (BZ)		ND		0.0100	0.000377	ng/g
PCB 155 (BZ)		ND		0.0100	0.000309	ng/g
PCB 156 (BZ)		ND		0.0100	0.000440	ng/g
PCB 157 (BZ)		ND		0.0100	0.000440	ng/g
PCB 158 (BZ)		ND		0.0100	0.000335	ng/g
PCB 159 (BZ)		ND		0.0100	0.000359	ng/g
PCB 160 (BZ)	0.01U	**0.000774**	**B C129 J**	**0.0100**	**0.000424**	**ng/g**
PCB 161 (BZ)		ND		0.0100	0.000357	ng/g
PCB 162 (BZ)		ND		0.0100	0.000354	ng/g
PCB 163 (BZ)	0.01U	**0.000774**	**B C129 J**	**0.0100**	**0.000424**	**ng/g**
PCB 164 (BZ)		ND		0.0100	0.000373	ng/g
PCB 165 (BZ)		ND		0.0100	0.000392	ng/g
PCB 166 (BZ)		ND		0.0100	0.000410	ng/g
PCB 167 (BZ)		ND		0.0100	0.000268	ng/g
PCB 168 (BZ)		ND		0.0100	0.000366	ng/g
PCB 169 (BZ)		ND		0.0100	0.000282	ng/g
PCB 170 (BZ)		ND		0.0100	0.000474	ng/g
PCB 171 (BZ)		ND		0.0100	0.000445	ng/g
PCB 172 (BZ)		ND		0.0100	0.000440	ng/g
PCB 173 (BZ)		ND		0.0100	0.000445	ng/g
PCB 174 (BZ)		ND		0.0100	0.000412	ng/g
PCB 175 (BZ)		ND		0.0100	0.000396	ng/g
PCB 176 (BZ)		ND		0.0100	0.000302	ng/g
PCB 177 (BZ)		ND		0.0100	0.000422	ng/g
PCB 178 (BZ)		ND		0.0100	0.000428	ng/g
PCB 179 (BZ)		ND		0.0100	0.000318	ng/g
PCB 180 (BZ)		ND		0.0100	0.000336	ng/g

LS

9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 017	**Work Order #....:**	LT36N1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND	0.0100	0.000396	ng/g
PCB 182 (BZ)	ND	0.0100	0.000385	ng/g
PCB 183 (BZ)	ND	0.0100	0.000393	ng/g
PCB 184 (BZ)	ND	0.0100	0.000327	ng/g
PCB 185 (BZ)	ND	0.0100	0.000393	ng/g
PCB 186 (BZ)	ND	0.0100	0.000317	ng/g
PCB 187 (BZ)	ND	0.0100	0.000368	ng/g
PCB 188 (BZ)	ND	0.0100	0.000278	ng/g
PCB 189 (BZ)	ND	0.0100	0.000287	ng/g
PCB 190 (BZ)	ND	0.0100	0.000307	ng/g
PCB 191 (BZ)	ND	0.0100	0.000301	ng/g
PCB 192 (BZ)	ND	0.0100	0.000337	ng/g
PCB 193 (BZ)	ND	0.0100	0.000336	ng/g
PCB 194 (BZ)	ND	0.0100	0.000329	ng/g
PCB 195 (BZ)	ND	0.0100	0.000357	ng/g
PCB 196 (BZ)	ND	0.0100	0.000389	ng/g
PCB 197 (BZ)	ND	0.0100	0.000289	ng/g
PCB 198 (BZ)	ND	0.0100	0.000401	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND	0.0100	0.000401	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND	0.0100	0.000284	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND	0.0100	0.000274	ng/g
PCB 202 (BZ)	ND	0.0100	0.000309	ng/g
PCB 203 (BZ)	ND	0.0100	0.000359	ng/g
PCB 204 (BZ)	ND	0.0100	0.000301	ng/g
PCB 205 (BZ)	ND	0.0100	0.000277	ng/g
PCB 206 (BZ)	ND	0.0100	0.000350	ng/g
PCB 207 (BZ)	ND	0.0100	0.000255	ng/g
PCB 208 (BZ)	ND	0.0100	0.000270	ng/g
PCB 209 (BZ)	ND	0.0100	0.000323	ng/g

RJ Lee Group Inc.

Sample ID: WA180820090011-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 017	Work Order #....:	LT36N1AA	Matrix....:	SOLID
Date Sampled....:	08/11/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	66		30 - 140
13C12-PCB 3	58		30 - 140
13C12-PCB 4	86		30 - 140
13C12-PCB 15	70		30 - 140
13C12-PCB 19	87		30 - 140
13C12-PCB 37	73		30 - 140
13C12-PCB 54	77		30 - 140
13C12-PCB 77	70		30 - 140
13C12-PCB 81	72		30 - 140
13C12-PCB 104	84		30 - 140
13C12-PCB 105	83		30 - 140
13C12-PCB 114	85		30 - 140
13C12-PCB 118	82		30 - 140
13C12-PCB 123	83		30 - 140
13C12-PCB 126	84		30 - 140
13C12-PCB 155	95		30 - 140
13C12-PCB 156	84	C	30 - 140
13C12-PCB 157	84	C	30 - 140
13C12-PCB 167	82		30 - 140
13C12-PCB 169	81		30 - 140
13C12-PCB 170	92		30 - 140
13C12-PCB 188	98		30 - 140
13C12-PCB 189	86		30 - 140
13C12-PCB 202	112		30 - 140
13C12-PCB 205	96		30 - 140
13C12-PCB 206	103		30 - 140
13C12-PCB 208	98		30 - 140
13C12-PCB 209	102		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	81	40 - 125
13C12-PCB 111	85	40 - 125
13C12-PCB 178	87	40 - 125

RJ Lee Group Inc.

Sample ID: WA180820090011-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 017	**Work Order #....:**	LT36N1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA180820090011-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 018	**Work Order #....:**	LT36P1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.0000767	ng/g
PCB 2 (BZ)		ND		0.0100	0.0000968	ng/g
PCB 3 (BZ)		ND		0.0100	0.000128	ng/g
PCB 4 (BZ)		ND		0.0200	0.00216	ng/g
PCB 5 (BZ)		ND		0.0100	0.00200	ng/g
PCB 6 (BZ)		ND		0.0100	0.00188	ng/g
PCB 7 (BZ)		ND		0.0100	0.00193	ng/g
PCB 8 (BZ)		**0.000987**	**Q B J**	**0.0200**	**0.00184**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00194	ng/g
PCB 10 (BZ)		ND		0.0100	0.00209	ng/g
PCB 11 (BZ)	0.02U	**0.00241**	**Q B J**	**0.0200**	**0.00185**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00190	ng/g
PCB 13 (BZ)		ND		0.0100	0.00190	ng/g
PCB 14 (BZ)		ND		0.0100	0.00163	ng/g
PCB 15 (BZ)		**0.000623**	**Q J**	**0.0100**	**0.00228**	**ng/g**
PCB 16 (BZ)		ND		0.0100	0.000559	ng/g
PCB 17 (BZ)		ND		0.0100	0.000466	ng/g
PCB 18 (BZ)		ND		0.0200	0.000413	ng/g
PCB 19 (BZ)		ND		0.0100	0.000571	ng/g
PCB 20 (BZ)	0.02U	**0.00130**	**B C J**	**0.0200**	**0.000355**	**ng/g**
PCB 21 (BZ)		ND		0.0100	0.000356	ng/g
PCB 22 (BZ)		ND		0.0100	0.000362	ng/g
PCB 23 (BZ)		ND		0.0100	0.000369	ng/g
PCB 24 (BZ)		ND		0.0100	0.000390	ng/g
PCB 25 (BZ)		ND		0.0100	0.000329	ng/g
PCB 26 (BZ)		ND		0.0100	0.000349	ng/g
PCB 27 (BZ)		ND		0.0100	0.000337	ng/g
PCB 28 (BZ)	0.02U	**0.00130**	**B C20 J**	**0.0200**	**0.000355**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000349	ng/g
PCB 30 (BZ)		ND		0.0200	0.000413	ng/g
PCB 31 (BZ)	0.02U	**0.000951**	**B J**	**0.0200**	**0.000347**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000330	ng/g
PCB 33 (BZ)		ND		0.0100	0.000356	ng/g
PCB 34 (BZ)		ND		0.0100	0.000363	ng/g
PCB 35 (BZ)		ND		0.0100	0.000373	ng/g
PCB 36 (BZ)		ND		0.0100	0.000361	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 018	Work Order #....:	LT36P1AA	Matrix....:	SOLID
Date Sampled....:	08/11/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000370	ng/g
PCB 38 (BZ)		ND		0.0100	0.000380	ng/g
PCB 39 (BZ)		ND		0.0100	0.000338	ng/g
PCB 40 (BZ)		ND		0.0100	0.000421	ng/g
PCB 41 (BZ)		ND		0.0100	0.000421	ng/g
PCB 42 (BZ)		ND		0.0100	0.000428	ng/g
PCB 43 (BZ)		ND		0.0100	0.000393	ng/g
PCB 44 (BZ)	0.01U	**0.00184**	**B C J**	**0.0100**	**0.000376**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000436	ng/g
PCB 46 (BZ)		ND		0.0100	0.000516	ng/g
PCB 47 (BZ)	0.01U	**0.00184**	**B C44 J**	**0.0100**	**0.000376**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000417	ng/g
PCB 49 (BZ)		ND		0.0100	0.000347	ng/g
PCB 50 (BZ)		ND		0.0100	0.000405	ng/g
PCB 51 (BZ)		ND		0.0100	0.000436	ng/g
PCB 52 (BZ)		**0.000703**	**Q J**	**0.0100**	**0.000406**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000405	ng/g
PCB 54 (BZ)		ND		0.0100	0.000404	ng/g
PCB 55 (BZ)		ND		0.0100	0.000326	ng/g
PCB 56 (BZ)		ND		0.0100	0.000307	ng/g
PCB 57 (BZ)		ND		0.0100	0.000310	ng/g
PCB 58 (BZ)		ND		0.0100	0.000309	ng/g
PCB 59 (BZ)		ND		0.0100	0.000300	ng/g
PCB 60 (BZ)		ND		0.0100	0.000316	ng/g
PCB 61 (BZ)		**0.000945**	**C J**	**0.0200**	**0.000299**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000300	ng/g
PCB 63 (BZ)		ND		0.0100	0.000288	ng/g
PCB 64 (BZ)		ND		0.0100	0.000284	ng/g
PCB 65 (BZ)	0.01U	**0.00184**	**B C44 J**	**0.0100**	**0.000376**	**ng/g**
PCB 66 (BZ)		**0.000386**	**Q J**	**0.0100**	**0.000297**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000279	ng/g
PCB 68 (BZ)		ND		0.0100	0.000281	ng/g
PCB 69 (BZ)		ND		0.0100	0.000347	ng/g
PCB 70 (BZ)		**0.000945**	**C61 J**	**0.0200**	**0.000299**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000421	ng/g
PCB 72 (BZ)		ND		0.0100	0.000302	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 018	**Work Order #....:**	LT36P1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND		0.0100	0.000393	ng/g
PCB 74 (BZ)	**0.000945**	**C61 J**	**0.0200**	**0.000299**	**ng/g**
PCB 75 (BZ)	ND		0.0100	0.000300	ng/g
PCB 76 (BZ)	**0.000945**	**C61 J**	**0.0200**	**0.000299**	**ng/g**
PCB 77 (BZ)	ND		0.0100	0.000300	ng/g
PCB 78 (BZ)	ND		0.0100	0.000321	ng/g
PCB 79 (BZ)	ND		0.0100	0.000281	ng/g
PCB 80 (BZ)	ND		0.0100	0.000275	ng/g
PCB 81 (BZ)	ND		0.0100	0.000282	ng/g
PCB 82 (BZ)	ND		0.0100	0.000353	ng/g
PCB 83 (BZ)	ND		0.0100	0.000296	ng/g
PCB 84 (BZ)	ND		0.0100	0.000337	ng/g
PCB 85 (BZ)	ND		0.0100	0.000244	ng/g
PCB 86 (BZ)	ND		0.0100	0.000250	ng/g
PCB 87 (BZ)	ND		0.0100	0.000250	ng/g
PCB 88 (BZ)	ND		0.0100	0.000300	ng/g
PCB 89 (BZ)	ND		0.0100	0.000326	ng/g
PCB 90 (BZ)	**0.000841**	**C J**	**0.0100**	**0.000254**	**ng/g**
PCB 91 (BZ)	ND		0.0100	0.000300	ng/g
PCB 92 (BZ)	ND		0.0100	0.000289	ng/g
PCB 93 (BZ)	ND		0.0100	0.000290	ng/g
PCB 94 (BZ)	ND		0.0100	0.000326	ng/g
PCB 95 (BZ)	ND		0.0100	0.000307	ng/g
PCB 96 (BZ)	ND		0.0100	0.000244	ng/g
PCB 97 (BZ)	ND		0.0100	0.000250	ng/g
PCB 98 (BZ)	ND		0.0100	0.000281	ng/g
PCB 99 (BZ)	ND		0.0100	0.000296	ng/g
PCB 100 (BZ)	ND		0.0100	0.000290	ng/g
PCB 101 (BZ)	**0.000841**	**C90 J**	**0.0100**	**0.000254**	**ng/g**
PCB 102 (BZ)	ND		0.0100	0.000281	ng/g
PCB 103 (BZ)	ND		0.0100	0.000286	ng/g
PCB 104 (BZ)	ND		0.0100	0.000217	ng/g
PCB 105 (BZ)	ND		0.0100	0.000222	ng/g
PCB 106 (BZ)	ND		0.0100	0.000230	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND		0.0100	0.000223	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND		0.0100	0.000235	ng/g

RJ Lee Group Inc.

Sample ID: WA180820090011-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 018	**Work Order #....:**	LT36P1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)		ND		0.0100	0.000250	ng/g
PCB 110 (BZ)		**0.000642**	**Q C J**	**0.0100**	**0.000216**	**ng/g**
PCB 111 (BZ)		ND		0.0100	0.000204	ng/g
PCB 112 (BZ)		ND		0.0100	0.000222	ng/g
PCB 113 (BZ)		**0.000841**	**C90 J**	**0.0100**	**0.000254**	**ng/g**
PCB 114 (BZ)		ND		0.0100	0.000203	ng/g
PCB 115 (BZ)		**0.000642**	**Q C110 J**	**0.0100**	**0.000216**	**ng/g**
PCB 116 (BZ)		ND		0.0100	0.000244	ng/g
PCB 117 (BZ)		ND		0.0100	0.000244	ng/g
PCB 118 (BZ)		ND		0.0100	0.000218	ng/g
PCB 119 (BZ)		ND		0.0100	0.000250	ng/g
PCB 120 (BZ)		ND		0.0100	0.000210	ng/g
PCB 121 (BZ)		ND		0.0100	0.000212	ng/g
PCB 122 (BZ)		ND		0.0100	0.000251	ng/g
PCB 123 (BZ)		ND		0.0100	0.000230	ng/g
PCB 124 (BZ)		ND		0.0100	0.000235	ng/g
PCB 125 (BZ)		ND		0.0100	0.000250	ng/g
PCB 126 (BZ)		ND		0.0100	0.000232	ng/g
PCB 127 (BZ)		ND		0.0100	0.000228	ng/g
PCB 128 (BZ)		ND		0.0100	0.000365	ng/g
PCB 129 (BZ)	0.01U	**0.000993**	**Q B C J**	**0.0100**	**0.000377**	**ng/g**
PCB 130 (BZ)		ND		0.0100	0.000487	ng/g
PCB 131 (BZ)		ND		0.0100	0.000499	ng/g
PCB 132 (BZ)		ND		0.0100	0.000475	ng/g
PCB 133 (BZ)		ND		0.0100	0.000457	ng/g
PCB 134 (BZ)		ND		0.0100	0.000487	ng/g
PCB 135 (BZ)		ND		0.0100	0.000414	ng/g
PCB 136 (BZ)		ND		0.0100	0.000304	ng/g
PCB 137 (BZ)		ND		0.0100	0.000420	ng/g
PCB 138 (BZ)	0.01U	**0.000993**	**Q B C129 J**	**0.0100**	**0.000377**	**ng/g**
PCB 139 (BZ)		ND		0.0100	0.000418	ng/g
PCB 140 (BZ)		ND		0.0100	0.000418	ng/g
PCB 141 (BZ)		ND		0.0100	0.000435	ng/g
PCB 142 (BZ)		ND		0.0100	0.000480	ng/g
PCB 143 (BZ)		ND		0.0100	0.000487	ng/g
PCB 144 (BZ)		ND		0.0100	0.000384	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 018	**Work Order #....:**	LT36P1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)		ND		0.0100	0.000290	ng/g
PCB 146 (BZ)		ND		0.0100	0.000397	ng/g
PCB 147 (BZ)		ND		0.0100	0.000405	ng/g
PCB 148 (BZ)		ND		0.0100	0.000406	ng/g
PCB 149 (BZ)		ND		0.0100	0.000405	ng/g
PCB 150 (BZ)		ND		0.0100	0.000283	ng/g
PCB 151 (BZ)		ND		0.0100	0.000414	ng/g
PCB 152 (BZ)		ND		0.0100	0.000289	ng/g
PCB 153 (BZ)		ND		0.0100	0.000326	ng/g
PCB 154 (BZ)		ND		0.0100	0.000336	ng/g
PCB 155 (BZ)		ND		0.0100	0.000275	ng/g
PCB 156 (BZ)		ND		0.0100	0.000390	ng/g
PCB 157 (BZ)		ND		0.0100	0.000390	ng/g
PCB 158 (BZ)		ND		0.0100	0.000298	ng/g
PCB 159 (BZ)		ND		0.0100	0.000319	ng/g
PCB 160 (BZ)	0.01U	**0.000993**	**Q B C129 J**	**0.0100**	**0.000377**	**ng/g**
PCB 161 (BZ)		ND		0.0100	0.000317	ng/g
PCB 162 (BZ)		ND		0.0100	0.000315	ng/g
PCB 163 (BZ)	0.01U	**0.000993**	**Q B C129 J**	**0.0100**	**0.000377**	**ng/g**
PCB 164 (BZ)		ND		0.0100	0.000332	ng/g
PCB 165 (BZ)		ND		0.0100	0.000349	ng/g
PCB 166 (BZ)		ND		0.0100	0.000365	ng/g
PCB 167 (BZ)		ND		0.0100	0.000242	ng/g
PCB 168 (BZ)		ND		0.0100	0.000326	ng/g
PCB 169 (BZ)		ND		0.0100	0.000248	ng/g
PCB 170 (BZ)		ND		0.0100	0.000439	ng/g
PCB 171 (BZ)		ND		0.0100	0.000413	ng/g
PCB 172 (BZ)		ND		0.0100	0.000409	ng/g
PCB 173 (BZ)		ND		0.0100	0.000413	ng/g
PCB 174 (BZ)		ND		0.0100	0.000383	ng/g
PCB 175 (BZ)		ND		0.0100	0.000368	ng/g
PCB 176 (BZ)		ND		0.0100	0.000280	ng/g
PCB 177 (BZ)		ND		0.0100	0.000393	ng/g
PCB 178 (BZ)		ND		0.0100	0.000398	ng/g
PCB 179 (BZ)		ND		0.0100	0.000296	ng/g
PCB 180 (BZ)	0.01U	**0.000557**	**Q B C J**	**0.0100**	**0.000312**	**ng/g**

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 018	**Work Order #....:**	LT36P1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)		ND		0.0100	0.000368	ng/g
PCB 182 (BZ)		ND		0.0100	0.000357	ng/g
PCB 183 (BZ)		ND		0.0100	0.000365	ng/g
PCB 184 (BZ)		ND		0.0100	0.000303	ng/g
PCB 185 (BZ)		ND		0.0100	0.000365	ng/g
PCB 186 (BZ)		ND		0.0100	0.000295	ng/g
PCB 187 (BZ)		ND		0.0100	0.000342	ng/g
PCB 188 (BZ)		ND		0.0100	0.000259	ng/g
PCB 189 (BZ)		ND		0.0100	0.000266	ng/g
PCB 190 (BZ)		ND		0.0100	0.000285	ng/g
PCB 191 (BZ)		ND		0.0100	0.000280	ng/g
PCB 192 (BZ)		ND		0.0100	0.000313	ng/g
PCB 193 (BZ)	0.01U	**0.000557**	**Q B C180 J**	**0.0100**	**0.000312**	**ng/g**
PCB 194 (BZ)		ND		0.0100	0.000268	ng/g
PCB 195 (BZ)		ND		0.0100	0.000291	ng/g
PCB 196 (BZ)		ND		0.0100	0.000324	ng/g
PCB 197 (BZ)		ND		0.0100	0.000241	ng/g
PCB 198 (BZ)		ND		0.0100	0.000335	ng/g
PCB 201 (BZ)/199 (IUPAC)		ND		0.0100	0.000335	ng/g
PCB 199 (BZ)/200 (IUPAC)		ND		0.0100	0.000237	ng/g
PCB 200 (BZ)/201 (IUPAC)		ND		0.0100	0.000229	ng/g
PCB 202 (BZ)		ND		0.0100	0.000258	ng/g
PCB 203 (BZ)		ND		0.0100	0.000299	ng/g
PCB 204 (BZ)		ND		0.0100	0.000251	ng/g
PCB 205 (BZ)		ND		0.0100	0.000225	ng/g
PCB 206 (BZ)		ND		0.0100	0.000260	ng/g
PCB 207 (BZ)		ND		0.0100	0.000191	ng/g
PCB 208 (BZ)		ND		0.0100	0.000203	ng/g
PCB 209 (BZ)		ND		0.0100	0.000286	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 018	**Work Order #....:**	LT36P1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	66		30 - 140
13C12-PCB 3	58		30 - 140
13C12-PCB 4	86		30 - 140
13C12-PCB 15	71		30 - 140
13C12-PCB 19	87		30 - 140
13C12-PCB 37	74		30 - 140
13C12-PCB 54	78		30 - 140
13C12-PCB 77	71		30 - 140
13C12-PCB 81	73		30 - 140
13C12-PCB 104	84		30 - 140
13C12-PCB 105	84		30 - 140
13C12-PCB 114	87		30 - 140
13C12-PCB 118	82		30 - 140
13C12-PCB 123	83		30 - 140
13C12-PCB 126	84		30 - 140
13C12-PCB 155	95		30 - 140
13C12-PCB 156	84	C	30 - 140
13C12-PCB 157	84	C	30 - 140
13C12-PCB 167	80		30 - 140
13C12-PCB 169	81		30 - 140
13C12-PCB 170	90		30 - 140
13C12-PCB 188	97		30 - 140
13C12-PCB 189	85		30 - 140
13C12-PCB 202	111		30 - 140
13C12-PCB 205	95		30 - 140
13C12-PCB 206	101		30 - 140
13C12-PCB 208	96		30 - 140
13C12-PCB 209	100		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	81	40 - 125
13C12-PCB 111	87	40 - 125
13C12-PCB 178	87	40 - 125

RJ Lee Group Inc.

Sample ID: WA180820090011-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 018	**Work Order #....:**	LT36P1AA	**Matrix....:**	SOLID
Date Sampled....:	08/11/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA180820090011-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 019	Work Order #....:	LT36Q1AA	Matrix....:	SOLID
Date Sampled....:	08/10/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.0000985	ng/g
PCB 2 (BZ)		ND		0.0100	0.000119	ng/g
PCB 3 (BZ)		ND		0.0100	0.000147	ng/g
PCB 4 (BZ)		ND		0.0200	0.00213	ng/g
PCB 5 (BZ)		ND		0.0100	0.00190	ng/g
PCB 6 (BZ)		ND		0.0100	0.00179	ng/g
PCB 7 (BZ)		ND		0.0100	0.00184	ng/g
PCB 8 (BZ)		**0.00115**	**Q B J**	**0.0200**	**0.00175**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00185	ng/g
PCB 10 (BZ)		ND		0.0100	0.00198	ng/g
PCB 11 (BZ)	0.02U	**0.00215**	**Q B J**	**0.0200**	**0.00176**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00180	ng/g
PCB 13 (BZ)		ND		0.0100	0.00180	ng/g
PCB 14 (BZ)		ND		0.0100	0.00155	ng/g
PCB 15 (BZ)		ND		0.0100	0.00210	ng/g
PCB 16 (BZ)		ND		0.0100	0.000558	ng/g
PCB 17 (BZ)		ND		0.0100	0.000466	ng/g
PCB 18 (BZ)		**0.000770**	**Q C J**	**0.0200**	**0.000412**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000571	ng/g
PCB 20 (BZ)	0.02U	**0.00198**	**B C J**	**0.0200**	**0.000358**	**ng/g**
PCB 21 (BZ)	0.01U	**0.00119**	**B C J**	**0.0100**	**0.000359**	**ng/g**
PCB 22 (BZ)		ND		0.0100	0.000365	ng/g
PCB 23 (BZ)		ND		0.0100	0.000372	ng/g
PCB 24 (BZ)		ND		0.0100	0.000390	ng/g
PCB 25 (BZ)		ND		0.0100	0.000332	ng/g
PCB 26 (BZ)		ND		0.0100	0.000352	ng/g
PCB 27 (BZ)		ND		0.0100	0.000337	ng/g
PCB 28 (BZ)	0.02U	**0.00198**	**B C20 J**	**0.0200**	**0.000358**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000352	ng/g
PCB 30 (BZ)		**0.000770**	**Q C18 J**	**0.0200**	**0.000412**	**ng/g**
PCB 31 (BZ)	0.02U	**0.00111**	**Q B J**	**0.0200**	**0.000350**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000330	ng/g
PCB 33 (BZ)	0.01U	**0.00119**	**B C21 J**	**0.0100**	**0.000359**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000366	ng/g
PCB 35 (BZ)		ND		0.0100	0.000376	ng/g
PCB 36 (BZ)		ND		0.0100	0.000364	ng/g

LS

9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 019	Work Order #....:	LT36Q1AA	Matrix....:	SOLID
Date Sampled....:	08/10/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000373	ng/g
PCB 38 (BZ)		ND		0.0100	0.000384	ng/g
PCB 39 (BZ)		ND		0.0100	0.000341	ng/g
PCB 40 (BZ)		ND		0.0100	0.000477	ng/g
PCB 41 (BZ)		ND		0.0100	0.000477	ng/g
PCB 42 (BZ)		ND		0.0100	0.000485	ng/g
PCB 43 (BZ)		ND		0.0100	0.000445	ng/g
PCB 44 (BZ)	0.01U	**0.00208**	**B C J**	**0.0100**	**0.000426**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000494	ng/g
PCB 46 (BZ)		ND		0.0100	0.000584	ng/g
PCB 47 (BZ)	0.01U	**0.00208**	**B C44 J**	**0.0100**	**0.000426**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000473	ng/g
PCB 49 (BZ)		**0.000505**	**Q C J**	**0.0100**	**0.000393**	**ng/g**
PCB 50 (BZ)		ND		0.0100	0.000459	ng/g
PCB 51 (BZ)		ND		0.0100	0.000494	ng/g
PCB 52 (BZ)		**0.00146**	**Q J**	**0.0100**	**0.000459**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000459	ng/g
PCB 54 (BZ)		ND		0.0100	0.000464	ng/g
PCB 55 (BZ)		ND		0.0100	0.000369	ng/g
PCB 56 (BZ)		**0.00155**	**Q J**	**0.0100**	**0.000347**	**ng/g**
PCB 57 (BZ)		ND		0.0100	0.000351	ng/g
PCB 58 (BZ)		ND		0.0100	0.000350	ng/g
PCB 59 (BZ)		ND		0.0100	0.000339	ng/g
PCB 60 (BZ)		ND		0.0100	0.000358	ng/g
PCB 61 (BZ)		**0.00122**	**Q C J**	**0.0200**	**0.000339**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000339	ng/g
PCB 63 (BZ)		ND		0.0100	0.000326	ng/g
PCB 64 (BZ)		**0.000556**	**Q J**	**0.0100**	**0.000321**	**ng/g**
PCB 65 (BZ)	0.01U	**0.00208**	**B C44 J**	**0.0100**	**0.000426**	**ng/g**
PCB 66 (BZ)		**0.000694**	**Q J**	**0.0100**	**0.000337**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000316	ng/g
PCB 68 (BZ)		ND		0.0100	0.000319	ng/g
PCB 69 (BZ)		**0.000505**	**Q C49 J**	**0.0100**	**0.000393**	**ng/g**
PCB 70 (BZ)		**0.00122**	**Q C61 J**	**0.0200**	**0.000339**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000477	ng/g
PCB 72 (BZ)		ND		0.0100	0.000342	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 019	**Work Order #....:**	LT36Q1AA	**Matrix....:**	SOLID
Date Sampled....:	08/10/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND		0.0100	0.000445	ng/g
PCB 74 (BZ)	**0.00122**	**Q C61 J**	**0.0200**	**0.000339**	**ng/g**
PCB 75 (BZ)	ND		0.0100	0.000339	ng/g
PCB 76 (BZ)	**0.00122**	**Q C61 J**	**0.0200**	**0.000339**	**ng/g**
PCB 77 (BZ)	**0.000695**	**Q J**	**0.0100**	**0.000337**	**ng/g**
PCB 78 (BZ)	ND		0.0100	0.000363	ng/g
PCB 79 (BZ)	ND		0.0100	0.000319	ng/g
PCB 80 (BZ)	ND		0.0100	0.000311	ng/g
PCB 81 (BZ)	ND		0.0100	0.000321	ng/g
PCB 82 (BZ)	ND		0.0100	0.000459	ng/g
PCB 83 (BZ)	**0.00101**	**Q C J**	**0.0100**	**0.000386**	**ng/g**
PCB 84 (BZ)	ND		0.0100	0.000439	ng/g
PCB 85 (BZ)	ND		0.0100	0.000318	ng/g
PCB 86 (BZ)	**0.00130**	**Q C J**	**0.0100**	**0.000325**	**ng/g**
PCB 87 (BZ)	**0.00130**	**Q C86 J**	**0.0100**	**0.000325**	**ng/g**
PCB 88 (BZ)	ND		0.0100	0.000391	ng/g
PCB 89 (BZ)	ND		0.0100	0.000425	ng/g
PCB 90 (BZ)	**0.00202**	**C J**	**0.0100**	**0.000331**	**ng/g**
PCB 91 (BZ)	ND		0.0100	0.000391	ng/g
PCB 92 (BZ)	ND		0.0100	0.000376	ng/g
PCB 93 (BZ)	ND		0.0100	0.000377	ng/g
PCB 94 (BZ)	ND		0.0100	0.000425	ng/g
PCB 95 (BZ)	**0.00130**	**Q J**	**0.0100**	**0.000400**	**ng/g**
PCB 96 (BZ)	ND		0.0100	0.000318	ng/g
PCB 97 (BZ)	**0.00130**	**Q C86 J**	**0.0100**	**0.000325**	**ng/g**
PCB 98 (BZ)	ND		0.0100	0.000366	ng/g
PCB 99 (BZ)	**0.00101**	**Q C83 J**	**0.0100**	**0.000386**	**ng/g**
PCB 100 (BZ)	ND		0.0100	0.000377	ng/g
PCB 101 (BZ)	**0.00202**	**C90 J**	**0.0100**	**0.000331**	**ng/g**
PCB 102 (BZ)	ND		0.0100	0.000366	ng/g
PCB 103 (BZ)	ND		0.0100	0.000372	ng/g
PCB 104 (BZ)	ND		0.0100	0.000283	ng/g
PCB 105 (BZ)	**0.000862**	**Q J**	**0.0100**	**0.000282**	**ng/g**
PCB 106 (BZ)	ND		0.0100	0.000294	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND		0.0100	0.000285	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND		0.0100	0.000300	ng/g

RJ Lee Group Inc.

Sample ID: WA180820090011-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 019	**Work Order #....:**	LT36Q1AA	**Matrix....:**	SOLID
Date Sampled....:	08/10/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC		**0.00130**	**Q C86 J**	**0.0100**	**0.000325**	**ng/g**
PCB 110 (BZ)		**0.00406**	**C J**	**0.0100**	**0.000281**	**ng/g**
PCB 111 (BZ)		ND		0.0100	0.000266	ng/g
PCB 112 (BZ)		ND		0.0100	0.000289	ng/g
PCB 113 (BZ)		**0.00202**	**C90 J**	**0.0100**	**0.000331**	**ng/g**
PCB 114 (BZ)		ND		0.0100	0.000259	ng/g
PCB 115 (BZ)		**0.00406**	**C110 J**	**0.0100**	**0.000281**	**ng/g**
PCB 116 (BZ)		ND		0.0100	0.000318	ng/g
PCB 117 (BZ)		ND		0.0100	0.000318	ng/g
PCB 118 (BZ)		**0.00273**	**J**	**0.0100**	**0.000283**	**ng/g**
PCB 119 (BZ)		**0.00130**	**Q C86 J**	**0.0100**	**0.000325**	**ng/g**
PCB 120 (BZ)		ND		0.0100	0.000274	ng/g
PCB 121 (BZ)		ND		0.0100	0.000276	ng/g
PCB 122 (BZ)		ND		0.0100	0.000320	ng/g
PCB 123 (BZ)		ND		0.0100	0.000298	ng/g
PCB 124 (BZ)		ND		0.0100	0.000300	ng/g
PCB 125 (BZ)		**0.00130**	**Q C86 J**	**0.0100**	**0.000325**	**ng/g**
PCB 126 (BZ)		ND		0.0100	0.000288	ng/g
PCB 127 (BZ)		ND		0.0100	0.000290	ng/g
PCB 128 (BZ)		**0.000666**	**Q C J**	**0.0100**	**0.000448**	**ng/g**
PCB 129 (BZ)	0.01U	**0.00589**	**B C J**	**0.0100**	**0.000463**	**ng/g**
PCB 130 (BZ)		ND		0.0100	0.000598	ng/g
PCB 131 (BZ)		ND		0.0100	0.000613	ng/g
PCB 132 (BZ)		**0.00170**	**J**	**0.0100**	**0.000583**	**ng/g**
PCB 133 (BZ)		ND		0.0100	0.000562	ng/g
PCB 134 (BZ)		ND		0.0100	0.000599	ng/g
PCB 135 (BZ)		ND		0.0100	0.000528	ng/g
PCB 136 (BZ)		ND		0.0100	0.000387	ng/g
PCB 137 (BZ)		ND		0.0100	0.000516	ng/g
PCB 138 (BZ)	0.01U	**0.00589**	**B C129 J**	**0.0100**	**0.000463**	**ng/g**
PCB 139 (BZ)		ND		0.0100	0.000513	ng/g
PCB 140 (BZ)		ND		0.0100	0.000513	ng/g
PCB 141 (BZ)		ND		0.0100	0.000534	ng/g
PCB 142 (BZ)		ND		0.0100	0.000589	ng/g
PCB 143 (BZ)		ND		0.0100	0.000599	ng/g
PCB 144 (BZ)		ND		0.0100	0.000490	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 019	Work Order #....:	LT36Q1AA	Matrix....:	SOLID
Date Sampled....:	08/10/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)		ND		0.0100	0.000371	ng/g
PCB 146 (BZ)		**0.000684**	**J**	**0.0100**	**0.000487**	**ng/g**
PCB 147 (BZ)		**0.00271**	**Q C J**	**0.0100**	**0.000498**	**ng/g**
PCB 148 (BZ)		ND		0.0100	0.000518	ng/g
PCB 149 (BZ)		**0.00271**	**Q C147 J**	**0.0100**	**0.000498**	**ng/g**
PCB 150 (BZ)		ND		0.0100	0.000361	ng/g
PCB 151 (BZ)		ND		0.0100	0.000528	ng/g
PCB 152 (BZ)		ND		0.0100	0.000368	ng/g
PCB 153 (BZ)	0.01U	**0.00375**	**B C J**	**0.0100**	**0.000400**	**ng/g**
PCB 154 (BZ)		ND		0.0100	0.000429	ng/g
PCB 155 (BZ)		ND		0.0100	0.000351	ng/g
PCB 156 (BZ)		ND		0.0100	0.000490	ng/g
PCB 157 (BZ)		ND		0.0100	0.000490	ng/g
PCB 158 (BZ)		**0.000522**	**J**	**0.0100**	**0.000365**	**ng/g**
PCB 159 (BZ)		ND		0.0100	0.000392	ng/g
PCB 160 (BZ)	0.01U	**0.00589**	**B C129 J**	**0.0100**	**0.000463**	**ng/g**
PCB 161 (BZ)		ND		0.0100	0.000390	ng/g
PCB 162 (BZ)		ND		0.0100	0.000387	ng/g
PCB 163 (BZ)	0.01U	**0.00589**	**B C129 J**	**0.0100**	**0.000463**	**ng/g**
PCB 164 (BZ)		ND		0.0100	0.000408	ng/g
PCB 165 (BZ)		ND		0.0100	0.000429	ng/g
PCB 166 (BZ)		**0.000666**	**Q C128 J**	**0.0100**	**0.000448**	**ng/g**
PCB 167 (BZ)		ND		0.0100	0.000297	ng/g
PCB 168 (BZ)	0.01U	**0.00375**	**B C153 J**	**0.0100**	**0.000400**	**ng/g**
PCB 169 (BZ)		ND		0.0100	0.000296	ng/g
PCB 170 (BZ)	0.01U	**0.00141**	**B J**	**0.0100**	**0.000542**	**ng/g**
PCB 171 (BZ)		ND		0.0100	0.000530	ng/g
PCB 172 (BZ)		ND		0.0100	0.000525	ng/g
PCB 173 (BZ)		ND		0.0100	0.000530	ng/g
PCB 174 (BZ)	0.01U	**0.000829**	**Q B J**	**0.0100**	**0.000491**	**ng/g**
PCB 175 (BZ)		ND		0.0100	0.000472	ng/g
PCB 176 (BZ)		ND		0.0100	0.000360	ng/g
PCB 177 (BZ)		ND		0.0100	0.000503	ng/g
PCB 178 (BZ)		ND		0.0100	0.000510	ng/g
PCB 179 (BZ)		ND		0.0100	0.000379	ng/g
PCB 180 (BZ)	0.01U	**0.00324**	**Q B C J**	**0.0100**	**0.000401**	**ng/g**

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 019	**Work Order #....:**	LT36Q1AA	**Matrix....:**	SOLID
Date Sampled....:	08/10/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)		ND		0.0100	0.000472	ng/g
PCB 182 (BZ)		ND		0.0100	0.000458	ng/g
PCB 183 (BZ)		ND		0.0100	0.000468	ng/g
PCB 184 (BZ)		ND		0.0100	0.000389	ng/g
PCB 185 (BZ)		ND		0.0100	0.000468	ng/g
PCB 186 (BZ)		ND		0.0100	0.000378	ng/g
PCB 187 (BZ)		**0.00149**	**Q J**	**0.0100**	**0.000438**	**ng/g**
PCB 188 (BZ)		ND		0.0100	0.000339	ng/g
PCB 189 (BZ)		ND		0.0100	0.000335	ng/g
PCB 190 (BZ)		ND		0.0100	0.000365	ng/g
PCB 191 (BZ)		ND		0.0100	0.000359	ng/g
PCB 192 (BZ)		ND		0.0100	0.000401	ng/g
PCB 193 (BZ)	0.01U	**0.00324**	**Q B C180 J**	**0.0100**	**0.000401**	**ng/g**
PCB 194 (BZ)	0.01U	**0.00221**	**Q B J**	**0.0100**	**0.000343**	**ng/g**
PCB 195 (BZ)		ND		0.0100	0.000372	ng/g
PCB 196 (BZ)		**0.000968**	**Q J**	**0.0100**	**0.000430**	**ng/g**
PCB 197 (BZ)		ND		0.0100	0.000320	ng/g
PCB 198 (BZ)		**0.00538**	**C J**	**0.0100**	**0.000444**	**ng/g**
PCB 201 (BZ)/199 (IUPAC		**0.00538**	**C198 J**	**0.0100**	**0.000444**	**ng/g**
PCB 199 (BZ)/200 (IUPAC)		ND		0.0100	0.000314	ng/g
PCB 200 (BZ)/201 (IUPAC)		ND		0.0100	0.000304	ng/g
PCB 202 (BZ)		ND		0.0100	0.000342	ng/g
PCB 203 (BZ)		**0.00388**	**Q J**	**0.0100**	**0.000397**	**ng/g**
PCB 204 (BZ)		ND		0.0100	0.000333	ng/g
PCB 205 (BZ)		ND		0.0100	0.000288	ng/g
PCB 206 (BZ)		**0.0145**	**B**	**0.0100**	**0.000340**	**ng/g**
PCB 207 (BZ)		**0.000783**	**J**	**0.0100**	**0.000251**	**ng/g**
PCB 208 (BZ)		**0.00339**	**Q J**	**0.0100**	**0.000269**	**ng/g**
PCB 209 (BZ)		**0.00181**	**J**	**0.0100**	**0.000262**	**ng/g**

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 019	**Work Order #....:**	LT36Q1AA	**Matrix....:**	SOLID
Date Sampled....:	08/10/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	66		30 - 140
13C12-PCB 3	58		30 - 140
13C12-PCB 4	86		30 - 140
13C12-PCB 15	72		30 - 140
13C12-PCB 19	91		30 - 140
13C12-PCB 37	75		30 - 140
13C12-PCB 54	80		30 - 140
13C12-PCB 77	75		30 - 140
13C12-PCB 81	77		30 - 140
13C12-PCB 104	83		30 - 140
13C12-PCB 105	83		30 - 140
13C12-PCB 114	86		30 - 140
13C12-PCB 118	81		30 - 140
13C12-PCB 123	83		30 - 140
13C12-PCB 126	85		30 - 140
13C12-PCB 155	95		30 - 140
13C12-PCB 156	85	C	30 - 140
13C12-PCB 157	85	C	30 - 140
13C12-PCB 167	82		30 - 140
13C12-PCB 169	84		30 - 140
13C12-PCB 170	92		30 - 140
13C12-PCB 188	96		30 - 140
13C12-PCB 189	85		30 - 140
13C12-PCB 202	111		30 - 140
13C12-PCB 205	95		30 - 140
13C12-PCB 206	101		30 - 140
13C12-PCB 208	94		30 - 140
13C12-PCB 209	98		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	81	40 - 125
13C12-PCB 111	87	40 - 125
13C12-PCB 178	84	40 - 125

RJ Lee Group Inc.

Sample ID: WA180820090011-004

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 019	**Work Order #....:**	LT36Q1AA	**Matrix....:**	SOLID
Date Sampled....:	08/10/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA180820090011-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 020	**Work Order #....:**	LT36T1AA	**Matrix....:**	SOLID
Date Sampled....:	08/10/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.0000919	ng/g
PCB 2 (BZ)		ND		0.0100	0.000112	ng/g
PCB 3 (BZ)		ND		0.0100	0.000141	ng/g
PCB 4 (BZ)		ND		0.0200	0.00198	ng/g
PCB 5 (BZ)		ND		0.0100	0.00176	ng/g
PCB 6 (BZ)		ND		0.0100	0.00165	ng/g
PCB 7 (BZ)		ND		0.0100	0.00170	ng/g
PCB 8 (BZ)		**0.00163**	**Q B J**	**0.0200**	**0.00162**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00170	ng/g
PCB 10 (BZ)		ND		0.0100	0.00183	ng/g
PCB 11 (BZ)	0.02U	**0.00286**	**Q B J**	**0.0200**	**0.00162**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00166	ng/g
PCB 13 (BZ)		ND		0.0100	0.00166	ng/g
PCB 14 (BZ)		ND		0.0100	0.00144	ng/g
PCB 15 (BZ)		ND		0.0100	0.00192	ng/g
PCB 16 (BZ)		ND		0.0100	0.000608	ng/g
PCB 17 (BZ)		ND		0.0100	0.000507	ng/g
PCB 18 (BZ)		**0.00116**	**Q C J**	**0.0200**	**0.000449**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000622	ng/g
PCB 20 (BZ)	0.02U	**0.00119**	**Q B C J**	**0.0200**	**0.000355**	**ng/g**
PCB 21 (BZ)	0.01U	**0.000954**	**Q B C J**	**0.0100**	**0.000356**	**ng/g**
PCB 22 (BZ)		ND		0.0100	0.000362	ng/g
PCB 23 (BZ)		ND		0.0100	0.000369	ng/g
PCB 24 (BZ)		ND		0.0100	0.000425	ng/g
PCB 25 (BZ)		ND		0.0100	0.000329	ng/g
PCB 26 (BZ)		ND		0.0100	0.000349	ng/g
PCB 27 (BZ)		ND		0.0100	0.000367	ng/g
PCB 28 (BZ)	0.02U	**0.00119**	**Q B C20 J**	**0.0200**	**0.000355**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000349	ng/g
PCB 30 (BZ)		**0.00116**	**Q C18 J**	**0.0200**	**0.000449**	**ng/g**
PCB 31 (BZ)	0.02U	**0.00115**	**Q B J**	**0.0200**	**0.000347**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000359	ng/g
PCB 33 (BZ)	0.01U	**0.000954**	**Q B C21 J**	**0.0100**	**0.000356**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000363	ng/g
PCB 35 (BZ)		ND		0.0100	0.000373	ng/g
PCB 36 (BZ)		ND		0.0100	0.000361	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 020	Work Order #....:	LT36T1AA	Matrix....:	SOLID
Date Sampled....:	08/10/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000370	ng/g
PCB 38 (BZ)		ND		0.0100	0.000380	ng/g
PCB 39 (BZ)		ND		0.0100	0.000338	ng/g
PCB 40 (BZ)		ND		0.0100	0.000442	ng/g
PCB 41 (BZ)		ND		0.0100	0.000442	ng/g
PCB 42 (BZ)		ND		0.0100	0.000450	ng/g
PCB 43 (BZ)		ND		0.0100	0.000413	ng/g
PCB 44 (BZ)	0.01U	**0.00221**	**B C J**	**0.0100**	**0.000396**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000458	ng/g
PCB 46 (BZ)		ND		0.0100	0.000542	ng/g
PCB 47 (BZ)	0.01U	**0.00221**	**B C44 J**	**0.0100**	**0.000396**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000439	ng/g
PCB 49 (BZ)		ND		0.0100	0.000364	ng/g
PCB 50 (BZ)		ND		0.0100	0.000426	ng/g
PCB 51 (BZ)		ND		0.0100	0.000458	ng/g
PCB 52 (BZ)		**0.00108**	**Q J**	**0.0100**	**0.000426**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000426	ng/g
PCB 54 (BZ)		ND		0.0100	0.000440	ng/g
PCB 55 (BZ)		ND		0.0100	0.000343	ng/g
PCB 56 (BZ)		**0.00135**	**J**	**0.0100**	**0.000322**	**ng/g**
PCB 57 (BZ)		ND		0.0100	0.000326	ng/g
PCB 58 (BZ)		ND		0.0100	0.000325	ng/g
PCB 59 (BZ)		ND		0.0100	0.000315	ng/g
PCB 60 (BZ)		ND		0.0100	0.000332	ng/g
PCB 61 (BZ)		**0.00184**	**C J**	**0.0200**	**0.000315**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000315	ng/g
PCB 63 (BZ)		ND		0.0100	0.000302	ng/g
PCB 64 (BZ)		ND		0.0100	0.000298	ng/g
PCB 65 (BZ)	0.01U	**0.00221**	**B C44 J**	**0.0100**	**0.000396**	**ng/g**
PCB 66 (BZ)		**0.000555**	**Q J**	**0.0100**	**0.000313**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000293	ng/g
PCB 68 (BZ)		ND		0.0100	0.000296	ng/g
PCB 69 (BZ)		ND		0.0100	0.000364	ng/g
PCB 70 (BZ)		**0.00184**	**C61 J**	**0.0200**	**0.000315**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000442	ng/g
PCB 72 (BZ)		ND		0.0100	0.000317	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 020	**Work Order #....:**	LT36T1AA	**Matrix....:**	SOLID
Date Sampled....:	08/10/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND		0.0100	0.000413	ng/g
PCB 74 (BZ)	**0.00184**	**C61 J**	**0.0200**	**0.000315**	**ng/g**
PCB 75 (BZ)	ND		0.0100	0.000315	ng/g
PCB 76 (BZ)	**0.00184**	**C61 J**	**0.0200**	**0.000315**	**ng/g**
PCB 77 (BZ)	ND		0.0100	0.000310	ng/g
PCB 78 (BZ)	ND		0.0100	0.000337	ng/g
PCB 79 (BZ)	ND		0.0100	0.000296	ng/g
PCB 80 (BZ)	ND		0.0100	0.000289	ng/g
PCB 81 (BZ)	ND		0.0100	0.000301	ng/g
PCB 82 (BZ)	ND		0.0100	0.000416	ng/g
PCB 83 (BZ)	ND		0.0100	0.000350	ng/g
PCB 84 (BZ)	ND		0.0100	0.000398	ng/g
PCB 85 (BZ)	ND		0.0100	0.000288	ng/g
PCB 86 (BZ)	ND		0.0100	0.000295	ng/g
PCB 87 (BZ)	ND		0.0100	0.000295	ng/g
PCB 88 (BZ)	ND		0.0100	0.000354	ng/g
PCB 89 (BZ)	ND		0.0100	0.000385	ng/g
PCB 90 (BZ)	**0.00177**	**C J**	**0.0100**	**0.000300**	**ng/g**
PCB 91 (BZ)	ND		0.0100	0.000354	ng/g
PCB 92 (BZ)	ND		0.0100	0.000340	ng/g
PCB 93 (BZ)	ND		0.0100	0.000342	ng/g
PCB 94 (BZ)	ND		0.0100	0.000385	ng/g
PCB 95 (BZ)	**0.00111**	**Q J**	**0.0100**	**0.000362**	**ng/g**
PCB 96 (BZ)	ND		0.0100	0.000288	ng/g
PCB 97 (BZ)	ND		0.0100	0.000295	ng/g
PCB 98 (BZ)	ND		0.0100	0.000331	ng/g
PCB 99 (BZ)	ND		0.0100	0.000350	ng/g
PCB 100 (BZ)	ND		0.0100	0.000342	ng/g
PCB 101 (BZ)	**0.00177**	**C90 J**	**0.0100**	**0.000300**	**ng/g**
PCB 102 (BZ)	ND		0.0100	0.000331	ng/g
PCB 103 (BZ)	ND		0.0100	0.000337	ng/g
PCB 104 (BZ)	ND		0.0100	0.000256	ng/g
PCB 105 (BZ)	ND		0.0100	0.000249	ng/g
PCB 106 (BZ)	ND		0.0100	0.000262	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND		0.0100	0.000254	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND		0.0100	0.000267	ng/g

RJ Lee Group Inc.

Sample ID: WA180820090011-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 020	**Work Order #....:**	LT36T1AA	**Matrix....:**	SOLID
Date Sampled....:	08/10/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)		ND		0.0100	0.000295	ng/g
PCB 110 (BZ)		**0.00297**	**C J**	**0.0100**	**0.000254**	**ng/g**
PCB 111 (BZ)		ND		0.0100	0.000241	ng/g
PCB 112 (BZ)		ND		0.0100	0.000262	ng/g
PCB 113 (BZ)		**0.00177**	**C90 J**	**0.0100**	**0.000300**	**ng/g**
PCB 114 (BZ)		ND		0.0100	0.000232	ng/g
PCB 115 (BZ)		**0.00297**	**C110 J**	**0.0100**	**0.000254**	**ng/g**
PCB 116 (BZ)		ND		0.0100	0.000288	ng/g
PCB 117 (BZ)		ND		0.0100	0.000288	ng/g
PCB 118 (BZ)		**0.00234**	**J**	**0.0100**	**0.000248**	**ng/g**
PCB 119 (BZ)		ND		0.0100	0.000295	ng/g
PCB 120 (BZ)		ND		0.0100	0.000248	ng/g
PCB 121 (BZ)		ND		0.0100	0.000250	ng/g
PCB 122 (BZ)		ND		0.0100	0.000285	ng/g
PCB 123 (BZ)		ND		0.0100	0.000263	ng/g
PCB 124 (BZ)		ND		0.0100	0.000267	ng/g
PCB 125 (BZ)		ND		0.0100	0.000295	ng/g
PCB 126 (BZ)		ND		0.0100	0.000264	ng/g
PCB 127 (BZ)		ND		0.0100	0.000259	ng/g
PCB 128 (BZ)		**0.000637**	**Q C J**	**0.0100**	**0.000415**	**ng/g**
PCB 129 (BZ)	0.01U	**0.00478**	**B C J**	**0.0100**	**0.000429**	**ng/g**
PCB 130 (BZ)		ND		0.0100	0.000555	ng/g
PCB 131 (BZ)		ND		0.0100	0.000568	ng/g
PCB 132 (BZ)		**0.000812**	**Q J**	**0.0100**	**0.000541**	**ng/g**
PCB 133 (BZ)		ND		0.0100	0.000521	ng/g
PCB 134 (BZ)		ND		0.0100	0.000555	ng/g
PCB 135 (BZ)		ND		0.0100	0.000488	ng/g
PCB 136 (BZ)		ND		0.0100	0.000358	ng/g
PCB 137 (BZ)		ND		0.0100	0.000478	ng/g
PCB 138 (BZ)	0.01U	**0.00478**	**B C129 J**	**0.0100**	**0.000429**	**ng/g**
PCB 139 (BZ)		ND		0.0100	0.000476	ng/g
PCB 140 (BZ)		ND		0.0100	0.000476	ng/g
PCB 141 (BZ)		**0.000600**	**Q J**	**0.0100**	**0.000495**	**ng/g**
PCB 142 (BZ)		ND		0.0100	0.000546	ng/g
PCB 143 (BZ)		ND		0.0100	0.000555	ng/g
PCB 144 (BZ)		ND		0.0100	0.000453	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 020	**Work Order #....:**	LT36T1AA	**Matrix....:**	SOLID
Date Sampled....:	08/10/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)		ND		0.0100	0.000343	ng/g
PCB 146 (BZ)		ND		0.0100	0.000452	ng/g
PCB 147 (BZ)		**0.00180**	**Q C J**	**0.0100**	**0.000462**	**ng/g**
PCB 148 (BZ)		ND		0.0100	0.000479	ng/g
PCB 149 (BZ)		**0.00180**	**Q C147 J**	**0.0100**	**0.000462**	**ng/g**
PCB 150 (BZ)		ND		0.0100	0.000334	ng/g
PCB 151 (BZ)		ND		0.0100	0.000488	ng/g
PCB 152 (BZ)		ND		0.0100	0.000340	ng/g
PCB 153 (BZ)	0.01U	**0.00324**	**B C J**	**0.0100**	**0.000371**	**ng/g**
PCB 154 (BZ)		ND		0.0100	0.000397	ng/g
PCB 155 (BZ)		ND		0.0100	0.000325	ng/g
PCB 156 (BZ)		ND		0.0100	0.000449	ng/g
PCB 157 (BZ)		ND		0.0100	0.000449	ng/g
PCB 158 (BZ)		ND		0.0100	0.000339	ng/g
PCB 159 (BZ)		ND		0.0100	0.000363	ng/g
PCB 160 (BZ)	0.01U	**0.00478**	**B C129 J**	**0.0100**	**0.000429**	**ng/g**
PCB 161 (BZ)		ND		0.0100	0.000362	ng/g
PCB 162 (BZ)		ND		0.0100	0.000359	ng/g
PCB 163 (BZ)	0.01U	**0.00478**	**B C129 J**	**0.0100**	**0.000429**	**ng/g**
PCB 164 (BZ)		ND		0.0100	0.000378	ng/g
PCB 165 (BZ)		ND		0.0100	0.000398	ng/g
PCB 166 (BZ)		**0.000637**	**Q C128 J**	**0.0100**	**0.000415**	**ng/g**
PCB 167 (BZ)		ND		0.0100	0.000277	ng/g
PCB 168 (BZ)	0.01U	**0.00324**	**B C153 J**	**0.0100**	**0.000371**	**ng/g**
PCB 169 (BZ)		ND		0.0100	0.000277	ng/g
PCB 170 (BZ)		ND		0.0100	0.000526	ng/g
PCB 171 (BZ)		ND		0.0100	0.000500	ng/g
PCB 172 (BZ)		ND		0.0100	0.000495	ng/g
PCB 173 (BZ)		ND		0.0100	0.000500	ng/g
PCB 174 (BZ)		ND		0.0100	0.000464	ng/g
PCB 175 (BZ)		ND		0.0100	0.000445	ng/g
PCB 176 (BZ)		ND		0.0100	0.000339	ng/g
PCB 177 (BZ)		ND		0.0100	0.000475	ng/g
PCB 178 (BZ)		ND		0.0100	0.000481	ng/g
PCB 179 (BZ)		ND		0.0100	0.000358	ng/g
PCB 180 (BZ)	0.01U	**0.00281**	**B C J**	**0.0100**	**0.000378**	**ng/g**

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 020	Work Order #....:	LT36T1AA	Matrix....:	SOLID
Date Sampled....:	08/10/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)		ND		0.0100	0.000445	ng/g
PCB 182 (BZ)		ND		0.0100	0.000432	ng/g
PCB 183 (BZ)		ND		0.0100	0.000442	ng/g
PCB 184 (BZ)		ND		0.0100	0.000367	ng/g
PCB 185 (BZ)		ND		0.0100	0.000442	ng/g
PCB 186 (BZ)		ND		0.0100	0.000357	ng/g
PCB 187 (BZ)		**0.00135**	**J**	**0.0100**	**0.000414**	**ng/g**
PCB 188 (BZ)		ND		0.0100	0.000315	ng/g
PCB 189 (BZ)		ND		0.0100	0.000320	ng/g
PCB 190 (BZ)		ND		0.0100	0.000345	ng/g
PCB 191 (BZ)		ND		0.0100	0.000339	ng/g
PCB 192 (BZ)		ND		0.0100	0.000378	ng/g
PCB 193 (BZ)	0.01U	**0.00281**	**B C180 J**	**0.0100**	**0.000378**	**ng/g**
PCB 194 (BZ)	0.01U	**0.000696**	**Q B J**	**0.0100**	**0.000357**	**ng/g**
PCB 195 (BZ)		ND		0.0100	0.000387	ng/g
PCB 196 (BZ)		ND		0.0100	0.000452	ng/g
PCB 197 (BZ)		ND		0.0100	0.000336	ng/g
PCB 198 (BZ)		**0.00240**	**C J**	**0.0100**	**0.000467**	**ng/g**
PCB 201 (BZ)/199 (IUPAC)		**0.00240**	**C198 J**	**0.0100**	**0.000467**	**ng/g**
PCB 199 (BZ)/200 (IUPAC)		ND		0.0100	0.000330	ng/g
PCB 200 (BZ)/201 (IUPAC)		ND		0.0100	0.000319	ng/g
PCB 202 (BZ)		ND		0.0100	0.000359	ng/g
PCB 203 (BZ)		**0.00141**	**Q J**	**0.0100**	**0.000417**	**ng/g**
PCB 204 (BZ)		ND		0.0100	0.000350	ng/g
PCB 205 (BZ)		ND		0.0100	0.000300	ng/g
PCB 206 (BZ)	0.01U	**0.00328**	**Q B J**	**0.0100**	**0.000362**	**ng/g**
PCB 207 (BZ)		ND		0.0100	0.000265	ng/g
PCB 208 (BZ)		**0.00101**	**J**	**0.0100**	**0.000282**	**ng/g**
PCB 209 (BZ)		ND		0.0100	0.000421	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA180820090011-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 020	**Work Order #....:**	LT36T1AA	**Matrix....:**	SOLID
Date Sampled....:	08/10/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	66		30 - 140
13C12-PCB 3	58		30 - 140
13C12-PCB 4	85		30 - 140
13C12-PCB 15	74		30 - 140
13C12-PCB 19	81		30 - 140
13C12-PCB 37	76		30 - 140
13C12-PCB 54	80		30 - 140
13C12-PCB 77	77		30 - 140
13C12-PCB 81	78		30 - 140
13C12-PCB 104	84		30 - 140
13C12-PCB 105	84		30 - 140
13C12-PCB 114	86		30 - 140
13C12-PCB 118	82		30 - 140
13C12-PCB 123	83		30 - 140
13C12-PCB 126	85		30 - 140
13C12-PCB 155	97		30 - 140
13C12-PCB 156	86	C	30 - 140
13C12-PCB 157	86	C	30 - 140
13C12-PCB 167	84		30 - 140
13C12-PCB 169	84		30 - 140
13C12-PCB 170	94		30 - 140
13C12-PCB 188	99		30 - 140
13C12-PCB 189	88		30 - 140
13C12-PCB 202	112		30 - 140
13C12-PCB 205	96		30 - 140
13C12-PCB 206	103		30 - 140
13C12-PCB 208	97		30 - 140
13C12-PCB 209	99		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	82	40 - 125
13C12-PCB 111	87	40 - 125
13C12-PCB 178	86	40 - 125

RJ Lee Group Inc.

Sample ID: WA180820090011-005

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 020	**Work Order #....:**	LT36T1AA	**Matrix....:**	SOLID
Date Sampled....:	08/10/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA060120100001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 021	**Work Order #....:**	LT36X1AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000110	ng/g
PCB 2 (BZ)		ND		0.0100	0.000140	ng/g
PCB 3 (BZ)		ND		0.0100	0.000188	ng/g
PCB 4 (BZ)		ND		0.0200	0.00261	ng/g
PCB 5 (BZ)		ND		0.0100	0.00240	ng/g
PCB 6 (BZ)		ND		0.0100	0.00226	ng/g
PCB 7 (BZ)		ND		0.0100	0.00232	ng/g
PCB 8 (BZ)		**0.00255**	**Q B J**	**0.0200**	**0.00221**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00233	ng/g
PCB 10 (BZ)		ND		0.0100	0.00251	ng/g
PCB 11 (BZ)	0.02U	**0.0119**	**Q B J**	**0.0200**	**0.00222**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00228	ng/g
PCB 13 (BZ)		ND		0.0100	0.00228	ng/g
PCB 14 (BZ)		ND		0.0100	0.00196	ng/g
PCB 15 (BZ)		**0.00105**	**Q J**	**0.0100**	**0.00273**	**ng/g**
PCB 16 (BZ)		ND		0.0100	0.000819	ng/g
PCB 17 (BZ)		ND		0.0100	0.000683	ng/g
PCB 18 (BZ)		**0.00235**	**Q C J**	**0.0200**	**0.000605**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000837	ng/g
PCB 20 (BZ)	0.02U	**0.00310**	**Q B C J**	**0.0200**	**0.000464**	**ng/g**
PCB 21 (BZ)	0.01U	**0.00206**	**Q B C J**	**0.0100**	**0.000465**	**ng/g**
PCB 22 (BZ)		**0.00106**	**Q J**	**0.0100**	**0.000473**	**ng/g**
PCB 23 (BZ)		ND		0.0100	0.000482	ng/g
PCB 24 (BZ)		ND		0.0100	0.000573	ng/g
PCB 25 (BZ)		ND		0.0100	0.000430	ng/g
PCB 26 (BZ)		ND		0.0100	0.000456	ng/g
PCB 27 (BZ)		ND		0.0100	0.000494	ng/g
PCB 28 (BZ)	0.02U	**0.00310**	**Q B C20 J**	**0.0200**	**0.000464**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000456	ng/g
PCB 30 (BZ)		**0.00235**	**Q C18 J**	**0.0200**	**0.000605**	**ng/g**
PCB 31 (BZ)	0.02U	**0.00234**	**Q B J**	**0.0200**	**0.000453**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000484	ng/g
PCB 33 (BZ)	0.01U	**0.00206**	**Q B C21 J**	**0.0100**	**0.000465**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000475	ng/g
PCB 35 (BZ)		ND		0.0100	0.000488	ng/g
PCB 36 (BZ)		ND		0.0100	0.000471	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA060120100001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 021	**Work Order #....:**	LT36X1AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000484	ng/g
PCB 38 (BZ)		ND		0.0100	0.000497	ng/g
PCB 39 (BZ)		ND		0.0100	0.000442	ng/g
PCB 40 (BZ)		ND		0.0100	0.000575	ng/g
PCB 41 (BZ)		ND		0.0100	0.000575	ng/g
PCB 42 (BZ)		ND		0.0100	0.000585	ng/g
PCB 43 (BZ)		ND		0.0100	0.000537	ng/g
PCB 44 (BZ)	0.01U	**0.00318**	**B C J**	**0.0100**	**0.000514**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000596	ng/g
PCB 46 (BZ)		ND		0.0100	0.000705	ng/g
PCB 47 (BZ)	0.01U	**0.00318**	**B C44 J**	**0.0100**	**0.000514**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000571	ng/g
PCB 49 (BZ)		**0.000869**	**C J**	**0.0100**	**0.000474**	**ng/g**
PCB 50 (BZ)		ND		0.0100	0.000554	ng/g
PCB 51 (BZ)		ND		0.0100	0.000596	ng/g
PCB 52 (BZ)		**0.00233**	**J**	**0.0100**	**0.000555**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000554	ng/g
PCB 54 (BZ)		ND		0.0100	0.000569	ng/g
PCB 55 (BZ)		ND		0.0100	0.000446	ng/g
PCB 56 (BZ)		**0.000657**	**Q J**	**0.0100**	**0.000419**	**ng/g**
PCB 57 (BZ)		ND		0.0100	0.000424	ng/g
PCB 58 (BZ)		ND		0.0100	0.000422	ng/g
PCB 59 (BZ)		ND		0.0100	0.000410	ng/g
PCB 60 (BZ)		ND		0.0100	0.000432	ng/g
PCB 61 (BZ)		**0.00267**	**Q C J**	**0.0200**	**0.000409**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000410	ng/g
PCB 63 (BZ)		ND		0.0100	0.000393	ng/g
PCB 64 (BZ)		ND		0.0100	0.000388	ng/g
PCB 65 (BZ)	0.01U	**0.00318**	**B C44 J**	**0.0100**	**0.000514**	**ng/g**
PCB 66 (BZ)		**0.00151**	**J**	**0.0100**	**0.000407**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000381	ng/g
PCB 68 (BZ)		ND		0.0100	0.000384	ng/g
PCB 69 (BZ)		**0.000869**	**C49 J**	**0.0100**	**0.000474**	**ng/g**
PCB 70 (BZ)		**0.00267**	**Q C61 J**	**0.0200**	**0.000409**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000575	ng/g
PCB 72 (BZ)		ND		0.0100	0.000413	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA060120100001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 021	**Work Order #....:**	LT36X1AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND		0.0100	0.000537	ng/g
PCB 74 (BZ)	**0.00267**	**Q C61 J**	**0.0200**	**0.000409**	**ng/g**
PCB 75 (BZ)	ND		0.0100	0.000410	ng/g
PCB 76 (BZ)	**0.00267**	**Q C61 J**	**0.0200**	**0.000409**	**ng/g**
PCB 77 (BZ)	ND		0.0100	0.000411	ng/g
PCB 78 (BZ)	ND		0.0100	0.000438	ng/g
PCB 79 (BZ)	ND		0.0100	0.000385	ng/g
PCB 80 (BZ)	ND		0.0100	0.000376	ng/g
PCB 81 (BZ)	ND		0.0100	0.000384	ng/g
PCB 82 (BZ)	ND		0.0100	0.000522	ng/g
PCB 83 (BZ)	**0.00128**	**C J**	**0.0100**	**0.000439**	**ng/g**
PCB 84 (BZ)	ND		0.0100	0.000499	ng/g
PCB 85 (BZ)	ND		0.0100	0.000362	ng/g
PCB 86 (BZ)	**0.00172**	**Q C J**	**0.0100**	**0.000370**	**ng/g**
PCB 87 (BZ)	**0.00172**	**Q C86 J**	**0.0100**	**0.000370**	**ng/g**
PCB 88 (BZ)	ND		0.0100	0.000445	ng/g
PCB 89 (BZ)	ND		0.0100	0.000483	ng/g
PCB 90 (BZ)	**0.00216**	**C J**	**0.0100**	**0.000376**	**ng/g**
PCB 91 (BZ)	ND		0.0100	0.000445	ng/g
PCB 92 (BZ)	ND		0.0100	0.000427	ng/g
PCB 93 (BZ)	ND		0.0100	0.000429	ng/g
PCB 94 (BZ)	ND		0.0100	0.000483	ng/g
PCB 95 (BZ)	**0.00174**	**Q J**	**0.0100**	**0.000455**	**ng/g**
PCB 96 (BZ)	ND		0.0100	0.000361	ng/g
PCB 97 (BZ)	**0.00172**	**Q C86 J**	**0.0100**	**0.000370**	**ng/g**
PCB 98 (BZ)	ND		0.0100	0.000416	ng/g
PCB 99 (BZ)	**0.00128**	**C83 J**	**0.0100**	**0.000439**	**ng/g**
PCB 100 (BZ)	ND		0.0100	0.000429	ng/g
PCB 101 (BZ)	**0.00216**	**C90 J**	**0.0100**	**0.000376**	**ng/g**
PCB 102 (BZ)	ND		0.0100	0.000416	ng/g
PCB 103 (BZ)	ND		0.0100	0.000423	ng/g
PCB 104 (BZ)	ND		0.0100	0.000322	ng/g
PCB 105 (BZ)	**0.000941**	**Q J**	**0.0100**	**0.000326**	**ng/g**
PCB 106 (BZ)	ND		0.0100	0.000334	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND		0.0100	0.000324	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND		0.0100	0.000341	ng/g

RJ Lee Group Inc.

Sample ID: WA060120100001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 021	Work Order #....:	LT36X1AA	Matrix....:	SOLID
Date Sampled....:	12/29/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC		**0.00172**	**Q C86 J**	**0.0100**	**0.000370**	**ng/g**
PCB 110 (BZ)		**0.00284**	**C J**	**0.0100**	**0.000319**	**ng/g**
PCB 111 (BZ)		ND		0.0100	0.000303	ng/g
PCB 112 (BZ)		ND		0.0100	0.000329	ng/g
PCB 113 (BZ)		**0.00216**	**C90 J**	**0.0100**	**0.000376**	**ng/g**
PCB 114 (BZ)		ND		0.0100	0.000299	ng/g
PCB 115 (BZ)		**0.00284**	**C110 J**	**0.0100**	**0.000319**	**ng/g**
PCB 116 (BZ)		ND		0.0100	0.000362	ng/g
PCB 117 (BZ)		ND		0.0100	0.000362	ng/g
PCB 118 (BZ)		**0.00245**	**J**	**0.0100**	**0.000314**	**ng/g**
PCB 119 (BZ)		**0.00172**	**Q C86 J**	**0.0100**	**0.000370**	**ng/g**
PCB 120 (BZ)		ND		0.0100	0.000311	ng/g
PCB 121 (BZ)		ND		0.0100	0.000314	ng/g
PCB 122 (BZ)		ND		0.0100	0.000364	ng/g
PCB 123 (BZ)		ND		0.0100	0.000337	ng/g
PCB 124 (BZ)		ND		0.0100	0.000341	ng/g
PCB 125 (BZ)		**0.00172**	**Q C86 J**	**0.0100**	**0.000370**	**ng/g**
PCB 126 (BZ)		ND		0.0100	0.000327	ng/g
PCB 127 (BZ)		ND		0.0100	0.000330	ng/g
PCB 128 (BZ)		ND		0.0100	0.000491	ng/g
PCB 129 (BZ)	0.01U	**0.00200**	**Q B C J**	**0.0100**	**0.000507**	**ng/g**
PCB 130 (BZ)		ND		0.0100	0.000655	ng/g
PCB 131 (BZ)		ND		0.0100	0.000671	ng/g
PCB 132 (BZ)		**0.000901**	**J**	**0.0100**	**0.000639**	**ng/g**
PCB 133 (BZ)		ND		0.0100	0.000616	ng/g
PCB 134 (BZ)		ND		0.0100	0.000656	ng/g
PCB 135 (BZ)		ND		0.0100	0.000584	ng/g
PCB 136 (BZ)		ND		0.0100	0.000429	ng/g
PCB 137 (BZ)		ND		0.0100	0.000565	ng/g
PCB 138 (BZ)	0.01U	**0.00200**	**Q B C129 J**	**0.0100**	**0.000507**	**ng/g**
PCB 139 (BZ)		ND		0.0100	0.000562	ng/g
PCB 140 (BZ)		ND		0.0100	0.000562	ng/g
PCB 141 (BZ)		ND		0.0100	0.000585	ng/g
PCB 142 (BZ)		ND		0.0100	0.000645	ng/g
PCB 143 (BZ)		ND		0.0100	0.000656	ng/g
PCB 144 (BZ)		ND		0.0100	0.000542	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA060120100001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 021	**Work Order #....:**	LT36X1AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)		ND		0.0100	0.000410	ng/g
PCB 146 (BZ)		ND		0.0100	0.000534	ng/g
PCB 147 (BZ)		**0.00173**	**C J**	**0.0100**	**0.000545**	**ng/g**
PCB 148 (BZ)		ND		0.0100	0.000573	ng/g
PCB 149 (BZ)		**0.00173**	**C147 J**	**0.0100**	**0.000545**	**ng/g**
PCB 150 (BZ)		ND		0.0100	0.000399	ng/g
PCB 151 (BZ)		ND		0.0100	0.000584	ng/g
PCB 152 (BZ)		ND		0.0100	0.000407	ng/g
PCB 153 (BZ)	0.01U	**0.00165**	**B C J**	**0.0100**	**0.000439**	**ng/g**
PCB 154 (BZ)		ND		0.0100	0.000475	ng/g
PCB 155 (BZ)		ND		0.0100	0.000388	ng/g
PCB 156 (BZ)		ND		0.0100	0.000526	ng/g
PCB 157 (BZ)		ND		0.0100	0.000526	ng/g
PCB 158 (BZ)		ND		0.0100	0.000400	ng/g
PCB 159 (BZ)		ND		0.0100	0.000429	ng/g
PCB 160 (BZ)	0.01U	**0.00200**	**Q B C129 J**	**0.0100**	**0.000507**	**ng/g**
PCB 161 (BZ)		ND		0.0100	0.000427	ng/g
PCB 162 (BZ)		ND		0.0100	0.000424	ng/g
PCB 163 (BZ)	0.01U	**0.00200**	**Q B C129 J**	**0.0100**	**0.000507**	**ng/g**
PCB 164 (BZ)		ND		0.0100	0.000447	ng/g
PCB 165 (BZ)		ND		0.0100	0.000470	ng/g
PCB 166 (BZ)		ND		0.0100	0.000491	ng/g
PCB 167 (BZ)		ND		0.0100	0.000330	ng/g
PCB 168 (BZ)	0.01U	**0.00165**	**B C153 J**	**0.0100**	**0.000439**	**ng/g**
PCB 169 (BZ)		ND		0.0100	0.000328	ng/g
PCB 170 (BZ)		ND		0.0100	0.000580	ng/g
PCB 171 (BZ)		ND		0.0100	0.000557	ng/g
PCB 172 (BZ)		ND		0.0100	0.000552	ng/g
PCB 173 (BZ)		ND		0.0100	0.000557	ng/g
PCB 174 (BZ)		ND		0.0100	0.000517	ng/g
PCB 175 (BZ)		ND		0.0100	0.000496	ng/g
PCB 176 (BZ)		ND		0.0100	0.000378	ng/g
PCB 177 (BZ)		ND		0.0100	0.000529	ng/g
PCB 178 (BZ)		ND		0.0100	0.000536	ng/g
PCB 179 (BZ)		ND		0.0100	0.000398	ng/g
PCB 180 (BZ)		ND		0.0100	0.000421	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA060120100001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 021	**Work Order #....:**	LT36X1AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND	0.0100	0.000496	ng/g
PCB 182 (BZ)	ND	0.0100	0.000482	ng/g
PCB 183 (BZ)	ND	0.0100	0.000492	ng/g
PCB 184 (BZ)	ND	0.0100	0.000409	ng/g
PCB 185 (BZ)	ND	0.0100	0.000492	ng/g
PCB 186 (BZ)	ND	0.0100	0.000397	ng/g
PCB 187 (BZ)	ND	0.0100	0.000461	ng/g
PCB 188 (BZ)	ND	0.0100	0.000353	ng/g
PCB 189 (BZ)	ND	0.0100	0.000348	ng/g
PCB 190 (BZ)	ND	0.0100	0.000384	ng/g
PCB 191 (BZ)	ND	0.0100	0.000378	ng/g
PCB 192 (BZ)	ND	0.0100	0.000422	ng/g
PCB 193 (BZ)	ND	0.0100	0.000421	ng/g
PCB 194 (BZ)	ND	0.0100	0.000370	ng/g
PCB 195 (BZ)	ND	0.0100	0.000402	ng/g
PCB 196 (BZ)	ND	0.0100	0.000485	ng/g
PCB 197 (BZ)	ND	0.0100	0.000361	ng/g
PCB 198 (BZ)	ND	0.0100	0.000501	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND	0.0100	0.000501	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND	0.0100	0.000354	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND	0.0100	0.000342	ng/g
PCB 202 (BZ)	ND	0.0100	0.000386	ng/g
PCB 203 (BZ)	ND	0.0100	0.000447	ng/g
PCB 204 (BZ)	ND	0.0100	0.000375	ng/g
PCB 205 (BZ)	ND	0.0100	0.000312	ng/g
PCB 206 (BZ)	ND	0.0100	0.000372	ng/g
PCB 207 (BZ)	ND	0.0100	0.000262	ng/g
PCB 208 (BZ)	ND	0.0100	0.000270	ng/g
PCB 209 (BZ)	ND	0.0100	0.000450	ng/g

RJ Lee Group Inc.

Sample ID: WA060120100001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 021	**Work Order #....:**	LT36X1AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	54		30 - 140
13C12-PCB 3	48		30 - 140
13C12-PCB 4	71		30 - 140
13C12-PCB 15	62		30 - 140
13C12-PCB 19	69		30 - 140
13C12-PCB 37	68		30 - 140
13C12-PCB 54	70		30 - 140
13C12-PCB 77	65		30 - 140
13C12-PCB 81	68		30 - 140
13C12-PCB 104	77		30 - 140
13C12-PCB 105	74		30 - 140
13C12-PCB 114	78		30 - 140
13C12-PCB 118	74		30 - 140
13C12-PCB 123	75		30 - 140
13C12-PCB 126	77		30 - 140
13C12-PCB 155	86		30 - 140
13C12-PCB 156	76	C	30 - 140
13C12-PCB 157	76	C	30 - 140
13C12-PCB 167	73		30 - 140
13C12-PCB 169	75		30 - 140
13C12-PCB 170	83		30 - 140
13C12-PCB 188	86		30 - 140
13C12-PCB 189	80		30 - 140
13C12-PCB 202	100		30 - 140
13C12-PCB 205	88		30 - 140
13C12-PCB 206	93		30 - 140
13C12-PCB 208	90		30 - 140
13C12-PCB 209	90		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	77	40 - 125
13C12-PCB 111	82	40 - 125
13C12-PCB 178	81	40 - 125

RJ Lee Group Inc.

Sample ID: WA060120100001-001

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 021	**Work Order #....:**	LT36X1AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA060120100001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 022	**Work Order #....:**	LT3601AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000125	ng/g
PCB 2 (BZ)		ND		0.0100	0.000158	ng/g
PCB 3 (BZ)		ND		0.0100	0.000211	ng/g
PCB 4 (BZ)		ND		0.0200	0.00286	ng/g
PCB 5 (BZ)		ND		0.0100	0.00267	ng/g
PCB 6 (BZ)		ND		0.0100	0.00251	ng/g
PCB 7 (BZ)		ND		0.0100	0.00258	ng/g
PCB 8 (BZ)		**0.00149**	**Q B J**	**0.0200**	**0.00246**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00259	ng/g
PCB 10 (BZ)		ND		0.0100	0.00279	ng/g
PCB 11 (BZ)	0.02U	**0.00486**	**Q B J**	**0.0200**	**0.00247**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00253	ng/g
PCB 13 (BZ)		ND		0.0100	0.00253	ng/g
PCB 14 (BZ)		ND		0.0100	0.00218	ng/g
PCB 15 (BZ)		ND		0.0100	0.00308	ng/g
PCB 16 (BZ)		**0.000987**	**Q J**	**0.0100**	**0.000815**	**ng/g**
PCB 17 (BZ)		ND		0.0100	0.000680	ng/g
PCB 18 (BZ)		**0.00114**	**Q C J**	**0.0200**	**0.000602**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000833	ng/g
PCB 20 (BZ)	0.02U	**0.00207**	**B C J**	**0.0200**	**0.000495**	**ng/g**
PCB 21 (BZ)	0.01U	**0.00115**	**B C J**	**0.0100**	**0.000497**	**ng/g**
PCB 22 (BZ)		**0.000573**	**Q J**	**0.0100**	**0.000504**	**ng/g**
PCB 23 (BZ)		ND		0.0100	0.000514	ng/g
PCB 24 (BZ)		ND		0.0100	0.000570	ng/g
PCB 25 (BZ)		ND		0.0100	0.000459	ng/g
PCB 26 (BZ)		ND		0.0100	0.000487	ng/g
PCB 27 (BZ)		ND		0.0100	0.000491	ng/g
PCB 28 (BZ)	0.02U	**0.00207**	**B C20 J**	**0.0200**	**0.000495**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000487	ng/g
PCB 30 (BZ)		**0.00114**	**Q C18 J**	**0.0200**	**0.000602**	**ng/g**
PCB 31 (BZ)	0.02U	**0.00155**	**B J**	**0.0200**	**0.000484**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000482	ng/g
PCB 33 (BZ)	0.01U	**0.00115**	**B C21 J**	**0.0100**	**0.000497**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000507	ng/g
PCB 35 (BZ)		ND		0.0100	0.000521	ng/g
PCB 36 (BZ)		ND		0.0100	0.000503	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA060120100001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 022	**Work Order #....:**	LT3601AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000516	ng/g
PCB 38 (BZ)		ND		0.0100	0.000531	ng/g
PCB 39 (BZ)		ND		0.0100	0.000472	ng/g
PCB 40 (BZ)		ND		0.0100	0.000614	ng/g
PCB 41 (BZ)		ND		0.0100	0.000614	ng/g
PCB 42 (BZ)		ND		0.0100	0.000625	ng/g
PCB 43 (BZ)		ND		0.0100	0.000573	ng/g
PCB 44 (BZ)	0.01U	**0.00248**	**Q B C J**	**0.0100**	**0.000549**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000636	ng/g
PCB 46 (BZ)		ND		0.0100	0.000752	ng/g
PCB 47 (BZ)	0.01U	**0.00248**	**Q B C44 J**	**0.0100**	**0.000549**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000609	ng/g
PCB 49 (BZ)		**0.000712**	**Q C J**	**0.0100**	**0.000506**	**ng/g**
PCB 50 (BZ)		ND		0.0100	0.000591	ng/g
PCB 51 (BZ)		ND		0.0100	0.000636	ng/g
PCB 52 (BZ)		ND		0.0100	0.000592	ng/g
PCB 53 (BZ)		ND		0.0100	0.000591	ng/g
PCB 54 (BZ)		ND		0.0100	0.000568	ng/g
PCB 55 (BZ)		ND		0.0100	0.000475	ng/g
PCB 56 (BZ)		ND		0.0100	0.000447	ng/g
PCB 57 (BZ)		ND		0.0100	0.000453	ng/g
PCB 58 (BZ)		ND		0.0100	0.000450	ng/g
PCB 59 (BZ)		ND		0.0100	0.000437	ng/g
PCB 60 (BZ)		ND		0.0100	0.000461	ng/g
PCB 61 (BZ)		**0.00171**	**C J**	**0.0200**	**0.000437**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000437	ng/g
PCB 63 (BZ)		ND		0.0100	0.000420	ng/g
PCB 64 (BZ)		**0.000448**	**Q J**	**0.0100**	**0.000414**	**ng/g**
PCB 65 (BZ)	0.01U	**0.00248**	**Q B C44 J**	**0.0100**	**0.000549**	**ng/g**
PCB 66 (BZ)		**0.00104**	**J**	**0.0100**	**0.000434**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000407	ng/g
PCB 68 (BZ)		ND		0.0100	0.000410	ng/g
PCB 69 (BZ)		**0.000712**	**Q C49 J**	**0.0100**	**0.000506**	**ng/g**
PCB 70 (BZ)		**0.00171**	**C61 J**	**0.0200**	**0.000437**	**ng/g**
PCB 71 (BZ)		ND		0.0100	0.000614	ng/g
PCB 72 (BZ)		ND		0.0100	0.000440	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA060120100001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 022	**Work Order #....:**	LT3601AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND		0.0100	0.000573	ng/g
PCB 74 (BZ)	**0.00171**	**C61 J**	**0.0200**	**0.000437**	**ng/g**
PCB 75 (BZ)	ND		0.0100	0.000437	ng/g
PCB 76 (BZ)	**0.00171**	**C61 J**	**0.0200**	**0.000437**	**ng/g**
PCB 77 (BZ)	ND		0.0100	0.000438	ng/g
PCB 78 (BZ)	ND		0.0100	0.000468	ng/g
PCB 79 (BZ)	ND		0.0100	0.000411	ng/g
PCB 80 (BZ)	ND		0.0100	0.000401	ng/g
PCB 81 (BZ)	ND		0.0100	0.000411	ng/g
PCB 82 (BZ)	ND		0.0100	0.000487	ng/g
PCB 83 (BZ)	ND		0.0100	0.000409	ng/g
PCB 84 (BZ)	ND		0.0100	0.000465	ng/g
PCB 85 (BZ)	ND		0.0100	0.000337	ng/g
PCB 86 (BZ)	**0.000485**	**Q C J**	**0.0100**	**0.000345**	**ng/g**
PCB 87 (BZ)	**0.000485**	**Q C86 J**	**0.0100**	**0.000345**	**ng/g**
PCB 88 (BZ)	ND		0.0100	0.000414	ng/g
PCB 89 (BZ)	ND		0.0100	0.000450	ng/g
PCB 90 (BZ)	**0.000884**	**Q C J**	**0.0100**	**0.000351**	**ng/g**
PCB 91 (BZ)	ND		0.0100	0.000414	ng/g
PCB 92 (BZ)	ND		0.0100	0.000398	ng/g
PCB 93 (BZ)	ND		0.0100	0.000400	ng/g
PCB 94 (BZ)	ND		0.0100	0.000450	ng/g
PCB 95 (BZ)	ND		0.0100	0.000423	ng/g
PCB 96 (BZ)	ND		0.0100	0.000336	ng/g
PCB 97 (BZ)	**0.000485**	**Q C86 J**	**0.0100**	**0.000345**	**ng/g**
PCB 98 (BZ)	ND		0.0100	0.000387	ng/g
PCB 99 (BZ)	ND		0.0100	0.000409	ng/g
PCB 100 (BZ)	ND		0.0100	0.000400	ng/g
PCB 101 (BZ)	**0.000884**	**Q C90 J**	**0.0100**	**0.000351**	**ng/g**
PCB 102 (BZ)	ND		0.0100	0.000387	ng/g
PCB 103 (BZ)	ND		0.0100	0.000394	ng/g
PCB 104 (BZ)	ND		0.0100	0.000300	ng/g
PCB 105 (BZ)	ND		0.0100	0.000305	ng/g
PCB 106 (BZ)	ND		0.0100	0.000321	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND		0.0100	0.000312	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND		0.0100	0.000328	ng/g

RJ Lee Group Inc.

Sample ID: WA060120100001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 022	Work Order #....:	LT3601AA	Matrix....:	SOLID
Date Sampled....:	12/29/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC		**0.000485**	**Q C86 J**	**0.0100**	**0.000345**	**ng/g**
PCB 110 (BZ)		**0.00100**	**C J**	**0.0100**	**0.000297**	**ng/g**
PCB 111 (BZ)		ND		0.0100	0.000282	ng/g
PCB 112 (BZ)		ND		0.0100	0.000306	ng/g
PCB 113 (BZ)		**0.000884**	**Q C90 J**	**0.0100**	**0.000351**	**ng/g**
PCB 114 (BZ)		ND		0.0100	0.000288	ng/g
PCB 115 (BZ)		**0.00100**	**C110 J**	**0.0100**	**0.000297**	**ng/g**
PCB 116 (BZ)		ND		0.0100	0.000337	ng/g
PCB 117 (BZ)		ND		0.0100	0.000337	ng/g
PCB 118 (BZ)		**0.000868**	**J**	**0.0100**	**0.000310**	**ng/g**
PCB 119 (BZ)		**0.000485**	**Q C86 J**	**0.0100**	**0.000345**	**ng/g**
PCB 120 (BZ)		ND		0.0100	0.000290	ng/g
PCB 121 (BZ)		ND		0.0100	0.000292	ng/g
PCB 122 (BZ)		ND		0.0100	0.000350	ng/g
PCB 123 (BZ)		ND		0.0100	0.000318	ng/g
PCB 124 (BZ)		ND		0.0100	0.000328	ng/g
PCB 125 (BZ)		**0.000485**	**Q C86 J**	**0.0100**	**0.000345**	**ng/g**
PCB 126 (BZ)		ND		0.0100	0.000321	ng/g
PCB 127 (BZ)		ND		0.0100	0.000317	ng/g
PCB 128 (BZ)		ND		0.0100	0.000455	ng/g
PCB 129 (BZ)	0.01U	**0.000960**	**B C J**	**0.0100**	**0.000470**	**ng/g**
PCB 130 (BZ)		ND		0.0100	0.000607	ng/g
PCB 131 (BZ)		ND		0.0100	0.000622	ng/g
PCB 132 (BZ)		ND		0.0100	0.000592	ng/g
PCB 133 (BZ)		ND		0.0100	0.000571	ng/g
PCB 134 (BZ)		ND		0.0100	0.000608	ng/g
PCB 135 (BZ)		ND		0.0100	0.000565	ng/g
PCB 136 (BZ)		ND		0.0100	0.000415	ng/g
PCB 137 (BZ)		ND		0.0100	0.000524	ng/g
PCB 138 (BZ)	0.01U	**0.000960**	**B C129 J**	**0.0100**	**0.000470**	**ng/g**
PCB 139 (BZ)		ND		0.0100	0.000521	ng/g
PCB 140 (BZ)		ND		0.0100	0.000521	ng/g
PCB 141 (BZ)		ND		0.0100	0.000542	ng/g
PCB 142 (BZ)		ND		0.0100	0.000598	ng/g
PCB 143 (BZ)		ND		0.0100	0.000608	ng/g
PCB 144 (BZ)		ND		0.0100	0.000525	ng/g

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RJ Lee Group Inc.

Sample ID: WA060120100001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 022	**Work Order #....:**	LT3601AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)		ND		0.0100	0.000397	ng/g
PCB 146 (BZ)		ND		0.0100	0.000495	ng/g
PCB 147 (BZ)		ND		0.0100	0.000506	ng/g
PCB 148 (BZ)		ND		0.0100	0.000555	ng/g
PCB 149 (BZ)		ND		0.0100	0.000506	ng/g
PCB 150 (BZ)		ND		0.0100	0.000387	ng/g
PCB 151 (BZ)		ND		0.0100	0.000565	ng/g
PCB 152 (BZ)		ND		0.0100	0.000394	ng/g
PCB 153 (BZ)	0.01U	**0.000708**	**Q B C J**	**0.0100**	**0.000406**	**ng/g**
PCB 154 (BZ)		ND		0.0100	0.000460	ng/g
PCB 155 (BZ)		ND		0.0100	0.000376	ng/g
PCB 156 (BZ)		ND		0.0100	0.000486	ng/g
PCB 157 (BZ)		ND		0.0100	0.000486	ng/g
PCB 158 (BZ)		ND		0.0100	0.000371	ng/g
PCB 159 (BZ)		ND		0.0100	0.000398	ng/g
PCB 160 (BZ)	0.01U	**0.000960**	**B C129 J**	**0.0100**	**0.000470**	**ng/g**
PCB 161 (BZ)		ND		0.0100	0.000396	ng/g
PCB 162 (BZ)		ND		0.0100	0.000393	ng/g
PCB 163 (BZ)	0.01U	**0.000960**	**B C129 J**	**0.0100**	**0.000470**	**ng/g**
PCB 164 (BZ)		ND		0.0100	0.000414	ng/g
PCB 165 (BZ)		ND		0.0100	0.000435	ng/g
PCB 166 (BZ)		ND		0.0100	0.000455	ng/g
PCB 167 (BZ)		ND		0.0100	0.000303	ng/g
PCB 168 (BZ)	0.01U	**0.000708**	**Q B C153 J**	**0.0100**	**0.000406**	**ng/g**
PCB 169 (BZ)		ND		0.0100	0.000307	ng/g
PCB 170 (BZ)		ND		0.0100	0.000565	ng/g
PCB 171 (BZ)		ND		0.0100	0.000559	ng/g
PCB 172 (BZ)		ND		0.0100	0.000554	ng/g
PCB 173 (BZ)		ND		0.0100	0.000559	ng/g
PCB 174 (BZ)		ND		0.0100	0.000519	ng/g
PCB 175 (BZ)		ND		0.0100	0.000498	ng/g
PCB 176 (BZ)		ND		0.0100	0.000379	ng/g
PCB 177 (BZ)		ND		0.0100	0.000531	ng/g
PCB 178 (BZ)		ND		0.0100	0.000538	ng/g
PCB 179 (BZ)		ND		0.0100	0.000400	ng/g
PCB 180 (BZ)		ND		0.0100	0.000423	ng/g

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9-13-2010

RJ Lee Group Inc.

Sample ID: WA060120100001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 022	**Work Order #....:**	LT3601AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000498	ng/g
PCB 182 (BZ)	ND		0.0100	0.000484	ng/g
PCB 183 (BZ)	ND		0.0100	0.000494	ng/g
PCB 184 (BZ)	ND		0.0100	0.000411	ng/g
PCB 185 (BZ)	ND		0.0100	0.000494	ng/g
PCB 186 (BZ)	ND		0.0100	0.000399	ng/g
PCB 187 (BZ)	ND		0.0100	0.000463	ng/g
PCB 188 (BZ)	ND		0.0100	0.000361	ng/g
PCB 189 (BZ)	ND		0.0100	0.000362	ng/g
PCB 190 (BZ)	ND		0.0100	0.000386	ng/g
PCB 191 (BZ)	ND		0.0100	0.000379	ng/g
PCB 192 (BZ)	ND		0.0100	0.000423	ng/g
PCB 193 (BZ)	ND		0.0100	0.000423	ng/g
PCB 194 (BZ)	ND		0.0100	0.000421	ng/g
PCB 195 (BZ)	ND		0.0100	0.000456	ng/g
PCB 196 (BZ)	ND		0.0100	0.000477	ng/g
PCB 197 (BZ)	ND		0.0100	0.000355	ng/g
PCB 198 (BZ)	ND		0.0100	0.000493	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND		0.0100	0.000493	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND		0.0100	0.000349	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND		0.0100	0.000337	ng/g
PCB 202 (BZ)	ND		0.0100	0.000379	ng/g
PCB 203 (BZ)	ND		0.0100	0.000440	ng/g
PCB 204 (BZ)	ND		0.0100	0.000369	ng/g
PCB 205 (BZ)	ND		0.0100	0.000354	ng/g
PCB 206 (BZ)	ND		0.0100	0.000510	ng/g
PCB 207 (BZ)	ND		0.0100	0.000371	ng/g
PCB 208 (BZ)	ND		0.0100	0.000392	ng/g
PCB 209 (BZ)	**0.000785**	**Q J**	**0.0100**	**0.000451**	**ng/g**

RJ Lee Group Inc.

Sample ID: WA060120100001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 022	**Work Order #....:**	LT3601AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	57		30 - 140
13C12-PCB 3	49		30 - 140
13C12-PCB 4	75		30 - 140
13C12-PCB 15	62		30 - 140
13C12-PCB 19	74		30 - 140
13C12-PCB 37	68		30 - 140
13C12-PCB 54	75		30 - 140
13C12-PCB 77	67		30 - 140
13C12-PCB 81	69		30 - 140
13C12-PCB 104	80		30 - 140
13C12-PCB 105	78		30 - 140
13C12-PCB 114	80		30 - 140
13C12-PCB 118	76		30 - 140
13C12-PCB 123	77		30 - 140
13C12-PCB 126	79		30 - 140
13C12-PCB 155	89		30 - 140
13C12-PCB 156	80	C	30 - 140
13C12-PCB 157	80	C	30 - 140
13C12-PCB 167	78		30 - 140
13C12-PCB 169	79		30 - 140
13C12-PCB 170	86		30 - 140
13C12-PCB 188	89		30 - 140
13C12-PCB 189	82		30 - 140
13C12-PCB 202	106		30 - 140
13C12-PCB 205	89		30 - 140
13C12-PCB 206	94		30 - 140
13C12-PCB 208	92		30 - 140
13C12-PCB 209	90		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	79	40 - 125
13C12-PCB 111	84	40 - 125
13C12-PCB 178	82	40 - 125

RJ Lee Group Inc.

Sample ID: WA060120100001-002

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 022	**Work Order #....:**	LT3601AA	**Matrix....:**	SOLID
Date Sampled....:	12/29/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

RJ Lee Group Inc.

Sample ID: WA060120100001-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 023	Work Order #....:	LT3611AA	Matrix....:	SOLID
Date Sampled....:	12/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)		ND		0.0100	0.000118	ng/g
PCB 2 (BZ)		ND		0.0100	0.000144	ng/g
PCB 3 (BZ)		ND		0.0100	0.000181	ng/g
PCB 4 (BZ)		ND		0.0200	0.00235	ng/g
PCB 5 (BZ)		ND		0.0100	0.00217	ng/g
PCB 6 (BZ)		ND		0.0100	0.00204	ng/g
PCB 7 (BZ)		ND		0.0100	0.00210	ng/g
PCB 8 (BZ)		**0.00119**	**Q B J**	**0.0200**	**0.00199**	**ng/g**
PCB 9 (BZ)		ND		0.0100	0.00211	ng/g
PCB 10 (BZ)		ND		0.0100	0.00226	ng/g
PCB 11 (BZ)	0.02U	**0.00463**	**Q B J**	**0.0200**	**0.00201**	**ng/g**
PCB 12 (BZ)		ND		0.0100	0.00206	ng/g
PCB 13 (BZ)		ND		0.0100	0.00206	ng/g
PCB 14 (BZ)		ND		0.0100	0.00177	ng/g
PCB 15 (BZ)		ND		0.0100	0.00247	ng/g
PCB 16 (BZ)		ND		0.0100	0.000764	ng/g
PCB 17 (BZ)		ND		0.0100	0.000637	ng/g
PCB 18 (BZ)		**0.000981**	**Q C J**	**0.0200**	**0.000564**	**ng/g**
PCB 19 (BZ)		ND		0.0100	0.000781	ng/g
PCB 20 (BZ)	0.02U	**0.00209**	**B C J**	**0.0200**	**0.000430**	**ng/g**
PCB 21 (BZ)	0.01U	**0.00111**	**Q B C J**	**0.0100**	**0.000431**	**ng/g**
PCB 22 (BZ)		**0.000821**	**J**	**0.0100**	**0.000438**	**ng/g**
PCB 23 (BZ)		ND		0.0100	0.000447	ng/g
PCB 24 (BZ)		ND		0.0100	0.000534	ng/g
PCB 25 (BZ)		ND		0.0100	0.000398	ng/g
PCB 26 (BZ)		ND		0.0100	0.000423	ng/g
PCB 27 (BZ)		ND		0.0100	0.000461	ng/g
PCB 28 (BZ)	0.02U	**0.00209**	**B C20 J**	**0.0200**	**0.000430**	**ng/g**
PCB 29 (BZ)		ND		0.0100	0.000423	ng/g
PCB 30 (BZ)		**0.000981**	**Q C18 J**	**0.0200**	**0.000564**	**ng/g**
PCB 31 (BZ)	0.02U	**0.00103**	**Q B J**	**0.0200**	**0.000420**	**ng/g**
PCB 32 (BZ)		ND		0.0100	0.000452	ng/g
PCB 33 (BZ)	0.01U	**0.00111**	**Q B C21 J**	**0.0100**	**0.000431**	**ng/g**
PCB 34 (BZ)		ND		0.0100	0.000440	ng/g
PCB 35 (BZ)		ND		0.0100	0.000452	ng/g
PCB 36 (BZ)		ND		0.0100	0.000437	ng/g

LS
9-13-2010

RJ Lee Group Inc.

Sample ID: WA060120100001-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 023	Work Order #....:	LT3611AA	Matrix....:	SOLID
Date Sampled....:	12/30/09	Date Received....:	02/02/10	Dilution Factor:	1
Prep Date....:	02/03/10	Analysis Date....:	02/10/10	Percent Moisture:	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)		ND		0.0100	0.000448	ng/g
PCB 38 (BZ)		ND		0.0100	0.000461	ng/g
PCB 39 (BZ)		ND		0.0100	0.000409	ng/g
PCB 40 (BZ)		**0.000756**	**Q C J**	**0.0100**	**0.000527**	**ng/g**
PCB 41 (BZ)		**0.000756**	**Q C40 J**	**0.0100**	**0.000527**	**ng/g**
PCB 42 (BZ)		ND		0.0100	0.000536	ng/g
PCB 43 (BZ)		ND		0.0100	0.000492	ng/g
PCB 44 (BZ)	0.01U	**0.00195**	**B C J**	**0.0100**	**0.000471**	**ng/g**
PCB 45 (BZ)		ND		0.0100	0.000546	ng/g
PCB 46 (BZ)		ND		0.0100	0.000646	ng/g
PCB 47 (BZ)	0.01U	**0.00195**	**B C44 J**	**0.0100**	**0.000471**	**ng/g**
PCB 48 (BZ)		ND		0.0100	0.000523	ng/g
PCB 49 (BZ)		ND		0.0100	0.000434	ng/g
PCB 50 (BZ)		ND		0.0100	0.000507	ng/g
PCB 51 (BZ)		ND		0.0100	0.000546	ng/g
PCB 52 (BZ)		**0.000858**	**Q J**	**0.0100**	**0.000508**	**ng/g**
PCB 53 (BZ)		ND		0.0100	0.000507	ng/g
PCB 54 (BZ)		ND		0.0100	0.000493	ng/g
PCB 55 (BZ)		ND		0.0100	0.000408	ng/g
PCB 56 (BZ)		ND		0.0100	0.000384	ng/g
PCB 57 (BZ)		ND		0.0100	0.000389	ng/g
PCB 58 (BZ)		ND		0.0100	0.000387	ng/g
PCB 59 (BZ)		ND		0.0100	0.000375	ng/g
PCB 60 (BZ)		ND		0.0100	0.000396	ng/g
PCB 61 (BZ)		**0.00182**	**C J**	**0.0200**	**0.000375**	**ng/g**
PCB 62 (BZ)		ND		0.0100	0.000375	ng/g
PCB 63 (BZ)		ND		0.0100	0.000360	ng/g
PCB 64 (BZ)		ND		0.0100	0.000355	ng/g
PCB 65 (BZ)	0.01U	**0.00195**	**B C44 J**	**0.0100**	**0.000471**	**ng/g**
PCB 66 (BZ)		**0.000938**	**Q J**	**0.0100**	**0.000372**	**ng/g**
PCB 67 (BZ)		ND		0.0100	0.000349	ng/g
PCB 68 (BZ)		ND		0.0100	0.000352	ng/g
PCB 69 (BZ)		ND		0.0100	0.000434	ng/g
PCB 70 (BZ)		**0.00182**	**C61 J**	**0.0200**	**0.000375**	**ng/g**
PCB 71 (BZ)		**0.000756**	**Q C40 J**	**0.0100**	**0.000527**	**ng/g**
PCB 72 (BZ)		ND		0.0100	0.000378	ng/g

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9-13-2010

RJ Lee Group Inc.

Sample ID: WA060120100001-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 023	**Work Order #....:**	LT3611AA	**Matrix....:**	SOLID
Date Sampled....:	12/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND		0.0100	0.000492	ng/g
PCB 74 (BZ)	**0.00182**	**C61 J**	**0.0200**	**0.000375**	**ng/g**
PCB 75 (BZ)	ND		0.0100	0.000375	ng/g
PCB 76 (BZ)	**0.00182**	**C61 J**	**0.0200**	**0.000375**	**ng/g**
PCB 77 (BZ)	ND		0.0100	0.000370	ng/g
PCB 78 (BZ)	ND		0.0100	0.000402	ng/g
PCB 79 (BZ)	ND		0.0100	0.000353	ng/g
PCB 80 (BZ)	ND		0.0100	0.000344	ng/g
PCB 81 (BZ)	ND		0.0100	0.000359	ng/g
PCB 82 (BZ)	ND		0.0100	0.000483	ng/g
PCB 83 (BZ)	ND		0.0100	0.000406	ng/g
PCB 84 (BZ)	ND		0.0100	0.000461	ng/g
PCB 85 (BZ)	ND		0.0100	0.000334	ng/g
PCB 86 (BZ)	ND		0.0100	0.000342	ng/g
PCB 87 (BZ)	ND		0.0100	0.000342	ng/g
PCB 88 (BZ)	ND		0.0100	0.000411	ng/g
PCB 89 (BZ)	ND		0.0100	0.000446	ng/g
PCB 90 (BZ)	ND		0.0100	0.000348	ng/g
PCB 91 (BZ)	ND		0.0100	0.000411	ng/g
PCB 92 (BZ)	ND		0.0100	0.000395	ng/g
PCB 93 (BZ)	ND		0.0100	0.000396	ng/g
PCB 94 (BZ)	ND		0.0100	0.000446	ng/g
PCB 95 (BZ)	ND		0.0100	0.000420	ng/g
PCB 96 (BZ)	ND		0.0100	0.000334	ng/g
PCB 97 (BZ)	ND		0.0100	0.000342	ng/g
PCB 98 (BZ)	ND		0.0100	0.000384	ng/g
PCB 99 (BZ)	ND		0.0100	0.000406	ng/g
PCB 100 (BZ)	ND		0.0100	0.000396	ng/g
PCB 101 (BZ)	ND		0.0100	0.000348	ng/g
PCB 102 (BZ)	ND		0.0100	0.000384	ng/g
PCB 103 (BZ)	ND		0.0100	0.000391	ng/g
PCB 104 (BZ)	ND		0.0100	0.000297	ng/g
PCB 105 (BZ)	ND		0.0100	0.000304	ng/g
PCB 106 (BZ)	ND		0.0100	0.000323	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND		0.0100	0.000314	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND		0.0100	0.000330	ng/g

RJ Lee Group Inc.

Sample ID: WA060120100001-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 023	**Work Order #....:**	LT3611AA	**Matrix....:**	SOLID
Date Sampled....:	12/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)		ND		0.0100	0.000342	ng/g
PCB 110 (BZ)		**0.00136**	**C J**	**0.0100**	**0.000295**	**ng/g**
PCB 111 (BZ)		ND		0.0100	0.000280	ng/g
PCB 112 (BZ)		ND		0.0100	0.000304	ng/g
PCB 113 (BZ)		ND		0.0100	0.000348	ng/g
PCB 114 (BZ)		ND		0.0100	0.000290	ng/g
PCB 115 (BZ)		**0.00136**	**C110 J**	**0.0100**	**0.000295**	**ng/g**
PCB 116 (BZ)		ND		0.0100	0.000334	ng/g
PCB 117 (BZ)		ND		0.0100	0.000334	ng/g
PCB 118 (BZ)		**0.00101**	**Q J**	**0.0100**	**0.000308**	**ng/g**
PCB 119 (BZ)		ND		0.0100	0.000342	ng/g
PCB 120 (BZ)		ND		0.0100	0.000288	ng/g
PCB 121 (BZ)		ND		0.0100	0.000290	ng/g
PCB 122 (BZ)		ND		0.0100	0.000352	ng/g
PCB 123 (BZ)		ND		0.0100	0.000324	ng/g
PCB 124 (BZ)		ND		0.0100	0.000330	ng/g
PCB 125 (BZ)		ND		0.0100	0.000342	ng/g
PCB 126 (BZ)		ND		0.0100	0.000325	ng/g
PCB 127 (BZ)		ND		0.0100	0.000320	ng/g
PCB 128 (BZ)		ND		0.0100	0.000421	ng/g
PCB 129 (BZ)	0.01U	**0.00108**	**B C J**	**0.0100**	**0.000436**	**ng/g**
PCB 130 (BZ)		ND		0.0100	0.000563	ng/g
PCB 131 (BZ)		ND		0.0100	0.000576	ng/g
PCB 132 (BZ)		ND		0.0100	0.000548	ng/g
PCB 133 (BZ)		ND		0.0100	0.000529	ng/g
PCB 134 (BZ)		ND		0.0100	0.000563	ng/g
PCB 135 (BZ)		ND		0.0100	0.000466	ng/g
PCB 136 (BZ)		ND		0.0100	0.000342	ng/g
PCB 137 (BZ)		ND		0.0100	0.000485	ng/g
PCB 138 (BZ)	0.01U	**0.00108**	**B C129 J**	**0.0100**	**0.000436**	**ng/g**
PCB 139 (BZ)		ND		0.0100	0.000483	ng/g
PCB 140 (BZ)		ND		0.0100	0.000483	ng/g
PCB 141 (BZ)		ND		0.0100	0.000502	ng/g
PCB 142 (BZ)		ND		0.0100	0.000554	ng/g
PCB 143 (BZ)		ND		0.0100	0.000563	ng/g
PCB 144 (BZ)		ND		0.0100	0.000432	ng/g

RJ Lee Group Inc.

Sample ID: WA060120100001-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 023	**Work Order #....:**	LT3611AA	**Matrix....:**	SOLID
Date Sampled....:	12/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER		RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)		ND		0.0100	0.000327	ng/g
PCB 146 (BZ)		ND		0.0100	0.000458	ng/g
PCB 147 (BZ)		**0.000681**	**Q C J**	**0.0100**	**0.000468**	**ng/g**
PCB 148 (BZ)		ND		0.0100	0.000457	ng/g
PCB 149 (BZ)		**0.000681**	**Q C147 J**	**0.0100**	**0.000468**	**ng/g**
PCB 150 (BZ)		ND		0.0100	0.000319	ng/g
PCB 151 (BZ)		ND		0.0100	0.000466	ng/g
PCB 152 (BZ)		ND		0.0100	0.000325	ng/g
PCB 153 (BZ)	0.01U	**0.000879**	**B C J**	**0.0100**	**0.000377**	**ng/g**
PCB 154 (BZ)		ND		0.0100	0.000379	ng/g
PCB 155 (BZ)		ND		0.0100	0.000310	ng/g
PCB 156 (BZ)		ND		0.0100	0.000447	ng/g
PCB 157 (BZ)		ND		0.0100	0.000447	ng/g
PCB 158 (BZ)		ND		0.0100	0.000344	ng/g
PCB 159 (BZ)		ND		0.0100	0.000369	ng/g
PCB 160 (BZ)	0.01U	**0.00108**	**B C129 J**	**0.0100**	**0.000436**	**ng/g**
PCB 161 (BZ)		ND		0.0100	0.000367	ng/g
PCB 162 (BZ)		ND		0.0100	0.000364	ng/g
PCB 163 (BZ)	0.01U	**0.00108**	**B C129 J**	**0.0100**	**0.000436**	**ng/g**
PCB 164 (BZ)		ND		0.0100	0.000384	ng/g
PCB 165 (BZ)		ND		0.0100	0.000403	ng/g
PCB 166 (BZ)		ND		0.0100	0.000421	ng/g
PCB 167 (BZ)		ND		0.0100	0.000277	ng/g
PCB 168 (BZ)	0.01U	**0.000879**	**B C153 J**	**0.0100**	**0.000377**	**ng/g**
PCB 169 (BZ)		ND		0.0100	0.000292	ng/g
PCB 170 (BZ)		ND		0.0100	0.000536	ng/g
PCB 171 (BZ)		ND		0.0100	0.000514	ng/g
PCB 172 (BZ)		ND		0.0100	0.000509	ng/g
PCB 173 (BZ)		ND		0.0100	0.000514	ng/g
PCB 174 (BZ)		ND		0.0100	0.000476	ng/g
PCB 175 (BZ)		ND		0.0100	0.000457	ng/g
PCB 176 (BZ)		ND		0.0100	0.000348	ng/g
PCB 177 (BZ)		ND		0.0100	0.000488	ng/g
PCB 178 (BZ)		ND		0.0100	0.000494	ng/g
PCB 179 (BZ)		ND		0.0100	0.000367	ng/g
PCB 180 (BZ)		ND		0.0100	0.000388	ng/g

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9-13-2010

RJ Lee Group Inc.

Sample ID: WA060120100001-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 023	**Work Order #....:**	LT3611AA	**Matrix....:**	SOLID
Date Sampled....:	12/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND	0.0100	0.000457	ng/g
PCB 182 (BZ)	ND	0.0100	0.000444	ng/g
PCB 183 (BZ)	ND	0.0100	0.000454	ng/g
PCB 184 (BZ)	ND	0.0100	0.000377	ng/g
PCB 185 (BZ)	ND	0.0100	0.000454	ng/g
PCB 186 (BZ)	ND	0.0100	0.000366	ng/g
PCB 187 (BZ)	ND	0.0100	0.000425	ng/g
PCB 188 (BZ)	ND	0.0100	0.000325	ng/g
PCB 189 (BZ)	ND	0.0100	0.000340	ng/g
PCB 190 (BZ)	ND	0.0100	0.000354	ng/g
PCB 191 (BZ)	ND	0.0100	0.000348	ng/g
PCB 192 (BZ)	ND	0.0100	0.000389	ng/g
PCB 193 (BZ)	ND	0.0100	0.000388	ng/g
PCB 194 (BZ)	ND	0.0100	0.000353	ng/g
PCB 195 (BZ)	ND	0.0100	0.000383	ng/g
PCB 196 (BZ)	ND	0.0100	0.000445	ng/g
PCB 197 (BZ)	ND	0.0100	0.000331	ng/g
PCB 198 (BZ)	ND	0.0100	0.000459	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND	0.0100	0.000459	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND	0.0100	0.000325	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND	0.0100	0.000314	ng/g
PCB 202 (BZ)	ND	0.0100	0.000353	ng/g
PCB 203 (BZ)	ND	0.0100	0.000410	ng/g
PCB 204 (BZ)	ND	0.0100	0.000344	ng/g
PCB 205 (BZ)	ND	0.0100	0.000298	ng/g
PCB 206 (BZ)	ND	0.0100	0.000336	ng/g
PCB 207 (BZ)	ND	0.0100	0.000247	ng/g
PCB 208 (BZ)	ND	0.0100	0.000264	ng/g
PCB 209 (BZ)	ND	0.0100	0.000448	ng/g

RJ Lee Group Inc.

Sample ID: WA060120100001-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 023	**Work Order #....:**	LT3611AA	**Matrix....:**	SOLID
Date Sampled....:	12/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	59		30 - 140
13C12-PCB 3	50		30 - 140
13C12-PCB 4	77		30 - 140
13C12-PCB 15	64		30 - 140
13C12-PCB 19	75		30 - 140
13C12-PCB 37	73		30 - 140
13C12-PCB 54	77		30 - 140
13C12-PCB 77	69		30 - 140
13C12-PCB 81	71		30 - 140
13C12-PCB 104	85		30 - 140
13C12-PCB 105	83		30 - 140
13C12-PCB 114	85		30 - 140
13C12-PCB 118	82		30 - 140
13C12-PCB 123	83		30 - 140
13C12-PCB 126	84		30 - 140
13C12-PCB 155	95		30 - 140
13C12-PCB 156	84	C	30 - 140
13C12-PCB 157	84	C	30 - 140
13C12-PCB 167	82		30 - 140
13C12-PCB 169	82		30 - 140
13C12-PCB 170	93		30 - 140
13C12-PCB 188	97		30 - 140
13C12-PCB 189	85		30 - 140
13C12-PCB 202	113		30 - 140
13C12-PCB 205	95		30 - 140
13C12-PCB 206	102		30 - 140
13C12-PCB 208	97		30 - 140
13C12-PCB 209	99		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	80	40 - 125
13C12-PCB 111	87	40 - 125
13C12-PCB 178	87	40 - 125

RJ Lee Group Inc.

Sample ID: WA060120100001-003

Trace Level Organic Compounds

Lot - Sample #....:	H0B020462 - 023	**Work Order #....:**	LT3611AA	**Matrix....:**	SOLID
Date Sampled....:	12/30/09	**Date Received....:**	02/02/10	**Dilution Factor:**	1
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10	**Percent Moisture:**	
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Appendix 4

Laboratory Narrative and Chain-of-Custody Documentation

PROJECT NARRATIVE
H0B020462

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present.

The chain of custody documentation did not list a collection date/time for the samples. The client emailed the missing information.

Limited volume was received for samples WA060820090001-001 and WA060820090001-002.

A bottle of sodium sulfate was received but was not listed on the chain of custody.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

For method blank LT49J-1AA, PCB 180/193 was present at a concentration in excess of the estimated minimum level (EML) of 0.01 ng/g at 0.0104 ng/g.

For method blank LT50H-1AA, PCB 20/28 was present at a concentration in excess of the estimated minimum level (EML) of 0.04 ng/L at 0.0475 ng/L.

The method referenced for the analysis was EPA 1668 Revision A.

Nomenclature
The standardization strategy described in this report uses the naming convention of SW-846 Method 8290. This convention differs from Method 1668A in the following manner:

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Lab #88-0688, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Lab #PH-0223, Florida DOH Lab #E87177, Georgia DNR Lab #906, Hawaii DOH, Illinois EPA Lab #200012, Indiana DOH Lab #C-TN-02, Iowa DNR Lab #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH, Maryland DOE Cert. #277, Michigan DEQ Lab #9933, Nevada DEP, New Jersey DEP Lab #TN001, New York DOH Lab #10781, North Carolina DPH Lab #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Lab #CL0059, Oklahoma DEQ Lab #9415, Pennsylvania DEP Lab #68-00576, South Carolina DHEC Cert #84001001, Tennessee DOH Lab #02014, Texas CEQ, Utah DOH Lab # QUAN3, Virginia DGS Lab #00165, Washington DOE Lab #C1314, West Virginia DEP Cert. #345, West Virginia DHHR Cert #9955C, Wisconsin DNR Lab #998044300, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H0B020462

Standard Addition Occurs Prior To:	Method 1668 A	SW-846 Conventions Used in This Report
Sampling	None	Sampling Surrogate
Extraction	Labeled Toxics/LOC/Window Defining	Internal Standard
Cleanups	Labeled Cleanup Standard	Cleanup Standard*
Injection	Labeled Injection Internal Standard	Recovery Standard

* Cleanup Standard is also referred to as Surrogate Standard on report.

The shorthand notation used for congeners in this report is summarized in Table 2.

Qualifiers:

The following flags are used to qualify results for HRMS PCB results:

J – The reported result is an estimate. The amount reported is below the Estimated Minimum Level (EML). EML is defined by the method as the lowest concentration at which an analyte can be measured reliably with common laboratory interferences present. This value has been determined for each congener by MDL and laboratory method blank studies. The value is adjusted to reflect sample specific initial and final volumes.

E – The reported result is an estimate. The amount reported is above the UCL described below.

The E qualifier is applied on the basis of the **Upper Calibration Level (UCL)**. The quantitative definition of the UCL is listed below:

Upper Calibration Level: The concentration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed.

B – The analyte is present in the associated method blank at a reportable level. For this analysis, there is no method specified reporting level, other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of 2.5-to-1. Therefore, the presence of any amount of the analyte present in the blank will result a B qualifier on all associated samples.

PROJECT NARRATIVE
H0B020462

Note: Some laboratories do not report contamination in the blank unless it is above their lower calibration limit, or an established percentage of the level in the samples, or an established percentage of the regulatory limit. Likewise, some laboratories set a reporting limit at one half the lower calibration limit.

Q – Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. The criteria include the following areas:
- Ion abundance ratios must be within specified limits (+/-15% of theoretical ion abundance ratio.)
- Retention time criteria (relative to the method-specified isotope labeled retention time standard).
- Co-maximization criterion. The two quantitation ion peaks must reach their maxima within 2 seconds of each other.

S – Ion suppression evident. The trace indicating the signal from the lock mass of the calibration compound shows a deflection at the retention time of the analyte. This may indicate a temporary suppression of the instrument sensitivity, due to a matrix-borne interference.

C – Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer. When the C flag is followed by a number, the number indicates the lowest numbered congener among the coelution set. For example, if 100 pg/L is detected at the retention time of PCB 156, and PCB 157 is known to coelute with PCB 156, the results will be flagged as follows:
PCB 156 100 pg/L C
PCB 157 100 pg/L C156

In certain electronic deliverables the result field for PCB 157 will be null, with "C156" appearing in the qualifier field in accordance with the CARP EDD specification.

X – Other. See explanation in narrative.

Results
The results for the analyses are summarized in the following pages. Please see comments regarding qualifiers, above. Additional information regarding qualifiers is explained in the legends at the end of each result summary. All PCB shorthand identifications are done in accordance with the IUPAC convention. A summary of the IUPAC convention is provided in Table 2.

PROJECT NARRATIVE
H0B020462

Detection Limits
For all analyte results a sample specific detection limit is calculated for that analyte. This is done by first determining the GC/MS peak height of the noise or interferent in the expected region of the analyte signal. This value is multiplied by the number 2.5, which serves as a safety factor. The 2.5 safety factor is disregarded if the noise present in the analyte region is a result of chemical interferences. The resulting signal response value is then used to estimate the minimum detectable analyte amount. The result is the estimated sample detection limit.

When an analyte is not detected, an ND appears in place of the result. The value in the detection limit column is the estimated detection limit for the analyte in that particular sample.

EXAMPLE CALCULATIONS
The following formulas were used for sample calculations. Examples are given for calculating the percent recovery for internal standard $^{13}C_{12}$-PCB 1, the concentration of native PCB 1 and the EDL for PCB 1. All values used in the calculations below are typical (i.e. not extracted from a particular sample). Actual values are found on the IsoCalc Preliminary Sample Report (IPSR) at the position indicated (in parentheses, below):

INTERNAL STANDARD RECOVERY ($^{13}C_{12}$-PCB 1)

$$\text{Percent Recovery} = \frac{\Sigma A_{IS} \bullet W_{RS} \bullet 100\%}{\Sigma A_{RS} \bullet W_{IS} \bullet RRF}$$

ΣA_{IS} = Sum of areas for the Internal Standard quantitation ions. (IPSR – Column "Area", Row "13C12-PCB 1")

W_{RS} = Mass in ng of the Recovery Standard. (IPSR – Column "Std Amt", Row "13C12-PCB 9")

ΣA_{RS} = Sum of areas for the Recovery Standard quantitation ions. (IPSR – Column "Area", Row "13C12-PCB 9")

W_{IS} = Mass in ng of the Internal Standard. (IPSR – Column "Std Amt", Row "13C12-PCB 1")

RRF = Internal Standard mean relative response factor from the initial multipoint calibration. (IPSR - Column "RF", Row "13C12-PCB 1".)

PROJECT NARRATIVE
H0B020462

Substituting typical values , $\frac{1106275 \bullet 2.000\ (ng) \bullet 100\%}{1205581 \bullet 2.000\ (ng) \bullet 1.412}$ = 65% Recovery

NATIVE ANALYTE QUANTITATION (PCB 1)

$$\text{Conc} = \frac{\Sigma A_X \bullet W_{IS}}{\Sigma A_{IS} \bullet V \bullet 0.001\ (mL/L) \bullet RRF}$$

ΣA_X = Sum of areas for analyte quantitation ions. (IPSR – Area Column "Area", Row "PCB 1")

W_{IS} = Mass in ng of Internal Standard. (IPSR – Column "Std Amt", Row "13C12-PCB 1")

ΣA_{IS} = Sum areas for the Internal Standard. (IPSR – Column "Area", Row 13C12-PCB 1)

V = Volume of sample extracted in mL. (IPSR – Header Column 2, Row "Initial Wt/Vol")

RRF = Native analyte mean relative response factor from the initial calibration, or daily response factor as appropriate. (IPSR – Column "RF", Row "PCB 1")

Substituting typical values, $\frac{8951 \bullet 2.000\ (ng)}{1106275 \bullet 2200\ (mL) \bullet 0.001\ (mL/L) \bullet 1.136}$ = 0.00647 ng/L = 6.47 pg/L

CALCULATION OF SAMPLE SPECIFIC ESTIMATED DETECTION LIMIT

This calculation uses the noise values found on the IsoCalc Preliminary Peak Report (IPPR), which follows the IPSR. All the other values used in the equation are found on the IPSR.)

PROJECT NARRATIVE
H0B020462

$$\frac{\Sigma I_X \bullet W_{IS} \bullet T_{SN}}{\Sigma I_{IS} \bullet V \bullet 0.001\ (mL/L) \bullet RRF}$$

ΣI_X = Sum of the intensities of the noise levels of the characteristic ions in the region of analyte elution. (IPPR – Columns "Height1" and "Height2", Row {mass} 188, Sub-Row "Noise").

W_{IS} = Mass in ng of the Internal Standard. (IPSR – Column "Std Amt", Row "13C12-PCB 1").

T_{SN} = Minimum Signal-to-Noise threshold. = 2.5. A constant, specified by the method.

ΣI_{IS} = Intensity of the corresponding ^{13}C ions. (IPSR – Column "Height", Row "13C12-PCB 9")

V = Volume of sample extracted in mL. (IPSR – Header Column 2, Row "Initial Wt/Vol")

RRF = Native analyte mean relative response factor from the initial calibration or daily standard as appropriate. (IPSR – Column "RF", Row "PCB 1")

Substituting typical values $$\frac{79 \bullet 2000\ (pg) \bullet 2.5}{334600 \bullet 2200\ (mL) \bullet 0.001\ (mL/L) \bullet 1.136} = 0.466\ pg/L$$

In sample data, peaks must have an intensity of 2.5 times the height of the background noise in order to be considered. Careful examination of the two equations above, and a bit of algebra reveals that for the concentration of the smallest peak detectable (per the EDL equation) to exactly equal the smallest peaks that are calculated, requires that the average height to area ratio obtained during the calibration must equal the area to height ratio for every peak obtained near 2.5 times the noise. When the area to height ratio on a peak in a sample is less than the average obtained during calibration, the calculated result will correspond to a peak that would have been less than 2.5 X the noise on the calibration. This is the result of normal variability. Because the source method for the EDL (EPA 1668 Revision A) does not provide for censoring of results by any other magnitude standard than being 2.5 times the noise, the laboratory does not censor at the calculated EDL. Hence, detections may be reported below the estimated detection limits.

PROJECT NARRATIVE
H0B020462

Table 1							
Concentration of PCBs in Calibration Solutions							
		CS 0.5	CS 1	CS 2	CS 3[2]	CS 4	CS 5
Analyte Type	BZ/IUPAC[1]	ng/mL	ng/mL	ng/mL	ng/mL	ng/mL	ng/mL
Congeners							
2-MoCB	1	0.5	1.0	5.0	50	400	2000
4-MoCB	3	0.5	1.0	5.0	50	400	2000
2,2'-DiCB	4	0.5	1.0	5.0	50	400	2000
4,4'-DiCB	15	0.5	1.0	5.0	50	400	2000
2,2',6'-TrCB	19	0.5	1.0	5.0	50	400	2000
3,4,4'-TrCB	37	0.5	1.0	5.0	50	400	2000
2,2',6,6'-TeCB	54	0.5	1.0	5.0	50	400	2000
3,3',4,4'-TeCB	77	0.5	1.0	5.0	50	400	2000
3,4,4',5-TeCB	81	0.5	1.0	5.0	50	400	2000
2,2',4,6,6'-PeCB	104	0.5	1.0	5.0	50	400	2000
2,3,3',4,4'-PeCB	105	0.5	1.0	5.0	50	400	2000
2,3,4,4',5-PeCB	114	0.5	1.0	5.0	50	400	2000
2,3',4,4',5-PeCB	118	0.5	1.0	5.0	50	400	2000
2',3,4,4',5-PeCB	123	0.5	1.0	5.0	50	400	2000
3,3',4,4',5-PeCB	126	0.5	1.0	5.0	50	400	2000
2,2',4,4',6,6'-HxCB	155	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5-HxCB	156	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5'-HxCB	157	0.5	1.0	5.0	50	400	2000
2,3',4,4',5,5'-HxCB	167	0.5	1.0	5.0	50	400	2000
3,3',4,4',5,5'-HxCB	169	0.5	1.0	5.0	50	400	2000
2,2',3,4',5,6,6'-HpCB	188	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5,5'-HpCB	189	0.5	1.0	5.0	50	400	2000
2,2',3,3',5,5',6,6'-OcCB	202	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5,5',6-OcCB	205	0.5	1.0	5.0	50	400	2000
2,2',3,3',4,4',5,5',6-NoCB	206	0.5	1.0	5.0	50	400	2000
2,2',3,3',4',5,5',6,6'-NoCB	208	0.5	1.0	5.0	50	400	2000
DeCB	209	0.5	1.0	5.0	50	400	2000
All other CB congeners		0.5	1.0	5.0	50	400	2000
Labeled Congeners							
$^{13}C_{12}$-2-MoCB	1L	100	100	100	100	100	100
$^{13}C_{12}$-4-MoCB	3L	100	100	100	100	100	100
$^{13}C_{12}$-2,2'-DiCB	4L	100	100	100	100	100	100
$^{13}C_{12}$-4,4'-DiCB	15L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',6-TrCB	19L	100	100	100	100	100	100
$^{13}C_{12}$-3,4,4'-TrCB	37L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',6,6'-TeCB	54L	100	100	100	100	100	100
$^{13}C_{12}$-3,3',4,4'-TeCB	77L	100	100	100	100	100	100
$^{13}C_{12}$-3,4,4',5-TeCB	81L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,4',5-PeCB	114L	100	100	100	100	100	100
$^{13}C_{12}$-2,3',4,4',5-PeCB	118L	100	100	100	100	100	100
$^{13}C_{12}$-2',3,4,4',5-PeCB	123L	100	100	100	100	100	100
$^{13}C_{12}$-3,3',4,4',5-PeCB	126L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157L	100	100	100	100	100	100
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167L	100	100	100	100	100	100
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,3',4,4',5-HpCB	170L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,3',4',5,5',6,6'-NoCB	208L	100	100	100	100	100	100
$^{13}C_{12}$-DeCB	209L	100	100	100	100	100	100

PROJECT NARRATIVE
H0B020462

Table 1 Concentration of PCBs in Calibration Solutions							
		CS 0.5	CS 1	CS 2	CS 3[2]	CS 4	CS 5
Analyte Type	BZ/IUPAC[1]	ng/mL	ng/mL	ng/mL	ng/mL	ng/mL	ng/mL
Congeners							
Cleanup Standards							
$^{13}C_{12}$-2,4,4'-TriCB	28L	0.5	1.0	5.0	50	400	--
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111L	0.5	1.0	5.0	50	400	--
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178L	0.5	1.0	5.0	50	400	--
Recovery Standards							
$^{13}C_{12}$-2,5-DiCB	9L	100	100	100	100	100	100
$^{13}C_{12}$-2,4',5-TriCB	31L	100	100	100	100	100	100
$^{13}C_{12}$-2,4',6-TriCB	32L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',5,5'-TeCB	52L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',4',5,5'-PeCB	101L	100	100	100	100	100	100
$^{13}C_{12}$-3,3',4,5,5'-PeCB	127L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3',4,4',5'-HxCB	138L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,4,4',5,5'-HpCB	180L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,3',4,4',5,5'-OcCB	194L	100	100	100	100	100	100
Labeled Sampling Surrogates							
$^{13}C_{12}$-2,4'-DiCB	8L	0.5	1.0	5.0	50	400	--
$^{13}C_{12}$-3,3',4,5'-TeCB	79L	0.5	1.0	5.0	50	400	--
$^{13}C_{12}$-2,2',3,5',6-PeCB	95L	0.5	1.0	5.0	50	400	--
$^{13}C_{12}$-2,2',4,4',5,5'-HxCB	153L	0.5	1.0	5.0	50	400	--

Notes:
1. Suffix "L" indicates labeled compound
2. Section 15.3, calibration verification solution

Table 2 PCB Shorthand Nomenclature Used in this Report					
BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number	BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number
1	2-monochlorobiphenyl	2051-60-7	106	2,3,3',4,5-pentachlorobiphenyl	70424-69-0
2	3-monochlorobiphenyl	2051-61-8	107/109	2,3,3',4,6-pentachlorobiphenyl	74472-35-8
3	4-monochlorobiphenyl	2051-62-9	108/107	2,3,3',4',5-pentachlorobiphenyl	70424-68-9
4	2,2'-dichlorobiphenyl	13029-08-8	109/108	2,3,3',4,5'-pentachlorobiphenyl	70362-41-3
5	2,3-dichlorobiphenyl	16605-91-7	110	2,3,3',4',6-pentachlorobiphenyl	38380-03-9
6	2,3'-dichlorobiphenyl	25569-80-6	111	2,3,3',5,5'-pentachlorobiphenyl	39635-32-0
7	2,4-dichlorobiphenyl	33284-50-3	112	2,3,3',5,6-pentachlorobiphenyl	74472-36-9
8	2,4'-dichlorobiphenyl	34883-43-7	113	2,3,3',5',6-pentachlorobiphenyl	68194-10-5
9	2,5-dichlorobiphenyl	34883-39-1	114	2,3,4,4',5-pentachlorobiphenyl	74472-37-0
10	2,6-dichlorobiphenyl	33146-45-1	115	2,3,4,4',6-pentachlorobiphenyl	74472-38-1
11	3,3'-dichlorobiphenyl	2050-67-1	116	2,3,4,5,6-pentachlorobiphenyl	18259-05-7
12	3,4-dichlorobiphenyl	2974-92-7	117	2,3,4',5,6-pentachlorobiphenyl	68194-11-6
13	3,4'-dichlorobiphenyl	2974-90-5	118	2,3',4,4',5-pentachlorobiphenyl	31508-00-6
14	3,5-dichlorobiphenyl	34883-41-5	119	2,3',4,4',6-pentachlorobiphenyl	56558-17-9
15	4,4'-dichlorobiphenyl	2050-68-2	120	2,3',4,5,5'-pentachlorobiphenyl	68194-12-7
16	2,2',3-trichlorobiphenyl	38444-78-9	121	2,3',4,5',6-pentachlorobiphenyl	56558-18-0
17	2,2',4-trichlorobiphenyl	37680-66-3	122	2',3,3',4,5-pentachlorobiphenyl (2,3,3',4',5'-pentachlorobiphenyl)	76842-07-4
18	2,2',5-trichlorobiphenyl	37680-65-2	123	2',3,4,4',5-pentachlorobiphenyl (2,3',4,4',5'-pentachlorobiphenyl)	65510-44-3
19	2,2',6-trichlorobiphenyl	38444-73-4	124	2',3,4,5,5'-pentachlorobiphenyl (2,3',4',5',5-pentachlorobiphenyl)	70424-70-3
20	2,3,3'-trichlorobiphenyl	38444-84-7	125	2',3,4,5,6'-pentachlorobiphenyl (2,3',4',5',6-pentachlorobiphenyl)	74472-39-2
21	2,3,4-trichlorobiphenyl	55702-46-0	126	3,3',4,4',5-pentachlorobiphenyl	57465-28-8
22	2,3,4'-trichlorobiphenyl	38444-85-8	127	3,3',4,5,5'-pentachlorobiphenyl	39635-33-1
23	2,3,5-trichlorobiphenyl	55720-44-0	128	2,2',3,3',4,4'-hexachlorobiphenyl	38380-07-3

PROJECT NARRATIVE
H0B020462

Table 2

PCB Shorthand Nomenclature Used in this Report

BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number	BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number
24	2,3,6-trichlorobiphenyl	55702-45-9	129	2,2',3,3',4,5-hexachlorobiphenyl	55215-18-4
25	2,3',4-trichlorobiphenyl	55712-37-3	130	2,2',3,3',4,5'-hexachlorobiphenyl	52663-66-8
26	2,3',5-trichlorobiphenyl	38444-81-4	131	2,2',3,3',4,6-hexachlorobiphenyl	61798-70-7
27	2,3',6-trichlorobiphenyl	38444-76-7	132	2,2',3,3',4,6'-hexachlorobiphenyl	38380-05-1
28	2,4,4'-trichlorobiphenyl	7012-37-5	133	2,2',3,3',5,5'-hexachlorobiphenyl	35694-04-3
29	2,4,5-trichlorobiphenyl	15862-07-4	134	2,2',3,3',5,6-hexachlorobiphenyl	52704-70-8
30	2,4,6-trichlorobiphenyl	35693-92-6	135	2,2',3,3',5,6'-hexachlorobiphenyl	52744-13-5
31	2,4',5-trichlorobiphenyl	16606-02-3	136	2,2',3,3',6,6'-hexachlorobiphenyl	38411-22-2
32	2,4',6-trichlorobiphenyl	38444-77-8	137	2,2',3,4,4',5-hexachlorobiphenyl	35694-06-5
33	2',3,4-trichlorobiphenyl (2,3',4'-trichlorobiphenyl)	38444-86-9	138	2,2',3,4,4',5'-hexachlorobiphenyl	35065-28-2
34	2',3,5-trichlorobiphenyl (2,3',5'-trichlorobiphenyl)	37680-68-5	139	2,2',3,4,4',6-hexachlorobiphenyl	56030-56-9
35	3,3',4-trichlorobiphenyl	37680-69-6	140	2,2',3,4,4',6'-hexachlorobiphenyl	59291-64-4
36	3,3',5-trichlorobiphenyl	38444-87-0	141	2,2',3,4,5,5'-hexachlorobiphenyl	52712-04-6
37	3,4,4'-trichlorobiphenyl	38444-90-5	142	2,2',3,4,5,6-hexachlorobiphenyl	41411-61-4
38	3,4,5-trichlorobiphenyl	53555-66-1	143	2,2',3,4,5,6'-hexachlorobiphenyl	68194-15-0
39	3,4',5-trichlorobiphenyl	38444-88-1	144	2,2',3,4,5',6-hexachlorobiphenyl	68194-14-9
40	2,2',3,3'-tetrachlorobiphenyl	38444-93-8	145	2,2',3,4,6,6'-hexachlorobiphenyl	74472-40-5
41	2,2',3,4-tetrachlorobiphenyl	52663-59-9	146	2,2',3,4',5,5'-hexachlorobiphenyl	51908-16-8
42	2,2',3,4'-tetrachlorobiphenyl	36559-22-5	147	2,2',3,4',5,6-hexachlorobiphenyl	68194-13-8
43	2,2',3,5-tetrachlorobiphenyl	70362-46-8	148	2,2',3,4',5,6'-hexachlorobiphenyl	74472-41-6
44	2,2',3,5'-tetrachlorobiphenyl	41464-39-5	149	2,2',3,4',5',6-hexachlorobiphenyl	38380-04-0
45	2,2',3,6-tetrachlorobiphenyl	70362-45-7	150	2,2',3,4',6,6'-hexachlorobiphenyl	68194-08-1
46	2,2',3,6'-tetrachlorobiphenyl	41464-47-5	151	2,2',3,5,5',6-hexachlorobiphenyl	52663-63-5
47	2,2',4,4'-tetrachlorobiphenyl	2437-79-8	152	2,2',3,5,6,6'-hexachlorobiphenyl	68194-09-2
48	2,2',4,5-tetrachlorobiphenyl	70362-47-9	153	2,2',4,4',5,5'-hexachlorobiphenyl	35065-27-1
49	2,2',4,5'-tetrachlorobiphenyl	41464-40-8	154	2,2',4,4',5,6'-hexachlorobiphenyl	60145-22-4
50	2,2',4,6-tetrachlorobiphenyl	62796-65-0	155	2,2',4,4',6,6'-hexachlorobiphenyl	33979-03-2
51	2,2',4,6'-tetrachlorobiphenyl	68194-04-7	156	2,3,3',4,4',5-hexachlorobiphenyl	38380-08-4
52	2,2',5,5'-tetrachlorobiphenyl	35693-99-3	157	2,3,3',4,4',5'-hexachlorobiphenyl	69782-90-7
53	2,2',5,6'-tetrachlorobiphenyl	41464-41-9	158	2,3,3',4,4',6-hexachlorobiphenyl	74472-42-7
54	2,2',6,6'-tetrachlorobiphenyl	15968-05-5	159	2,3,3',4,5,5'-hexachlorobiphenyl	39635-35-3
55	2,3,3',4-tetrachlorobiphenyl	74338-24-2	160	2,3,3',4,5,6-hexachlorobiphenyl	41411-62-5
56	2,3,3',4'-tetrachlorobiphenyl	41464-43-1	161	2,3,3',4,5',6-hexachlorobiphenyl	74472-43-8
57	2,3,3',5-tetrachlorobiphenyl	70424-67-8	162	2,3,3',4',5,5'-hexachlorobiphenyl	39635-34-2
58	2,3,3',5'-tetrachlorobiphenyl	41464-49-7	163	2,3,3',4',5,6-hexachlorobiphenyl	74472-44-9
59	2,3,3',6-tetrachlorobiphenyl	74472-33-6	164	2,3,3',4',5',6-hexachlorobiphenyl	74472-45-0
60	2,3,4,4'-tetrachlorobiphenyl	33025-41-1	165	2,3,3',5,5',6-hexachlorobiphenyl	74472-46-1
61	2,3,4,5-tetrachlorobiphenyl	33284-53-6	166	2,3,4,4',5,6-hexachlorobiphenyl	41411-63-6
62	2,3,4,6-tetrachlorobiphenyl	54230-22-7	167	2,3',4,4',5,5'-hexachlorobiphenyl	52663-72-6
63	2,3,4',5-tetrachlorobiphenyl	74472-34-7	168	2,3',4,4',5',6-hexachlorobiphenyl	59291-65-5
64	2,3,4',6-tetrachlorobiphenyl	52663-58-8	169	3,3',4,4',5,5'-hexachlorobiphenyl	32774-16-6
65	2,3,5,6-tetrachlorobiphenyl	33284-54-7	170	2,2',3,3',4,4',5-heptachlorobiphenyl	35065-30-6
66	2,3',4,4'-tetrachlorobiphenyl	32598-10-0	171	2,2',3,3',4,4',6-heptachlorobiphenyl	52663-71-5
67	2,3',4,5-tetrachlorobiphenyl	73575-53-8	172	2,2',3,3',4,5,5'-heptachlorobiphenyl	52663-74-8
68	2,3',4,5'-tetrachlorobiphenyl	73575-52-7	173	2,2',3,3',4,5,6-heptachlorobiphenyl	68194-16-1
69	2,3',4,6-tetrachlorobiphenyl	60233-24-1	174	2,2',3,3',4,5,6'-heptachlorobiphenyl	38411-25-5
70	2,3',4',5-tetrachlorobiphenyl	32598-11-1	175	2,2',3,3',4,5',6-heptachlorobiphenyl	40186-70-7
71	2,3',4',6-tetrachlorobiphenyl	41464-46-4	176	2,2',3,3',4,6,6'-heptachlorobiphenyl	52663-65-7
72	2,3',5,5'-tetrachlorobiphenyl	41464-42-0	177	2,2',3,3',4',5,6-heptachlorobiphenyl (2,2',3,3',4,5',6'-heptachlorobiphenyl)	52663-70-4
73	2,3',5',6-tetrachlorobiphenyl	74338-23-1	178	2,2',3,3',5,5',6-heptachlorobiphenyl	52663-67-9
74	2,4,4',5-tetrachlorobiphenyl	32690-93-0	179	2,2',3,3',5,6,6'-heptachlorobiphenyl	52663-64-6

PROJECT NARRATIVE
H0B020462

Table 2

PCB Shorthand Nomenclature Used in this Report

BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number	BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number
75	2,4,4',6-tetrachlorobiphenyl	32598-12-2	180	2,2',3,4,4',5,5'-heptachlorobiphenyl	35065-29-3
76	2',3,4,5-tetrachlorobiphenyl (2,3',4',5'-tetrachlorobiphenyl)	70362-48-0	181	2,2',3,4,4',5,6-heptachlorobiphenyl	74472-47-2
77	3,3',4,4'-tetrachlorobiphenyl	32598-13-3	182	2,2',3,4,4',5,6'-heptachlorobiphenyl	60145-23-5
78	3,3',4,5-tetrachlorobiphenyl	70362-49-1	183	2,2',3,4,4',5',6-heptachlorobiphenyl	52663-69-1
79	3,3',4,5'-tetrachlorobiphenyl	41464-48-6	184	2,2',3,4,4',6,6'-heptachlorobiphenyl	74472-48-3
80	3,3',5,5'-tetrachlorobiphenyl	33284-52-5	185	2,2',3,4,5,5',6-heptachlorobiphenyl	52712-05-7
81	3,4,4',5-tetrachlorobiphenyl	70362-50-4	186	2,2',3,4,5,6,6'-heptachlorobiphenyl	74472-49-4
82	2,2',3,3',4-pentachlorobiphenyl	52663-62-4	187	2,2',3,4',5,5',6-heptachlorobiphenyl	52663-68-0
83	2,2',3,3',5-pentachlorobiphenyl	60145-20-2	188	2,2',3,4',5,6,6'-heptachlorobiphenyl	74487-85-7
84	2,2',3,3',6-pentachlorobiphenyl	52663-60-2	189	2,3,3',4,4',5,5'-heptachlorobiphenyl	39635-31-9
85	2,2',3,4,4'-pentachlorobiphenyl	65510-45-4	190	2,3,3',4,4',5,6-heptachlorobiphenyl	41411-64-7
86	2,2',3,4,5-pentachlorobiphenyl	55312-69-1	191	2,3,3',4,4',5',6-heptachlorobiphenyl	74472-50-7
87	2,2',3,4,5'-pentachlorobiphenyl	38380-02-8	192	2,3,3',4,5,5',6-heptachlorobiphenyl	74472-51-8
88	2,2',3,4,6-pentachlorobiphenyl	55215-17-3	193	2,3,3',4',5,5',6-heptachlorobiphenyl	69782-91-8
89	2,2',3,4,6'-pentachlorobiphenyl	73575-57-2	194	2,2',3,3',4,4',5,5'-octachlorobiphenyl	35694-08-7
90	2,2',3,4',5-pentachlorobiphenyl	68194-07-0	195	2,2',3,3',4,4',5,6-octachlorobiphenyl	52663-78-2
91	2,2',3,4',6-pentachlorobiphenyl	68194-05-8	196	2,2',3,3',4,4',5,6'-octachlorobiphenyl	42740-50-1
92	2,2',3,5,5'-pentachlorobiphenyl	52663-61-3	197	2,2',3,3',4,4',6,6'-octachlorobiphenyl	33091-17-7
93	2,2',3,5,6-pentachlorobiphenyl	73575-56-1	198	2,2',3,3',4,5,5',6-octachlorobiphenyl	68194-17-2
94	2,2',3,5,6'-pentachlorobiphenyl	73575-55-0	199/200	2,2',3,3',4,5,6,6'-octachlorobiphenyl	52663-73-7
95	2,2',3,5',6-pentachlorobiphenyl	38379-99-6	200/201	2,2',3,3',4,5',6,6'-octachlorobiphenyl	40186-71-8
96	2,2',3,6,6'-pentachlorobiphenyl	73575-54-9	201/199	2,2',3,3',4,5,5',6'-octachlorobiphenyl	52663-75-9
97	2,2',3',4,5-pentachlorobiphenyl (2,2',3,4',5'-pentachlorobiphenyl)	41464-51-1	202	2,2',3,3',5,5',6,6'-octachlorobiphenyl	2136-99-4
98	2,2',3',4,6-pentachlorobiphenyl (2,2',3,4',6'-pentachlorobiphenyl)	60233-25-2	203	2,2',3,4,4',5,5',6-octachlorobiphenyl	52663-76-0
99	2,2',4,4',5-pentachlorobiphenyl	38380-01-7	204	2,2',3,4,4',5,6,6'-octachlorobiphenyl	74472-52-9
100	2,2',4,4',6-pentachlorobiphenyl	39485-83-1	205	2,3,3',4,4',5,5',6-octachlorobiphenyl	74472-53-0
101	2,2',4,5,5'-pentachlorobiphenyl	37680-73-2	206	2,2',3,3',4,4',5,5',6-nonachlorobiphenyl	40186-72-9
102	2,2',4,5,6-pentachlorobiphenyl	68194-06-9	207	2,2',3,3',4,4',5,6,6'-nonachlorobiphenyl	52663-79-3
103	2,2',4,5',6-pentachlorobiphenyl	60145-21-3	208	2,2',3,3',4,5,5',6,6'-nonachlorobiphenyl	52663-77-1
104	2,2',4,6,6'-pentachlorobiphenyl	56558-16-8	209	2,2',3,3',4,4',5,5',6,6'-decachlorobiphenyl	2051-24-3
105	2,3,3',4,4'-pentachlorobiphenyl	32598-14-4			

1. The BZ number is from Ballschmiter and Zell (1980). The IUPAC number, when different from the BZ, follows the recommended changes to the BZ number per Schulte and Malisch (1983) and Guitart et al. (1993).

2. The chemical structure names are from Ballschmiter and Zell (1980). IUPAC nomenclature structure names are listed in parenthesis when different from the BZ name (source CAS Registry).

3. Chemical Abstract Service Registry number (source CAS Registry and 1668A Table 1).

C.L.S.
Center for Laboratory Sciences

HOB02062

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Request for Laboratory Analytical Services
Chain of Custody

CC06004 Rev. 02

Lab Use Only
Purchase Order No.: W00495 | Client Job No.:
Project No.: | Client No:
Date Logged In: | Logged In By:

Report Results To
Name:
Company: RJ Lee Group
Address: 2710 N. 20th Ave
City, State, Zip: Pasco, WA 99301
Phone: ( ) 509-545-4989 Fax: ( ) 509-544-6010
Call with Verbal Results:
Email Results To:
Fax Results To:

Send Invoice To
Name: Same
Company: Email:
Address:
City, State, Zip:
Phone: ( ) Fax: ( )

Special Instructions

Turnaround Request
(If Left Blank, A Standard TA is Assumed; Please Do Not Use Vague Terms Like ASAP)
Standard: Yes ? No ? If 'No,' No. of Business Days:

Drinking Water Sample Only
Sample Purpose: Information ☐ Regulatory ☐
System ID No.:
DOH Source No.:
Multiple Sources Nos.:
Sample Purpose: A ? B ? Other ?

Chemistry Analysis Key
Preservation: Unpres, 4°C, HNO_3, Other, H_2SO_4, HCl, NaOH, Na_2SO_4
Matrix: WW=Wastewater, GW=Groudwater, S=Soil/Sludge, E=Extract, SW=Surface Water, DW=Drinking Water, O=Oil, X=Other
Container: P=Plastic, G=Glass, W=Wipe, A=Air (filter or tube)

Analysis Requested

Sample Identification	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	TPH Diesel								Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
WA210420090001-001	Soil				6.5494	✓	1 COOLER RECD @ 2°C									S	G		
WA210420090001-001 ms	Soil				6.5881	✓	FEDEX #7983 4777 9063									S	G		
WA210420090001-001 ms	Soil				6.7236	✓	RECEIVED BY LAB									S	G		
WA020620090002-001	Soil				7.6124	✓	2/2/10									S	G		
WA020620090002-002	Soil				7.7548	✓										S	G		
WA020620090002-002 mD	Soil				7.4557	✓										S	G		
WA020620090002-002 ms	Soil				7.6925	✓										S	G		
WA110620090003-001	Soil				7.5903	✓										S	G		
WA110620090003-002	Soil				7.3601	✓										S	G		
WA110620090003-002 mD	Soil				7.5058	✓										S	G		
WA110620090003-002 ms	Soil				7.5011	✓										S	G		
WA220620090005-001	Soil				7.7340	✓										S	G		

Chain of Custody
Relinquished By (Signature): Jonathan Kun Date: 01/29/10 Time: 13:15
Relinquished By (Print Name): JONATHAN KUN Relinquished To:
Company Name: CLS Method of Shipment: FEDEX

Chain of Custody
Received By (Signature): Teri Smith Date: 2/2/10 Time: 9:00AM
Received By (Print Name): TERI SMITH Relinquished To:
Company Name: Method of Shipment:

Chain of Custody
Relinquished By (Signature): Date: Time:
Relinquished By (Print Name): Relinquished To:
Company Name: Method of Shipment:

Chain of Custody
Received By (Signature): Date: Time:
Received By (Print Name): Relinquished To:
Company Name: Method of Shipment:

Questions?
Contact Client Services:
(724) 387-1833

350 Hochberg Road
Monroeville, PA 15146
Tel: (724) 325-1776
Fax: (724) 733-1799

530 McCormick Street
San Leandro, CA 94577
Tel: (510) 567-0480
Fax: (510) 567-0488

10503 Battleview Parkway
Manassas, VA 20109
Tel: (703) 368-7880
Fax: (703) 368-7761

2710 North 20th Avenue
Pasco, WA 99301
Tel: (509) 545-4989
Fax: (509) 544-6010

C.L.S.
Center for Laboratory Sciences

H0B020462

RJ LeeGroup, Inc.
Center for Laboratory Sciences
2710 North 20th Avenue, Pasco, WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Request for Laboratory Analytical Services
Chain of Custody

CC06004 Rev. 02

Lab Use Only	Purchase Order No.:	Client Job No.:
	Project No.:	Client No:
	Date Logged In:	Logged In By:
Report Results To	Name:	
	Company: RJ Lee Group	
	Address: 2710 N. 20th Ave	
	City, State, Zip: Pasco, WA 99301	
	Phone: ( ) 509-545-4989	Fax: ( ) 509-~~545-49~~ 544-6010
	Call with Verbal Results:	
	Email Results To:	
	Fax Results To:	
Send Invoice To	Name: Same	
	Company:	Email:
	Address:	
	City, State, Zip:	
	Phone: ( )	Fax: ( )
Special Instructions		

Turnaround Request — *(If Left Blank, A Standard TA is Assumed; Please Do Not Use Vague Terms Like ASAP)*
Standard: Yes ? No ? If 'No,' No. of Business Days:

Drinking Water Sample Only
Sample Purpose: Information ☐ Regulatory ☐
System ID No.:
DOH Source No.:
Multiple Sources Nos.:
Sample Purpose: A ? B ? Other ?

Chemistry Analysis Key

Preservation:		Matrix:		Container:
Unpres	H_2SO_4	WW=Wastewater	SW=Surface Water	P=Plastic
4°C	HCl	GW=Groundwater	DW=Drinking Water	G=Glass
HNO_3	NaOH	S=Soil/Sludge	O=Oil	W=Wipe
Other	Na_2SO_4	E=Extract	X=Other	A=Air (filter or tube)

Analysis Requested

Sample Identification	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	PCB Congeners								Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
WA22062009 0005-001 MD	Soil				7.4027		✓									S	G		
WA22062009 0005-001 MS	Soil				7.4002		✓									S	G		
WA22062009 0005-002	Soil				7.6465		✓									S	G		
WA22062009 0005-003	Soil				7.5312		✓									S	G		
WA06082009 0001-001	Water					EPA 1668	✓									WW	G		
WA06082009 0001-002	Water						✓									WW	G		
WA11082009 0010-001	Soil				7.5442		✓									S	G		
WA11082009 0010-002	Soil				7.2721		✓									S	G		
WA11082009 0010-002 MD	Soil				7.4216		✓									S	G		
WA11082009 0010-002 MS	Soil				7.3130		✓									S	G		
WA11082009 0010-003	Soil				7.4327		✓									S	G		
WA11082009 0010-004	Soil				7.4868		✓									S	G		

Chain of Custody	Relinquished By (Signature): [signature]	Date: 01/24/10 Time: 1315
	Relinquished By (Print Name): JONATHAN KUN	Relinquished To:
	Company Name: CLS	Method of Shipment: FED EX
Chain of Custody	Relinquished By (Signature):	Date: Time:
	Relinquished By (Print Name):	Relinquished To:
	Company Name:	Method of Shipment:

Chain of Custody	Received By (Signature): [signature]	Date: 2/2/10 Time: 9:00AM
	Received By (Print Name): TERI SMITH	Relinquished To:
	Company Name:	Method of Shipment:
Chain of Custody	Received By (Signature):	Date: Time:
	Received By (Print Name):	Relinquished To:
	Company Name:	Method of Shipment:

Questions?
Contact Client Services:
(724) 387-1833

350 Hochberg Road
Monroeville, PA 15146
Tel: (724) 325-1776
Fax: (724) 733-1799

530 McCormick Street
San Leandro, CA 94577
Tel: (510) 567-0480
Fax: (510) 567-0488

10503 Battleview Parkway
Manassas, VA 20109
Tel: (703) 368-7880
Fax: (703) 368-7761

2710 North 20th Avenue
Pasco, WA 99301
Tel: (509) 545-4989
Fax: (509) 544-6010

C.L.S.
Center for Laboratory Sciences

HOB020462

RJ LeeGroup, Inc.
Center for Laboratory Sciences
2710 North 20th Avenue, Pasco, WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Request for Laboratory Analytical Services
Chain of Custody

CC06004 Rev. 02

Lab Use Only	Purchase Order No.:	Client Job No.:
	Project No.:	Client No:
	Date Logged In:	Logged In By:
Report Results To	Name:	
	Company: RJ Lee Group	
	Address: 2710 N. 20th Ave.	
	City, State, Zip: Pasco, WA 99301	
	Phone: ( ) 509-545-4989	Fax: ( ) 509-544-6010
	Call with Verbal Results:	
	Email Results To:	
	Fax Results To:	
Send Invoice To	Name: Same	
	Company:	Email:
	Address:	
	City, State, Zip:	
	Phone: ( )	Fax: ( )
Special Instructions		

Turnaround Request — *(If Left Blank, A Standard TA is Assumed; Please Do Not Use Vague Terms Like ASAP)*
Standard: Yes ? No ? If 'No,' No. of Business Days:

Drinking Water Sample Only
Sample Purpose: Information ☐ Regulatory ☐
System ID No.:
DOH Source No.:
Multiple Sources Nos.:
Sample Purpose: A ? B ? Other ?

Chemistry Analysis Key

Preservation:		Matrix:		Container:
Unpres	H_2SO_4	WW=Wastewater	SW=Surface Water	P=Plastic
4°C	HCl	GW=Groudwater	DW=Drinking Water	G=Glass
HNO_3	NaOH	S=Soil/Sludge	O=Oil	W=Wipe
Other	Na_2SO_4	E=Extract	X=Other	A=Air (filter or tube)

Analysis Requested

Sample Identification	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	PCB Congeners								Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
WA1108200900 10-005	Soil				7.3853		✓									S	G		
WA1808200900 11-001	Soil				7.2365		✓									S	G		
WA1808200900 11-002	Soil				7.1707		✓									S	G		
WA1808200900 11-003	Soil				7.6225	EPA	✓									S	G		
WA1808200900 11-004	Soil				7.3894		✓									S	G		
WA1808200900 11-005	Soil				7.4605		✓									S	G		
WA1808200900 11-005 MD	Soil				7.4352		✓									S	G		
WA1808200900 11-005 MS	Soil				7.3062		✓		HAS NOT BEEN SPIKED							S	G		
						1668													

Chain of Custody	Relinquished By (Signature): [signature]	Date: 01/29/10	Time: 1315
	Relinquished By (Print Name): JONATHAN KUN	Relinquished To:	
	Company Name: CLS	Method of Shipment: FED EX	
Chain of Custody	Relinquished By (Signature):	Date:	Time:
	Relinquished By (Print Name):	Relinquished To:	
	Company Name:	Method of Shipment:	

Chain of Custody	Received By (Signature): [signature]	Date: 2/2/10	Time: 9:00AM
	Received By (Print Name): TERI SMITH	Relinquished To:	
	Company Name:	Method of Shipment:	
Chain of Custody	Received By (Signature):	Date:	Time:
	Received By (Print Name):	Relinquished To:	
	Company Name:	Method of Shipment:	

C.L.S.
Center for Laboratory Sciences

1-10B120462

RJ Lee*Group*, Inc.
Center for Laboratory Sciences
2710 North 20th Avenue, Pasco, WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Request for Laboratory Analytical Services
Chain of Custody

CC06004 Rev. 02

Lab Use Only
Purchase Order No.:
Client Job No.:
Project No.:
Client No:
Date Logged In:
Logged In By:

Turnaround Request
(If Left Blank, A Standard TA is Assumed; Please Do Not Use Vague Terms Like ASAP)
Standard: Yes ? No ? If 'No,' No. of Business Days:

Report Results To
Name:
Company: RJ Lee Group
Address: 2710 N. 20th Ave.
City, State, Zip: PASCO, WA 99301
Phone: ( ) 509-545-4989 Fax: ( ) 509-544-6010
Call with Verbal Results:
Email Results To:
Fax Results To:

Drinking Water Sample Only
Sample Purpose: Information ☐ Regulatory ☐
System ID No.:
DOH Source No.:
Multiple Sources Nos.:
Sample Purpose: A ? B ? Other ?

Chemistry Analysis Key
Preservation: Unpres, 4°C, HNO$_3$, Other, H_2SO_4, HCl, NaOH, Na_2SO_4
Matrix: WW=Wastewater, GW=Groundwater, S=Soil/Sludge, E=Extract, SW=Surface Water, DW=Drinking Water, O=Oil, X=Other
Container: P=Plastic, G=Glass, W=Wipe, A=Air (filter or tube)

Send Invoice To
Name: Same
Company:
Email:
Address:
City, State, Zip:
Phone: ( ) Fax: ( )

Special Instructions

Analysis Requested: PCB Congeners by EPA Method 1668

Sample Identification	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	PCB Congeners by EPA Method 1668	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
WA06012010000 1-001	Soil				8.5524	✓			S	G		
WA06012010000 1-002	Soil				7.5837	✓			S	G		
WA06012010000 1-003	Soil				7.5631	✓			S	G		
WA06012010000 1-003 MS	Soil				7.5419	✓			S	G		
WA06012010000 1-003 MS	Soil				7.6196	✓	Has Not Been Spiked		S	G		

Chain of Custody
Relinquished By (Signature): Jonathan Ruel
Date: 01/29/10 Time: 1315
Relinquished By (Print Name): JONATHAN RUEL
Relinquished To:
Company Name: CLS
Method of Shipment: FEDEX

Chain of Custody
Received By (Signature): Teri Smith
Date: 2/2/10 Time: 9:00AM
Received By (Print Name): TERI SMITH
Relinquished To:
Company Name:
Method of Shipment:

Chain of Custody
Relinquished By (Signature):
Date: Time:
Relinquished By (Print Name):
Relinquished To:
Company Name:
Method of Shipment:

Chain of Custody
Received By (Signature):
Date: Time:
Received By (Print Name):
Relinquished To:
Company Name:
Method of Shipment:

Questions?
Contact Client Services:
(724) 387-1833

350 Hochberg Road
Monroeville, PA 15146
Tel: (724) 325-1776
Fax: (724) 733-1799

530 McCormick Street
San Leandro, CA 94577
Tel: (510) 567-0480
Fax: (510) 567-0488

10503 Battleview Parkway
Manassas, VA 20109
Tel: (703) 368-7880
Fax: (703) 368-7761

2710 North 20th Avenue
Pasco, WA 99301
Tel: (509) 545-4989
Fax: (509) 544-6010

C.L.S.
Center for Laboratory Sciences

RJ Lee*Group*, Inc.
Center for Laboratory Sciences
2710 North 20th Avenue, Pasco, WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Request for Laboratory Analytical Services
Chain of Custody

CC06004 Rev. 02

Lab Use Only
Purchase Order No.: W0049 5 | Client Job No.:
Project No.: | Client No:
Date Logged In: | Logged In By:

Report Results To
Name:
Company: RJ Lee Group
Address: 2710 N. 20th Ave
City, State, Zip: Pasco, WA 99301
Phone: ( ) 509-545-4989 Fax: ( ) 509-544-6010
Call with Verbal Results:
Email Results To:
Fax Results To:

Send Invoice To
Name: Same
Company: Email:
Address:
City, State, Zip:
Phone: ( ) Fax: ( )

Special Instructions

Turnaround Request (If Left Blank, A Standard TAT Is Assumed; Please Do Not Use Vague Terms Like ASAP)
Standard: Yes ? No ? If 'No,' No. of Business Days:

Drinking Water Sample Only
Sample Purpose: Information ☐ Regulatory ☐
System ID No.:
DOH Source No.:
Multiple Sources Nos.:
Sample Purpose: A ? B ? Other ?

Chemistry Analysis Key
Preservation: Unpres, 4°C, HNO$_3$, Other, H$_2$SO$_4$, HCl, NaOH, Na$_2$SO$_4$
Matrix: WW=Wastewater, GW=Groundwater, S=Soil/Sludge, E=Extract, SW=Surface Water, DW=Drinking Water, O=Oil, X=Other
Container: P=Plastic, G=Glass, W=Wipe, A=Air (filter or tube)

Sample Identification	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	Analysis Requested: EPA 3545/8082	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
WA210420090001-001	Soil	04/14/09			6.5494	✓			S	G		
WA210420090001-001 MD	Soil	04/14/09			6.5881	✓			S	G		
WA210420090001-001 MS	Soil	04/14/09			6.7236	✓			S	G		
WA020620090002-001	Soil	5/21/09			7.6124	✓			S	G		
WA020620090002-002	Soil	05/21/09			7.7548	✓			S	G		
WA020620090002-003 MD	Soil	↓			7.4557	✓			S	G		
WA020620090002-003 MS	Soil	↓			7.6925	✓			S	G		
WA110620090003-001	Soil	06/03/09			7.5903	✓			S	G		
WA110620090003-002	Soil	06/03/09			7.3601	✓			S	G		
WA110620090003-002 MD	Soil	↓			7.5058	✓			S	G		
WA110620090003-002 MS	Soil	↓			7.5011	✓			S	G		
WA220620090005-001	Soil	06/11/09			7.7340	✓			S	G		

Chain of Custody
Relinquished By (Signature): [signature] Date: 6/29/10 Time: 13:15
Relinquished By (Print Name): [illegible] Relinquished To:
Company Name: CLS Method of Shipment: FEDEX

Chain of Custody
Relinquished By (Signature): Date: Time:
Relinquished By (Print Name): Relinquished To:
Company Name: Method of Shipment:

Chain of Custody
Received By (Signature): Date: Time:
Received By (Print Name): Relinquished To:
Company Name: Method of Shipment:

Chain of Custody
Received By (Signature): Date: Time:
Received By (Print Name): Relinquished To:
Company Name: Method of Shipment:

C.L.S.
Center for Laboratory Sciences

RJ LeeGroup, Inc.
Center for Laboratory Sciences
2710 North 20th Avenue, Pasco, WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Request for Laboratory Analytical Services
Chain of Custody

CC06004 Rev. 02

Lab Use Only
Purchase Order No.: [illegible] 95 | Client Job No.:
Project No.: | Client No:
Date Logged In: | Logged In By:

Report Results To
Name:
Company: RJ Lee Group
Address: 2710 N. 20th Ave
City, State, Zip: Pasco, WA 99301
Phone: ( ) 509-545-4989 Fax: ( ) 509-~~545-49~~ 544-6010
Call with Verbal Results:
Email Results To:
Fax Results To:

Send Invoice To
Name: Same
Company: Email:
Address:
City, State, Zip:
Phone: ( ) Fax: ( )

Special Instructions

Turnaround Request
(If Left Blank, A Standard TA is Assumed; Please Do Not Use Vague Terms Like ASAP)
Standard: Yes ? No ? If 'No,' No. of Business Days:

Drinking Water Sample Only
Sample Purpose: Information ☐ Regulatory ☐
System ID No.:
DOH Source No.:
Multiple Sources Nos.:
Sample Purpose: A ? B ? Other ?

Chemistry Analysis Key
Preservation: Unpres, 4°C, HNO$_3$, Other, H_2SO_4, HCl, NaOH, Na_2SO_4
Matrix: WW=Wastewater, GW=Groundwater, S=Soil/Sludge, E=Extract, SW=Surface Water, DW=Drinking Water, O=Oil, X=Other
Container: P=Plastic, G=Glass, W=Wipe, A=Air (filter or tube)

Analysis Requested: PCB Congeners by EPA Method 1668

Sample Identification	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	PCB Congeners by EPA Method 1668	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
WA22062009 0005-001 ms	Soil	06/15/09			7.4027	✓			S	G		
WA22062009 0005-001 ms	Soil	↓			7.4002	✓			S	G		
WA22062009 0005-002	Soil				7.6965	✓			S	G		
WA22062009 0005-003	Soil	↓			7.5312	✓			S	G		
WA0608 2009 0001-001	Water	08/03/09				✓			WW	G		
WA0608 2009 0001-002	Water	↓				✓			WW	G		
WA1082 2009 0010-001	Soil	07/30/09			7.5442	✓			S	G		
WA1082 2009 0010-002	Soil	↓			7.2721	✓			S	G		
WA1082 2009 0010-002 ms	Soil				7.4216	✓			S	G		
WA1082 2009 0010-002 ms	Soil				7.3130	✓			S	G		
WA1082 2009 0010-003	Soil				7.4377	✓			S	G		
WA1082 2009 0010-004	Soil	↓			7.4868	✓			S	G		

Chain of Custody
Relinquished By (Signature): [signature]
Relinquished By (Print Name): Jonathan Kerr
Company Name: CLS
Date: 01/29/10 Time: 1315
Relinquished To:
Method of Shipment: FED EX

Chain of Custody
Received By (Signature):
Received By (Print Name):
Company Name:
Date: Time:
Relinquished To:
Method of Shipment:

Chain of Custody
Relinquished By (Signature):
Relinquished By (Print Name):
Company Name:
Date: Time:
Relinquished To:
Method of Shipment:

Chain of Custody
Received By (Signature):
Received By (Print Name):
Company Name:
Date: Time:
Relinquished To:
Method of Shipment:

C.L.S.
Center for Laboratory Sciences

RJ LeeGroup, Inc.
Center for Laboratory Sciences
2710 North 20th Avenue, Pasco, WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Request for Laboratory Analytical Services
Chain of Custody

CC06004 Rev. 02

Lab Use Only
Purchase Order No.:
Client Job No.:
Project No.:
Client No:
Date Logged In:
Logged In By:

Report Results To
Name:
Company: RJ Lee Group
Address: 2710 N. 20th Ave.
City, State, Zip: Pasco, WA 99301
Phone: ( ) 509-545-4989 Fax: ( ) 509-544-6010
Call with Verbal Results:
Email Results To:
Fax Results To:

Send Invoice To
Name: Same
Company:
Email:
Address:
City, State, Zip:
Phone: ( ) Fax: ( )

Special Instructions

Turnaround Request
(If Left Blank, A Standard TA Is Assumed; Please Do Not Use Vague Terms Like ASAP)
Standard: Yes ? No ? If 'No,' No. of Business Days:

Drinking Water Sample Only
Sample Purpose: Information ☐ Regulatory ☐
System ID No.:
DOH Source No.:
Multiple Sources Nos.:
Sample Purpose: A ? B ? Other ?

Chemistry Analysis Key
Preservation: Unpres, 4°C, HNO_3, Other, H_2SO_4, HCl, NaOH, Na_2SO_4
Matrix: WW=Wastewater, GW=Groundwater, S=Soil/Sludge, E=Extract, SW=Surface Water, DW=Drinking Water, O=Oil, X=Other
Container: P=Plastic, G=Glass, W=Wipe, A=Air (filter or tube)

Analysis Requested

Sample Identification	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	PCB Congeners EPA 1668	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
WA1082009001O-005	Soil	08/30/09			7.3853	✓			S	G		
WA1082009001I-001	Soil	08/11/09			7.2365	✓			S	G		
WA1082009001I-002	Soil	↓			7.1707	✓			S	G		
WA1082009001I-003	Soil	↓			7.6225	✓			S	G		
WA1082009001I-004	Soil	08/10/09			7.3894	✓			S	G		
WA1082009001I-005	Soil	↓			7.4605	✓			S	G		
WA1082009001I-005 MS	Soil	↓			7.4352	✓			S	G		
WA1082009001I-005 MSD	Soil	↓			7.3062	✓	Has Not Been Spiked		S	G		

Chain of Custody
Relinquished By (Signature): [signature]
Relinquished By (Print Name): Jonathan Kuo
Company Name: CLS
Date: 01/29/10 Time: 1315
Relinquished To:
Method of Shipment: FED EX

Chain of Custody
Relinquished By (Signature):
Relinquished By (Print Name):
Company Name:
Date: Time:
Relinquished To:
Method of Shipment:

Chain of Custody
Received By (Signature):
Received By (Print Name):
Company Name:
Date: Time:
Relinquished To:
Method of Shipment:

Chain of Custody
Received By (Signature):
Received By (Print Name):
Company Name:
Date: Time:
Relinquished To:
Method of Shipment:

C.L.S.
Center for Laboratory Sciences

RJ LeeGroup, Inc.
Center for Laboratory Sciences
2710 North 20th Avenue, Pasco, WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

Request for Laboratory Analytical Services
Chain of Custody

CC06004 Rev. 02

Lab Use Only
Purchase Order No.: | Client Job No.:
Project No.: | Client No:
Date Logged In: | Logged In By:

Report Results To
Name:
Company: RJ Lee Group
Address: 2710 N. 20th Ave.
City, State, Zip: PASCO, WA 99301
Phone: ( ) 509-545-4989 Fax: ( ) 509-544-6010
Call with Verbal Results:
Email Results To:
Fax Results To:

Send Invoice To
Name: Same
Company: Email:
Address:
City, State, Zip:
Phone: ( ) Fax: ( )

Special Instructions

Turnaround Request
(If Left Blank, A Standard TA is Assumed; Please Do Not Use Vague Terms Like ASAP)
Standard: Yes ? No ? If 'No,' No. of Business Days:

Drinking Water Sample Only
Sample Purpose: Information ☐ Regulatory ☐
System ID No.:
DOH Source No.:
Multiple Sources Nos.:
Sample Purpose: A ? B ? Other ?

Chemistry Analysis Key
Preservation: Unpres, 4°C, HNO_3, Other, H_2SO_4, HCl, NaOH, Na_2SO_4
Matrix: WW=Wastewater, GW=Groundwater, S=Soil/Sludge, E=Extract, SW=Surface Water, DW=Drinking Water, O=Oil, X=Other
Container: P=Plastic, G=Glass, W=Wipe, A=Air (filter or tube)

Analysis Requested: PCB Congeners by EPA Method 1668

Sample Identification	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	PCB Congeners by EPA Method 1668	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
WA06012010000 1-001	Soil	12/29/09			8.5524	✓			S	G		
WA06012010000 1-002	Soil	↓			7.5837	✓			S	G		
WA06012010000 1-003	Soil	12/30/09			7.5631	✓			S	G		
WA06012010000 1-003 MD	Soil	↓			7.5419	✓			S	G		
WA06012010000 1-003 MS	Soil	↓			7.6196	✓	Has Not Been Spiked		S	G		

Chain of Custody
Relinquished By (Signature): [signature] Date: 01/09/10 Time: 1315
Relinquished By (Print Name): JOHN ALLEN KUNZ Relinquished To:
Company Name: CCS Method of Shipment: FEDEX

Chain of Custody
Relinquished By (Signature): Date: Time:
Relinquished By (Print Name): Relinquished To:
Company Name: Method of Shipment:

Chain of Custody
Received By (Signature): Date: Time:
Received By (Print Name): Relinquished To:
Company Name: Method of Shipment:

Chain of Custody
Received By (Signature): Date: Time:
Received By (Print Name): Relinquished To:
Company Name: Method of Shipment:

Appendix 5

Data Validation Supporting Documentation

GC/MS ORGANIC DATA VALIDATION CHECKLIST

VALIDATION LEVEL:	A	B	C	D	E
PROJECT: WMA C			DATA PACKAGE: VSR10-024		
VALIDATOR: Carl Schloesslin		LAB: TestAmerica		DATE: 9-13-2010	
			SDG: H0B020462		
ANALYSES PERFORMED					
SW-846 8260		SW-846 8260 (TCLP)	SW-846 8270	SW-846 1668A X	SW-846 8270 (TCLP)

SAMPLES/MATRIX

Soil samples WA210420090001-001, WA020620090002-001, WA020620090002-002, WA110620090003-001, WA110620090003-002, WA220620090005-001, WA220620090005-002, WA220620090005-003, WA110820090010-001, WA110820090010-002, WA110820090010-003, WA110820090010-004, WA110820090010-005, WA180820090011-001, WA180820090011-002, WA180820090011-003, WA180820090011-004, WA180820090011-005, WA060120100001-001, WA060120100001-002, WA060120100001-003

Water samples WA060820090001-001, WA060820090001-002

1. DATA PACKAGE COMPLETENESS AND CASE NARRATIVE

Technical verification documentation present? ..... Yes (No) N/A

Comments: None

2. INSTRUMENT TUNING AND CALIBRATION (Levels D and E)

GC/MS tuning/performance check acceptable? ..... Yes No (N/A)

Initial calibrations acceptable? ..... Yes No (N/A)

Continuing calibrations acceptable? ..... Yes No (N/A)

Standards traceable? ..... Yes No (N/A)

Standards expired? ..... Yes No (N/A)

Calculation check acceptable? ..... Yes No (N/A)

Comments:

GC/MS ORGANIC DATA VALIDATION CHECKLIST

3. BLANKS (Levels B, C, D, and E)

Calibration blanks analyzed? (Levels D, E) ..... Yes No N/A

Calibration blank results acceptable? (Levels D, E) ..... Yes No N/A

Laboratory blanks analyzed? ..... Yes No N/A

Laboratory blank results acceptable? ..... Yes No N/A

Field/trip blanks analyzed? (Levels C, D, E) ..... Yes No N/A

Field/trip blank results acceptable? (Levels C, D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments:

Batch 34108 MB detections (ng/g): PCB 11 (0.00285), PCB 20 (0.000997), PCB 21 (0.000623), PCB 22 (0.000446), PCB 28 (0.000997), PCB 31 (0.000810), PCB 33 (0.000623), PCB 44 (0.00102), PCB 47 (0.00102), PCB 61 (0.000909), PCB 65 (0.00102), PCB 66 (0.000441), PCB 70 (0.000909), PCB 74 (0.000909), PCB 76 (0.000909)

See additional comments sheet for more blank infractions.

4. ACCURACY (Levels C, D, and E)

Surrogates/system monitoring compounds analyzed? ..... Yes No N/A

Surrogate/system monitoring compound recoveries acceptable? ..... Yes No N/A

Surrogates traceable? (Levels D, E) ..... Yes No N/A

Surrogates expired? (Levels D, E) ..... Yes No N/A

MS/MSD samples analyzed? ..... Yes No N/A

MS/MSD results acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards? (Levels D, E) ..... Yes No N/A

LCS/BSS samples analyzed? ..... Yes No N/A

LCS/BSS results acceptable? ..... Yes No N/A

Standards traceable? (Levels D, E) ..... Yes No N/A

Standards expired? (Levels D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Performance audit sample(s) analyzed? ..... Yes No N/A

Performance audit sample results acceptable? ..... Yes No N/A

Comments:

MS/MSD samples not required.

GC/MS ORGANIC DATA VALIDATION CHECKLIST

5. PRECISION (Levels C, D, and E)

MS/MSD samples analyzed? ..... Yes No N/A

MS/MSD RPD values acceptable? ..... Yes No N/A

MS/MSD standards NIST traceable? (Levels D, E) ..... Yes No N/A

MS/MSD standards expired? (Levels D, E) ..... Yes No N/A

Field duplicate RPD values acceptable? ..... Yes No N/A

Field split RPD values acceptable? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments: None

6. SYSTEM PERFORMANCE (Levels D and E)

Internal standards analyzed? ..... Yes No N/A

Iinternal standard areas acceptable? ..... Yes No N/A

Internal standard retention times acceptable? ..... Yes No N/A

Standards traceable? ..... Yes No N/A

Standards expired? ..... Yes No N/A

Transcription/calculation errors? ..... Yes No N/A

Comments:

7. HOLDING TIMES (all levels)

Samples properly preserved? ..... Yes No N/A

Sample holding times acceptable? ..... Yes No N/A

Comments: None

GC/MS ORGANIC DATA VALIDATION CHECKLIST

8. COMPOUND IDENTIFICATION, QUANTITATION, AND DETECTION LIMITS (all levels)

Compound identification acceptable? (Levels D, E) ..... Yes No N/A

Compound quantitation acceptable? (Levels D, E) ..... Yes No N/A

Results reported for all requested analyses? ..... Yes No N/A

Results supported in the raw data? (Levels D, E) ..... Yes No N/A

Samples properly prepared? (Levels D, E) ..... Yes No N/A

Laboratory properly identified and coded all TIC? (Levels D, E) ..... Yes No N/A

Detection limits meet RDL? ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments:

PCB congener CRDLs not provided in the SAP or SOW.

9. SAMPLE CLEANUP (Levels D and E)

GPC cleanup performed? ..... Yes No N/A

GPC check performed? ..... Yes No N/A

GPC check recoveries acceptable? ..... Yes No N/A

GPC calibration performed? ..... Yes No N/A

GPC calibration check performed? ..... Yes No N/A

GPC calibration check retention times acceptable? ..... Yes No N/A

Check/calibration materials traceable? ..... Yes No N/A

Check/calibration materials Expired? ..... Yes No N/A

Analytical batch QC given similar cleanup? ..... Yes No N/A

Transcription/Calculation Errors? ..... Yes No N/A

Comments:

GC/MS ORGANIC DATA VALIDATION CHECKLIST

Comments (attach additional sheets as necessary):

Additional laboratory blank infractions

Batch 34111 MB detections (ng/g): PCB 11 (0.00251), PCB 20 (0.00104), PCB 21 (0.000850), PCB 28 (0.00104), PCB 31 (0.000695), PCB 33 (0.000850), PCB 44 (0.00171), PCB 47 (0.00171), PCB 65 (0.00171), PCB 129 (0.00307), PCB 138 (0.00307), PCB 153 (0.00170), PCB 160 (0.00307), PCB 163 (0.00307), PCB 168 (0.00170), PCB 170 (0.00580), PCB 174 (0.00199), PCB 180 (0.0104), PCB 183 (0.0010), PCB 185 (0.0010), PCB 193 (0.0104), PCB 194 (0.00252), PCB 206 (0.000825)

Batch 34272 MB detections (ng/L): PCB 1 (0.00208), PCB 4 (0.0183), PCB 8 (0.00462), PCB 11 (0.00683), PCB 15 (0.00554), PCB 16 (0.00780), PCB 17 (0.0123), PCB 18 (0.0299), PCB 19 (0.0108), PCB 20 (0.0475), PCB 21 (0.00232), PCB 22 (0.00956), PCB 26 (0.00162), PCB 27 (0.00331), PCB 28 (0.0475), PCB 29 (0.00162), PCB 30 (0.0299), PCB 31 (0.00455), PCB 32 (0.0205), PCB 33 (0.00232), PCB 37 (0.00262), PCB 44 (0.0130), PCB 45 (0.00514), PCB 47 (0.0130), PCB 49 (0.00623), PCB 50 (0.00333), PCB 51 (0.00514), PCB 52 (0.0101), PCB 53 (0.00333), PCB 61 (0.00420), PCB 64 (0.00349), PCB 65 (0.0130), PCB 66 (0.00275), PCB 69 (0.00623), PCB 70 (0.00420), PCB 74 (0.00420), PCB 76 (0.00420)

Equipment blank WA060820090001-001 detections (ng/L) not qualified as non-detects due to associated lab blank detections: PCB 2 (0.00328), PCB 6 (0.00322), PCB 40 (0.00279), PCB 41 (0.00279), PCB 68 (0.00527), PCB 71 (0.00279), PCB 90 (0.00301), PCB 101 (0.00301), PCB 110 (0.00364), PCB 113 (0.00301), PCB 115 (0.00364), PCB 129 (0.00421), PCB 138 (0.00421), PCB 147 (0.00411), PCB 149 (0.00411), PCB 153 (0.00464), PCB 160 (0.00421), PCB 163 (0.00421), PCB 168 (0.00464), PCB 180 (0.00187), and PCB 193 (0.00187).

Equipment blank WA060820090001-002 detections (ng/L) not qualified as non-detects due to associated lab blank detections: PCB 44 (0.191), PCB 47 (0.191), PCB 65 (0.191), PCB 68 (0.0182), PCB 83 (0.00532), PCB 90 (0.00404), PCB 99 (0.00352), PCB 101 (0.00404), PCB 110 (0.00676), PCB 113 (0.00404), PCB 115 (0.00676), PCB 118 (0.00641), PCB 129 (0.00448), PCB 138 (0.00448), PCB 153 (0.00459), PCB 160 (0.00448), PCB 163 (0.00448) and PCB 168 (0.00459).

Appendix 6

Additional Documentation Requested By Client

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 108B	**Work Order #....:**	LT49A1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	100
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)	ND		0.0100	0.000142	ng/g
PCB 2 (BZ)	ND		0.0100	0.000171	ng/g
PCB 3 (BZ)	ND		0.0100	0.000212	ng/g
PCB 4 (BZ)	ND		0.0200	0.00238	ng/g
PCB 5 (BZ)	ND		0.0100	0.00210	ng/g
PCB 6 (BZ)	ND		0.0100	0.00198	ng/g
PCB 7 (BZ)	ND		0.0100	0.00203	ng/g
PCB 8 (BZ)	**0.00111**	**Q J**	**0.0200**	**0.00194**	**ng/g**
PCB 9 (BZ)	ND		0.0100	0.00204	ng/g
PCB 10 (BZ)	ND		0.0100	0.00220	ng/g
PCB 11 (BZ)	**0.00285**	**Q J**	**0.0200**	**0.00195**	**ng/g**
PCB 12 (BZ)	ND		0.0100	0.00199	ng/g
PCB 13 (BZ)	ND		0.0100	0.00199	ng/g
PCB 14 (BZ)	ND		0.0100	0.00172	ng/g
PCB 15 (BZ)	ND		0.0100	0.00229	ng/g
PCB 16 (BZ)	ND		0.0100	0.000609	ng/g
PCB 17 (BZ)	ND		0.0100	0.000508	ng/g
PCB 18 (BZ)	ND		0.0200	0.000450	ng/g
PCB 19 (BZ)	ND		0.0100	0.000622	ng/g
PCB 20 (BZ)	**0.000997**	**C J**	**0.0200**	**0.000352**	**ng/g**
PCB 21 (BZ)	**0.000623**	**Q C J**	**0.0100**	**0.000353**	**ng/g**
PCB 22 (BZ)	**0.000446**	**Q J**	**0.0100**	**0.000358**	**ng/g**
PCB 23 (BZ)	ND		0.0100	0.000365	ng/g
PCB 24 (BZ)	ND		0.0100	0.000425	ng/g
PCB 25 (BZ)	ND		0.0100	0.000326	ng/g
PCB 26 (BZ)	ND		0.0100	0.000346	ng/g
PCB 27 (BZ)	ND		0.0100	0.000367	ng/g
PCB 28 (BZ)	**0.000997**	**C20 J**	**0.0200**	**0.000352**	**ng/g**
PCB 29 (BZ)	ND		0.0100	0.000346	ng/g
PCB 30 (BZ)	ND		0.0200	0.000450	ng/g
PCB 31 (BZ)	**0.000810**	**J**	**0.0200**	**0.000344**	**ng/g**
PCB 32 (BZ)	ND		0.0100	0.000360	ng/g
PCB 33 (BZ)	**0.000623**	**Q C21 J**	**0.0100**	**0.000353**	**ng/g**
PCB 34 (BZ)	ND		0.0100	0.000360	ng/g
PCB 35 (BZ)	ND		0.0100	0.000370	ng/g
PCB 36 (BZ)	ND		0.0100	0.000357	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H0B030000 - 108B **Work Order #....:** LT49A1AA **Matrix....:** SOLID
Dilution Factor: 1
Prep Date....: 02/03/10 **Analysis Date....:** 02/09/10 **Percent Moisture:** 100
Prep Batch # ....: 0034108
Initial Wgt/Vol : 10 g **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Patricia(Trish) M. Parsly

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)	ND		0.0100	0.000367	ng/g
PCB 38 (BZ)	ND		0.0100	0.000377	ng/g
PCB 39 (BZ)	ND		0.0100	0.000335	ng/g
PCB 40 (BZ)	ND		0.0100	0.000485	ng/g
PCB 41 (BZ)	ND		0.0100	0.000485	ng/g
PCB 42 (BZ)	ND		0.0100	0.000494	ng/g
PCB 43 (BZ)	ND		0.0100	0.000453	ng/g
PCB 44 (BZ)	**0.00102**	**C J**	**0.0100**	**0.000434**	**ng/g**
PCB 45 (BZ)	ND		0.0100	0.000503	ng/g
PCB 46 (BZ)	ND		0.0100	0.000594	ng/g
PCB 47 (BZ)	**0.00102**	**C44 J**	**0.0100**	**0.000434**	**ng/g**
PCB 48 (BZ)	ND		0.0100	0.000481	ng/g
PCB 49 (BZ)	ND		0.0100	0.000400	ng/g
PCB 50 (BZ)	ND		0.0100	0.000467	ng/g
PCB 51 (BZ)	ND		0.0100	0.000503	ng/g
PCB 52 (BZ)	ND		0.0100	0.000468	ng/g
PCB 53 (BZ)	ND		0.0100	0.000467	ng/g
PCB 54 (BZ)	ND		0.0100	0.000490	ng/g
PCB 55 (BZ)	ND		0.0100	0.000376	ng/g
PCB 56 (BZ)	ND		0.0100	0.000353	ng/g
PCB 57 (BZ)	ND		0.0100	0.000358	ng/g
PCB 58 (BZ)	ND		0.0100	0.000356	ng/g
PCB 59 (BZ)	ND		0.0100	0.000345	ng/g
PCB 60 (BZ)	ND		0.0100	0.000364	ng/g
PCB 61 (BZ)	**0.000909**	**C J**	**0.0200**	**0.000345**	**ng/g**
PCB 62 (BZ)	ND		0.0100	0.000345	ng/g
PCB 63 (BZ)	ND		0.0100	0.000332	ng/g
PCB 64 (BZ)	ND		0.0100	0.000327	ng/g
PCB 65 (BZ)	**0.00102**	**C44 J**	**0.0100**	**0.000434**	**ng/g**
PCB 66 (BZ)	**0.000441**	**Q J**	**0.0100**	**0.000343**	**ng/g**
PCB 67 (BZ)	ND		0.0100	0.000322	ng/g
PCB 68 (BZ)	ND		0.0100	0.000324	ng/g
PCB 69 (BZ)	ND		0.0100	0.000400	ng/g
PCB 70 (BZ)	**0.000909**	**C61 J**	**0.0200**	**0.000345**	**ng/g**
PCB 71 (BZ)	ND		0.0100	0.000485	ng/g
PCB 72 (BZ)	ND		0.0100	0.000348	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 108B	**Work Order #....:**	LT49A1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	100
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND		0.0100	0.000453	ng/g
PCB 74 (BZ)	**0.000909**	**C61 J**	**0.0200**	**0.000345**	**ng/g**
PCB 75 (BZ)	ND		0.0100	0.000345	ng/g
PCB 76 (BZ)	**0.000909**	**C61 J**	**0.0200**	**0.000345**	**ng/g**
PCB 77 (BZ)	ND		0.0100	0.000339	ng/g
PCB 78 (BZ)	ND		0.0100	0.000370	ng/g
PCB 79 (BZ)	ND		0.0100	0.000324	ng/g
PCB 80 (BZ)	ND		0.0100	0.000317	ng/g
PCB 81 (BZ)	ND		0.0100	0.000331	ng/g
PCB 82 (BZ)	ND		0.0100	0.000428	ng/g
PCB 83 (BZ)	ND		0.0100	0.000359	ng/g
PCB 84 (BZ)	ND		0.0100	0.000409	ng/g
PCB 85 (BZ)	ND		0.0100	0.000296	ng/g
PCB 86 (BZ)	ND		0.0100	0.000303	ng/g
PCB 87 (BZ)	ND		0.0100	0.000303	ng/g
PCB 88 (BZ)	ND		0.0100	0.000364	ng/g
PCB 89 (BZ)	ND		0.0100	0.000395	ng/g
PCB 90 (BZ)	ND		0.0100	0.000308	ng/g
PCB 91 (BZ)	ND		0.0100	0.000364	ng/g
PCB 92 (BZ)	ND		0.0100	0.000350	ng/g
PCB 93 (BZ)	ND		0.0100	0.000351	ng/g
PCB 94 (BZ)	ND		0.0100	0.000395	ng/g
PCB 95 (BZ)	ND		0.0100	0.000372	ng/g
PCB 96 (BZ)	ND		0.0100	0.000296	ng/g
PCB 97 (BZ)	ND		0.0100	0.000303	ng/g
PCB 98 (BZ)	ND		0.0100	0.000340	ng/g
PCB 99 (BZ)	ND		0.0100	0.000359	ng/g
PCB 100 (BZ)	ND		0.0100	0.000351	ng/g
PCB 101 (BZ)	ND		0.0100	0.000308	ng/g
PCB 102 (BZ)	ND		0.0100	0.000340	ng/g
PCB 103 (BZ)	ND		0.0100	0.000347	ng/g
PCB 104 (BZ)	ND		0.0100	0.000264	ng/g
PCB 105 (BZ)	ND		0.0100	0.000317	ng/g
PCB 106 (BZ)	ND		0.0100	0.000332	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND		0.0100	0.000322	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND		0.0100	0.000339	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H0B030000 - 108B **Work Order #....:** LT49A1AA **Matrix....:** SOLID
Dilution Factor: 1
Prep Date....: 02/03/10 **Analysis Date....:** 02/09/10 **Percent Moisture:** 100
Prep Batch # ....: 0034108
Initial Wgt/Vol : 10 g **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Patricia(Trish) M. Parsly

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	ND	0.0100	0.000303	ng/g
PCB 110 (BZ)	ND	0.0100	0.000261	ng/g
PCB 111 (BZ)	ND	0.0100	0.000248	ng/g
PCB 112 (BZ)	ND	0.0100	0.000269	ng/g
PCB 113 (BZ)	ND	0.0100	0.000308	ng/g
PCB 114 (BZ)	ND	0.0100	0.000306	ng/g
PCB 115 (BZ)	ND	0.0100	0.000261	ng/g
PCB 116 (BZ)	ND	0.0100	0.000296	ng/g
PCB 117 (BZ)	ND	0.0100	0.000296	ng/g
PCB 118 (BZ)	ND	0.0100	0.000309	ng/g
PCB 119 (BZ)	ND	0.0100	0.000303	ng/g
PCB 120 (BZ)	ND	0.0100	0.000255	ng/g
PCB 121 (BZ)	ND	0.0100	0.000257	ng/g
PCB 122 (BZ)	ND	0.0100	0.000362	ng/g
PCB 123 (BZ)	ND	0.0100	0.000332	ng/g
PCB 124 (BZ)	ND	0.0100	0.000339	ng/g
PCB 125 (BZ)	ND	0.0100	0.000303	ng/g
PCB 126 (BZ)	ND	0.0100	0.000329	ng/g
PCB 127 (BZ)	ND	0.0100	0.000328	ng/g
PCB 128 (BZ)	ND	0.0100	0.000415	ng/g
PCB 129 (BZ)	ND	0.0100	0.000429	ng/g
PCB 130 (BZ)	ND	0.0100	0.000554	ng/g
PCB 131 (BZ)	ND	0.0100	0.000568	ng/g
PCB 132 (BZ)	ND	0.0100	0.000540	ng/g
PCB 133 (BZ)	ND	0.0100	0.000521	ng/g
PCB 134 (BZ)	ND	0.0100	0.000555	ng/g
PCB 135 (BZ)	ND	0.0100	0.000453	ng/g
PCB 136 (BZ)	ND	0.0100	0.000332	ng/g
PCB 137 (BZ)	ND	0.0100	0.000478	ng/g
PCB 138 (BZ)	ND	0.0100	0.000429	ng/g
PCB 139 (BZ)	ND	0.0100	0.000475	ng/g
PCB 140 (BZ)	ND	0.0100	0.000475	ng/g
PCB 141 (BZ)	ND	0.0100	0.000495	ng/g
PCB 142 (BZ)	ND	0.0100	0.000546	ng/g
PCB 143 (BZ)	ND	0.0100	0.000555	ng/g
PCB 144 (BZ)	ND	0.0100	0.000420	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H0B030000 - 108B **Work Order #....:** LT49A1AA **Matrix....:** SOLID
Dilution Factor: 1
Prep Date....: 02/03/10 **Analysis Date....:** 02/09/10 **Percent Moisture:** 100
Prep Batch # ....: 0034108
Initial Wgt/Vol : 10 g **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Patricia(Trish) M. Parsly

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND	0.0100	0.000318	ng/g
PCB 146 (BZ)	ND	0.0100	0.000452	ng/g
PCB 147 (BZ)	ND	0.0100	0.000462	ng/g
PCB 148 (BZ)	ND	0.0100	0.000444	ng/g
PCB 149 (BZ)	ND	0.0100	0.000462	ng/g
PCB 150 (BZ)	ND	0.0100	0.000310	ng/g
PCB 151 (BZ)	ND	0.0100	0.000453	ng/g
PCB 152 (BZ)	ND	0.0100	0.000316	ng/g
PCB 153 (BZ)	ND	0.0100	0.000371	ng/g
PCB 154 (BZ)	ND	0.0100	0.000368	ng/g
PCB 155 (BZ)	ND	0.0100	0.000301	ng/g
PCB 156 (BZ)	ND	0.0100	0.000459	ng/g
PCB 157 (BZ)	ND	0.0100	0.000459	ng/g
PCB 158 (BZ)	ND	0.0100	0.000339	ng/g
PCB 159 (BZ)	ND	0.0100	0.000363	ng/g
PCB 160 (BZ)	ND	0.0100	0.000429	ng/g
PCB 161 (BZ)	ND	0.0100	0.000361	ng/g
PCB 162 (BZ)	ND	0.0100	0.000359	ng/g
PCB 163 (BZ)	ND	0.0100	0.000429	ng/g
PCB 164 (BZ)	ND	0.0100	0.000378	ng/g
PCB 165 (BZ)	ND	0.0100	0.000397	ng/g
PCB 166 (BZ)	ND	0.0100	0.000415	ng/g
PCB 167 (BZ)	ND	0.0100	0.000275	ng/g
PCB 168 (BZ)	ND	0.0100	0.000371	ng/g
PCB 169 (BZ)	ND	0.0100	0.000271	ng/g
PCB 170 (BZ)	ND	0.0100	0.000416	ng/g
PCB 171 (BZ)	ND	0.0100	0.000399	ng/g
PCB 172 (BZ)	ND	0.0100	0.000395	ng/g
PCB 173 (BZ)	ND	0.0100	0.000399	ng/g
PCB 174 (BZ)	ND	0.0100	0.000370	ng/g
PCB 175 (BZ)	ND	0.0100	0.000355	ng/g
PCB 176 (BZ)	ND	0.0100	0.000271	ng/g
PCB 177 (BZ)	ND	0.0100	0.000379	ng/g
PCB 178 (BZ)	ND	0.0100	0.000384	ng/g
PCB 179 (BZ)	ND	0.0100	0.000285	ng/g
PCB 180 (BZ)	ND	0.0100	0.000302	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H0B030000 - 108B **Work Order #....:** LT49A1AA **Matrix....:** SOLID
Dilution Factor: 1
Prep Date....: 02/03/10 **Analysis Date....:** 02/09/10 **Percent Moisture:** 100
Prep Batch # ....: 0034108
Initial Wgt/Vol : 10 g **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Patricia(Trish) M. Parsly

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND	0.0100	0.000355	ng/g
PCB 182 (BZ)	ND	0.0100	0.000345	ng/g
PCB 183 (BZ)	ND	0.0100	0.000353	ng/g
PCB 184 (BZ)	ND	0.0100	0.000293	ng/g
PCB 185 (BZ)	ND	0.0100	0.000353	ng/g
PCB 186 (BZ)	ND	0.0100	0.000285	ng/g
PCB 187 (BZ)	ND	0.0100	0.000330	ng/g
PCB 188 (BZ)	ND	0.0100	0.000252	ng/g
PCB 189 (BZ)	ND	0.0100	0.000298	ng/g
PCB 190 (BZ)	ND	0.0100	0.000275	ng/g
PCB 191 (BZ)	ND	0.0100	0.000270	ng/g
PCB 192 (BZ)	ND	0.0100	0.000302	ng/g
PCB 193 (BZ)	ND	0.0100	0.000302	ng/g
PCB 194 (BZ)	ND	0.0100	0.000290	ng/g
PCB 195 (BZ)	ND	0.0100	0.000315	ng/g
PCB 196 (BZ)	ND	0.0100	0.000354	ng/g
PCB 197 (BZ)	ND	0.0100	0.000264	ng/g
PCB 198 (BZ)	ND	0.0100	0.000366	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND	0.0100	0.000366	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND	0.0100	0.000259	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND	0.0100	0.000250	ng/g
PCB 202 (BZ)	ND	0.0100	0.000282	ng/g
PCB 203 (BZ)	ND	0.0100	0.000327	ng/g
PCB 204 (BZ)	ND	0.0100	0.000274	ng/g
PCB 205 (BZ)	ND	0.0100	0.000244	ng/g
PCB 206 (BZ)	ND	0.0100	0.000417	ng/g
PCB 207 (BZ)	ND	0.0100	0.000310	ng/g
PCB 208 (BZ)	ND	0.0100	0.000334	ng/g
PCB 209 (BZ)	ND	0.0100	0.000499	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 108B	**Work Order #....:**	LT49A1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	100
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	67		30 - 140
13C12-PCB 3	59		30 - 140
13C12-PCB 4	81		30 - 140
13C12-PCB 15	72		30 - 140
13C12-PCB 19	77		30 - 140
13C12-PCB 37	74		30 - 140
13C12-PCB 54	77		30 - 140
13C12-PCB 77	71		30 - 140
13C12-PCB 81	71		30 - 140
13C12-PCB 104	87		30 - 140
13C12-PCB 105	81		30 - 140
13C12-PCB 114	83		30 - 140
13C12-PCB 118	81		30 - 140
13C12-PCB 123	82		30 - 140
13C12-PCB 126	83		30 - 140
13C12-PCB 155	97		30 - 140
13C12-PCB 156	84	C	30 - 140
13C12-PCB 157	84	C	30 - 140
13C12-PCB 167	82		30 - 140
13C12-PCB 169	81		30 - 140
13C12-PCB 170	90		30 - 140
13C12-PCB 188	96		30 - 140
13C12-PCB 189	79		30 - 140
13C12-PCB 202	110		30 - 140
13C12-PCB 205	95		30 - 140
13C12-PCB 206	107		30 - 140
13C12-PCB 208	99		30 - 140
13C12-PCB 209	105		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	81	40 - 125
13C12-PCB 111	88	40 - 125
13C12-PCB 178	87	40 - 125

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 108B	**Work Order #....:**	LT49A1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	100
Prep Batch # ....:	0034108				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	H0B020462	**Work Order # ...:**	LT49A1AC-LCS	**Matrix .....:**	SOLID
LCS Lot-Sample# :	H0B030000 - 108				
Prep Date .....:	02/03/10	**Analysis Date ..:**	02/08/10		
Prep Batch # ...:	0034108				
Dilution Factor :	1				
Analyst ID.....:	Patricia(Trish) M. Parsl	**Instrument ID..:**	M1D	**Method.....:**	EPA-22 1668A
Initial Wgt/Vol:	10 g				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS
PCB 1 (BZ)	0.500	0.383	ng/g	77		(50 - 150)
PCB 3 (BZ)	0.500	0.424	ng/g	85		(50 - 150)
PCB 4 (BZ)	0.500	0.429	ng/g	86		(50 - 150)
PCB 15 (BZ)	0.500	0.460	ng/g	92		(50 - 150)
PCB 19 (BZ)	0.500	0.502	ng/g	100		(50 - 150)
PCB 37 (BZ)	0.500	0.463	ng/g	93		(50 - 150)
PCB 54 (BZ)	0.500	0.478	ng/g	96		(50 - 150)
PCB 77 (BZ)	0.500	0.459	ng/g	92		(50 - 150)
PCB 81 (BZ)	0.500	0.456	ng/g	91		(50 - 150)
PCB 104 (BZ)	0.500	0.479	ng/g	96		(50 - 150)
PCB 105 (BZ)	0.500	0.508	ng/g	102		(50 - 150)
PCB 114 (BZ)	0.500	0.524	ng/g	105		(50 - 150)
PCB 118 (BZ)	0.500	0.533	ng/g	107		(50 - 150)
PCB 123 (BZ)	0.500	0.519	ng/g	104		(50 - 150)
PCB 126 (BZ)	0.500	0.502	ng/g	100		(50 - 150)
PCB 155 (BZ)	0.500	0.494	ng/g	99		(50 - 150)
PCB 156 (BZ)	1.00	0.952	ng/g	95	C	(50 - 150)
PCB 157 (BZ)	1.00	0.952	ng/g	95	C C156	(50 - 150)
PCB 167 (BZ)	0.500	0.492	ng/g	98		(50 - 150)
PCB 169 (BZ)	0.500	0.464	ng/g	93		(50 - 150)
PCB 188 (BZ)	0.500	0.463	ng/g	93		(50 - 150)
PCB 189 (BZ)	0.500	0.524	ng/g	105		(50 - 150)
PCB 202 (BZ)	0.500	0.455	ng/g	91		(50 - 150)
PCB 205 (BZ)	0.500	0.471	ng/g	94		(50 - 150)
PCB 206 (BZ)	0.500	0.448	ng/g	90		(50 - 150)
PCB 208 (BZ)	0.500	0.486	ng/g	97		(50 - 150)
PCB 209 (BZ)	0.500	0.541	ng/g	108		(50 - 150)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	62	(30 - 140)
13C12-PCB 3	57	(30 - 140)
13C12-PCB 4	77	(30 - 140)
13C12-PCB 15	77	(30 - 140)
13C12-PCB 19	73	(30 - 140)
13C12-PCB 37	78	(30 - 140)
13C12-PCB 54	77	(30 - 140)
13C12-PCB 77	78	(30 - 140)
13C12-PCB 81	77	(30 - 140)
13C12-PCB 104	84	(30 - 140)
13C12-PCB 105	86	(30 - 140)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: H0B020462 **Work Order # ...:** LT49A1AC-LCS **Matrix .....:** SOLID
LCS Lot-Sample# : H0B030000 - 108

INTERNAL STANDARD	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 114	84		(30 - 140)
13C12-PCB 118	80		(30 - 140)
13C12-PCB 123	82		(30 - 140)
13C12-PCB 126	85		(30 - 140)
13C12-PCB 155	96		(30 - 140)
13C12-PCB 156	83	**C**	(30 - 140)
13C12-PCB 157	83	**C**	(30 - 140)
13C12-PCB 167	80		(30 - 140)
13C12-PCB 169	83		(30 - 140)
13C12-PCB 170	94		(30 - 140)
13C12-PCB 188	95		(30 - 140)
13C12-PCB 189	79		(30 - 140)
13C12-PCB 202	112		(30 - 140)
13C12-PCB 205	94		(30 - 140)
13C12-PCB 206	107		(30 - 140)
13C12-PCB 208	101		(30 - 140)
13C12-PCB 209	107		(30 - 140)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	81	(40 - 125)
13C12-PCB 111	87	(40 - 125)
13C12-PCB 178	86	(40 - 125)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

C Co-eluting isomer.

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 111B	**Work Order #....:**	LT49J1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	100
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)	ND		0.0100	0.000162	ng/g
PCB 2 (BZ)	ND		0.0100	0.000196	ng/g
PCB 3 (BZ)	ND		0.0100	0.000244	ng/g
PCB 4 (BZ)	ND		0.0200	0.00241	ng/g
PCB 5 (BZ)	ND		0.0100	0.00218	ng/g
PCB 6 (BZ)	ND		0.0100	0.00205	ng/g
PCB 7 (BZ)	ND		0.0100	0.00211	ng/g
PCB 8 (BZ)	**0.00131**	**Q J**	**0.0200**	**0.00200**	**ng/g**
PCB 9 (BZ)	ND		0.0100	0.00212	ng/g
PCB 10 (BZ)	ND		0.0100	0.00227	ng/g
PCB 11 (BZ)	**0.00251**	**Q J**	**0.0200**	**0.00202**	**ng/g**
PCB 12 (BZ)	ND		0.0100	0.00207	ng/g
PCB 13 (BZ)	ND		0.0100	0.00207	ng/g
PCB 14 (BZ)	ND		0.0100	0.00178	ng/g
PCB 15 (BZ)	ND		0.0100	0.00243	ng/g
PCB 16 (BZ)	ND		0.0100	0.000826	ng/g
PCB 17 (BZ)	ND		0.0100	0.000689	ng/g
PCB 18 (BZ)	ND		0.0200	0.000610	ng/g
PCB 19 (BZ)	ND		0.0100	0.000844	ng/g
PCB 20 (BZ)	**0.00104**	**Q C J**	**0.0200**	**0.000456**	**ng/g**
PCB 21 (BZ)	**0.000850**	**Q C J**	**0.0100**	**0.000457**	**ng/g**
PCB 22 (BZ)	ND		0.0100	0.000464	ng/g
PCB 23 (BZ)	ND		0.0100	0.000474	ng/g
PCB 24 (BZ)	ND		0.0100	0.000577	ng/g
PCB 25 (BZ)	ND		0.0100	0.000422	ng/g
PCB 26 (BZ)	ND		0.0100	0.000448	ng/g
PCB 27 (BZ)	ND		0.0100	0.000498	ng/g
PCB 28 (BZ)	**0.00104**	**Q C20 J**	**0.0200**	**0.000456**	**ng/g**
PCB 29 (BZ)	ND		0.0100	0.000448	ng/g
PCB 30 (BZ)	ND		0.0200	0.000610	ng/g
PCB 31 (BZ)	**0.000695**	**Q J**	**0.0200**	**0.000445**	**ng/g**
PCB 32 (BZ)	ND		0.0100	0.000488	ng/g
PCB 33 (BZ)	**0.000850**	**Q C21 J**	**0.0100**	**0.000457**	**ng/g**
PCB 34 (BZ)	ND		0.0100	0.000466	ng/g
PCB 35 (BZ)	ND		0.0100	0.000479	ng/g
PCB 36 (BZ)	ND		0.0100	0.000463	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 111B	**Work Order #....:**	LT49J1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	100
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)	ND		0.0100	0.000475	ng/g
PCB 38 (BZ)	ND		0.0100	0.000488	ng/g
PCB 39 (BZ)	ND		0.0100	0.000434	ng/g
PCB 40 (BZ)	ND		0.0100	0.000695	ng/g
PCB 41 (BZ)	ND		0.0100	0.000695	ng/g
PCB 42 (BZ)	ND		0.0100	0.000707	ng/g
PCB 43 (BZ)	ND		0.0100	0.000649	ng/g
PCB 44 (BZ)	**0.00171**	**C J**	**0.0100**	**0.000621**	**ng/g**
PCB 45 (BZ)	ND		0.0100	0.000720	ng/g
PCB 46 (BZ)	ND		0.0100	0.000851	ng/g
PCB 47 (BZ)	**0.00171**	**C44 J**	**0.0100**	**0.000621**	**ng/g**
PCB 48 (BZ)	ND		0.0100	0.000689	ng/g
PCB 49 (BZ)	ND		0.0100	0.000572	ng/g
PCB 50 (BZ)	ND		0.0100	0.000669	ng/g
PCB 51 (BZ)	ND		0.0100	0.000720	ng/g
PCB 52 (BZ)	ND		0.0100	0.000670	ng/g
PCB 53 (BZ)	ND		0.0100	0.000669	ng/g
PCB 54 (BZ)	ND		0.0100	0.000683	ng/g
PCB 55 (BZ)	ND		0.0100	0.000538	ng/g
PCB 56 (BZ)	ND		0.0100	0.000506	ng/g
PCB 57 (BZ)	ND		0.0100	0.000512	ng/g
PCB 58 (BZ)	ND		0.0100	0.000510	ng/g
PCB 59 (BZ)	ND		0.0100	0.000495	ng/g
PCB 60 (BZ)	ND		0.0100	0.000521	ng/g
PCB 61 (BZ)	ND		0.0200	0.000494	ng/g
PCB 62 (BZ)	ND		0.0100	0.000495	ng/g
PCB 63 (BZ)	ND		0.0100	0.000475	ng/g
PCB 64 (BZ)	ND		0.0100	0.000468	ng/g
PCB 65 (BZ)	**0.00171**	**C44 J**	**0.0100**	**0.000621**	**ng/g**
PCB 66 (BZ)	ND		0.0100	0.000491	ng/g
PCB 67 (BZ)	ND		0.0100	0.000461	ng/g
PCB 68 (BZ)	ND		0.0100	0.000464	ng/g
PCB 69 (BZ)	ND		0.0100	0.000572	ng/g
PCB 70 (BZ)	ND		0.0200	0.000494	ng/g
PCB 71 (BZ)	ND		0.0100	0.000695	ng/g
PCB 72 (BZ)	ND		0.0100	0.000498	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H0B030000 - 111B **Work Order #....:** LT49J1AA **Matrix....:** SOLID
Dilution Factor: 1
Prep Date....: 02/03/10 **Analysis Date....:** 02/09/10 **Percent Moisture:** 100
Prep Batch # ....: 0034111
Initial Wgt/Vol : 10 g **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Jon M. Nordquist

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND	0.0100	0.000649	ng/g
PCB 74 (BZ)	ND	0.0200	0.000494	ng/g
PCB 75 (BZ)	ND	0.0100	0.000495	ng/g
PCB 76 (BZ)	ND	0.0200	0.000494	ng/g
PCB 77 (BZ)	ND	0.0100	0.000481	ng/g
PCB 78 (BZ)	ND	0.0100	0.000529	ng/g
PCB 79 (BZ)	ND	0.0100	0.000465	ng/g
PCB 80 (BZ)	ND	0.0100	0.000454	ng/g
PCB 81 (BZ)	ND	0.0100	0.000479	ng/g
PCB 82 (BZ)	ND	0.0100	0.000592	ng/g
PCB 83 (BZ)	ND	0.0100	0.000497	ng/g
PCB 84 (BZ)	ND	0.0100	0.000566	ng/g
PCB 85 (BZ)	ND	0.0100	0.000410	ng/g
PCB 86 (BZ)	ND	0.0100	0.000419	ng/g
PCB 87 (BZ)	ND	0.0100	0.000419	ng/g
PCB 88 (BZ)	ND	0.0100	0.000504	ng/g
PCB 89 (BZ)	ND	0.0100	0.000547	ng/g
PCB 90 (BZ)	ND	0.0100	0.000426	ng/g
PCB 91 (BZ)	ND	0.0100	0.000504	ng/g
PCB 92 (BZ)	ND	0.0100	0.000484	ng/g
PCB 93 (BZ)	ND	0.0100	0.000486	ng/g
PCB 94 (BZ)	ND	0.0100	0.000547	ng/g
PCB 95 (BZ)	ND	0.0100	0.000515	ng/g
PCB 96 (BZ)	ND	0.0100	0.000409	ng/g
PCB 97 (BZ)	ND	0.0100	0.000419	ng/g
PCB 98 (BZ)	ND	0.0100	0.000471	ng/g
PCB 99 (BZ)	ND	0.0100	0.000497	ng/g
PCB 100 (BZ)	ND	0.0100	0.000486	ng/g
PCB 101 (BZ)	ND	0.0100	0.000426	ng/g
PCB 102 (BZ)	ND	0.0100	0.000471	ng/g
PCB 103 (BZ)	ND	0.0100	0.000480	ng/g
PCB 104 (BZ)	ND	0.0100	0.000365	ng/g
PCB 105 (BZ)	ND	0.0100	0.000363	ng/g
PCB 106 (BZ)	ND	0.0100	0.000380	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND	0.0100	0.000369	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND	0.0100	0.000388	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 111B	**Work Order #....:**	LT49J1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	100
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	ND		0.0100	0.000419	ng/g
PCB 110 (BZ)	ND		0.0100	0.000362	ng/g
PCB 111 (BZ)	ND		0.0100	0.000343	ng/g
PCB 112 (BZ)	ND		0.0100	0.000372	ng/g
PCB 113 (BZ)	ND		0.0100	0.000426	ng/g
PCB 114 (BZ)	ND		0.0100	0.000337	ng/g
PCB 115 (BZ)	ND		0.0100	0.000362	ng/g
PCB 116 (BZ)	ND		0.0100	0.000410	ng/g
PCB 117 (BZ)	ND		0.0100	0.000410	ng/g
PCB 118 (BZ)	ND		0.0100	0.000366	ng/g
PCB 119 (BZ)	ND		0.0100	0.000419	ng/g
PCB 120 (BZ)	ND		0.0100	0.000353	ng/g
PCB 121 (BZ)	ND		0.0100	0.000355	ng/g
PCB 122 (BZ)	ND		0.0100	0.000414	ng/g
PCB 123 (BZ)	ND		0.0100	0.000373	ng/g
PCB 124 (BZ)	ND		0.0100	0.000388	ng/g
PCB 125 (BZ)	ND		0.0100	0.000419	ng/g
PCB 126 (BZ)	ND		0.0100	0.000385	ng/g
PCB 127 (BZ)	ND		0.0100	0.000376	ng/g
PCB 128 (BZ)	ND		0.0100	0.000608	ng/g
PCB 129 (BZ)	**0.00307**	**C J**	**0.0100**	**0.000629**	**ng/g**
PCB 130 (BZ)	ND		0.0100	0.000812	ng/g
PCB 131 (BZ)	ND		0.0100	0.000831	ng/g
PCB 132 (BZ)	ND		0.0100	0.000791	ng/g
PCB 133 (BZ)	ND		0.0100	0.000763	ng/g
PCB 134 (BZ)	ND		0.0100	0.000812	ng/g
PCB 135 (BZ)	ND		0.0100	0.000694	ng/g
PCB 136 (BZ)	ND		0.0100	0.000509	ng/g
PCB 137 (BZ)	ND		0.0100	0.000700	ng/g
PCB 138 (BZ)	**0.00307**	**C129 J**	**0.0100**	**0.000629**	**ng/g**
PCB 139 (BZ)	ND		0.0100	0.000696	ng/g
PCB 140 (BZ)	ND		0.0100	0.000696	ng/g
PCB 141 (BZ)	ND		0.0100	0.000725	ng/g
PCB 142 (BZ)	ND		0.0100	0.000799	ng/g
PCB 143 (BZ)	ND		0.0100	0.000812	ng/g
PCB 144 (BZ)	ND		0.0100	0.000644	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 111B	**Work Order #....:**	LT49J1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	100
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.0100	0.000487	ng/g
PCB 146 (BZ)	ND		0.0100	0.000661	ng/g
PCB 147 (BZ)	ND		0.0100	0.000676	ng/g
PCB 148 (BZ)	ND		0.0100	0.000681	ng/g
PCB 149 (BZ)	ND		0.0100	0.000676	ng/g
PCB 150 (BZ)	ND		0.0100	0.000475	ng/g
PCB 151 (BZ)	ND		0.0100	0.000694	ng/g
PCB 152 (BZ)	ND		0.0100	0.000484	ng/g
PCB 153 (BZ)	**0.00170**	**Q C J**	**0.0100**	**0.000543**	**ng/g**
PCB 154 (BZ)	ND		0.0100	0.000564	ng/g
PCB 155 (BZ)	ND		0.0100	0.000461	ng/g
PCB 156 (BZ)	ND		0.0100	0.000661	ng/g
PCB 157 (BZ)	ND		0.0100	0.000661	ng/g
PCB 158 (BZ)	ND		0.0100	0.000496	ng/g
PCB 159 (BZ)	ND		0.0100	0.000532	ng/g
PCB 160 (BZ)	**0.00307**	**C129 J**	**0.0100**	**0.000629**	**ng/g**
PCB 161 (BZ)	ND		0.0100	0.000529	ng/g
PCB 162 (BZ)	ND		0.0100	0.000525	ng/g
PCB 163 (BZ)	**0.00307**	**C129 J**	**0.0100**	**0.000629**	**ng/g**
PCB 164 (BZ)	ND		0.0100	0.000554	ng/g
PCB 165 (BZ)	ND		0.0100	0.000582	ng/g
PCB 166 (BZ)	ND		0.0100	0.000608	ng/g
PCB 167 (BZ)	ND		0.0100	0.000398	ng/g
PCB 168 (BZ)	**0.00170**	**Q C153 J**	**0.0100**	**0.000543**	**ng/g**
PCB 169 (BZ)	ND		0.0100	0.000410	ng/g
PCB 170 (BZ)	**0.00580**	**J**	**0.0100**	**0.000699**	**ng/g**
PCB 171 (BZ)	ND		0.0100	0.000667	ng/g
PCB 172 (BZ)	ND		0.0100	0.000661	ng/g
PCB 173 (BZ)	ND		0.0100	0.000667	ng/g
PCB 174 (BZ)	**0.00199**	**Q J**	**0.0100**	**0.000618**	**ng/g**
PCB 175 (BZ)	ND		0.0100	0.000594	ng/g
PCB 176 (BZ)	ND		0.0100	0.000452	ng/g
PCB 177 (BZ)	ND		0.0100	0.000633	ng/g
PCB 178 (BZ)	ND		0.0100	0.000642	ng/g
PCB 179 (BZ)	ND		0.0100	0.000477	ng/g
PCB 180 (BZ)	**0.0104**	**C**	**0.0100**	**0.000504**	**ng/g**

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 111B	**Work Order #....:**	LT49J1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	100
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.0100	0.000593	ng/g
PCB 182 (BZ)	ND		0.0100	0.000577	ng/g
PCB 183 (BZ)	**0.00100**	**Q C J**	**0.0100**	**0.000589**	**ng/g**
PCB 184 (BZ)	ND		0.0100	0.000490	ng/g
PCB 185 (BZ)	**0.00100**	**Q C183 J**	**0.0100**	**0.000589**	**ng/g**
PCB 186 (BZ)	ND		0.0100	0.000476	ng/g
PCB 187 (BZ)	ND		0.0100	0.000552	ng/g
PCB 188 (BZ)	ND		0.0100	0.000421	ng/g
PCB 189 (BZ)	ND		0.0100	0.000386	ng/g
PCB 190 (BZ)	ND		0.0100	0.000460	ng/g
PCB 191 (BZ)	ND		0.0100	0.000452	ng/g
PCB 192 (BZ)	ND		0.0100	0.000505	ng/g
PCB 193 (BZ)	**0.0104**	**C180**	**0.0100**	**0.000504**	**ng/g**
PCB 194 (BZ)	**0.00252**	**J**	**0.0100**	**0.000468**	**ng/g**
PCB 195 (BZ)	ND		0.0100	0.000508	ng/g
PCB 196 (BZ)	ND		0.0100	0.000612	ng/g
PCB 197 (BZ)	ND		0.0100	0.000456	ng/g
PCB 198 (BZ)	ND		0.0100	0.000632	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND		0.0100	0.000632	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND		0.0100	0.000447	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND		0.0100	0.000432	ng/g
PCB 202 (BZ)	ND		0.0100	0.000487	ng/g
PCB 203 (BZ)	ND		0.0100	0.000565	ng/g
PCB 204 (BZ)	ND		0.0100	0.000474	ng/g
PCB 205 (BZ)	ND		0.0100	0.000394	ng/g
PCB 206 (BZ)	**0.000825**	**Q J**	**0.0100**	**0.000440**	**ng/g**
PCB 207 (BZ)	ND		0.0100	0.000325	ng/g
PCB 208 (BZ)	ND		0.0100	0.000348	ng/g
PCB 209 (BZ)	ND		0.0100	0.000473	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 111B	**Work Order #....:**	LT49J1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	100
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	70		30 - 140
13C12-PCB 3	62		30 - 140
13C12-PCB 4	79		30 - 140
13C12-PCB 15	72		30 - 140
13C12-PCB 19	76		30 - 140
13C12-PCB 37	73		30 - 140
13C12-PCB 54	77		30 - 140
13C12-PCB 77	71		30 - 140
13C12-PCB 81	72		30 - 140
13C12-PCB 104	85		30 - 140
13C12-PCB 105	81		30 - 140
13C12-PCB 114	84		30 - 140
13C12-PCB 118	80		30 - 140
13C12-PCB 123	80		30 - 140
13C12-PCB 126	82		30 - 140
13C12-PCB 155	95		30 - 140
13C12-PCB 156	82	C	30 - 140
13C12-PCB 157	82	C	30 - 140
13C12-PCB 167	79		30 - 140
13C12-PCB 169	79		30 - 140
13C12-PCB 170	89		30 - 140
13C12-PCB 188	97		30 - 140
13C12-PCB 189	89		30 - 140
13C12-PCB 202	109		30 - 140
13C12-PCB 205	93		30 - 140
13C12-PCB 206	98		30 - 140
13C12-PCB 208	93		30 - 140
13C12-PCB 209	96		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	80	40 - 125
13C12-PCB 111	86	40 - 125
13C12-PCB 178	84	40 - 125

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 111B	**Work Order #....:**	LT49J1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/09/10	**Percent Moisture:**	100
Prep Batch # ....:	0034111				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	H0B020462	**Work Order # ...:**	LT49J1AC-LCS	**Matrix .....:**	SOLID
LCS Lot-Sample# :	H0B030000 - 111				
Prep Date .....:	02/03/10	**Analysis Date ..:**	02/09/10		
Prep Batch # ...:	0034111				
Dilution Factor :	1				
Analyst ID.....:	Jon M. Nordquist	**Instrument ID..:**	M1D	**Method.....:**	EPA-22 1668A
Initial Wgt/Vol:	10 g				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS
PCB 1 (BZ)	0.500	0.410	ng/g	82		(50 - 150)
PCB 3 (BZ)	0.500	0.453	ng/g	91		(50 - 150)
PCB 4 (BZ)	0.500	0.444	ng/g	89		(50 - 150)
PCB 15 (BZ)	0.500	0.465	ng/g	93		(50 - 150)
PCB 19 (BZ)	0.500	0.498	ng/g	100		(50 - 150)
PCB 37 (BZ)	0.500	0.492	ng/g	98		(50 - 150)
PCB 54 (BZ)	0.500	0.482	ng/g	96		(50 - 150)
PCB 77 (BZ)	0.500	0.494	ng/g	99		(50 - 150)
PCB 81 (BZ)	0.500	0.471	ng/g	94		(50 - 150)
PCB 104 (BZ)	0.500	0.493	ng/g	99		(50 - 150)
PCB 105 (BZ)	0.500	0.526	ng/g	105		(50 - 150)
PCB 114 (BZ)	0.500	0.530	ng/g	106		(50 - 150)
PCB 118 (BZ)	0.500	0.544	ng/g	109		(50 - 150)
PCB 123 (BZ)	0.500	0.593	ng/g	119		(50 - 150)
PCB 126 (BZ)	0.500	0.505	ng/g	101		(50 - 150)
PCB 155 (BZ)	0.500	0.503	ng/g	101		(50 - 150)
PCB 156 (BZ)	1.00	1.03	ng/g	103	C	(50 - 150)
PCB 157 (BZ)	1.00	1.03	ng/g	103	C C156	(50 - 150)
PCB 167 (BZ)	0.500	0.533	ng/g	107		(50 - 150)
PCB 169 (BZ)	0.500	0.485	ng/g	97		(50 - 150)
PCB 188 (BZ)	0.500	0.481	ng/g	96		(50 - 150)
PCB 189 (BZ)	0.500	0.530	ng/g	106		(50 - 150)
PCB 202 (BZ)	0.500	0.454	ng/g	91		(50 - 150)
PCB 205 (BZ)	0.500	0.497	ng/g	99		(50 - 150)
PCB 206 (BZ)	0.500	0.462	ng/g	92	B	(50 - 150)
PCB 208 (BZ)	0.500	0.515	ng/g	103		(50 - 150)
PCB 209 (BZ)	0.500	0.545	ng/g	109		(50 - 150)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	68	(30 - 140)
13C12-PCB 3	63	(30 - 140)
13C12-PCB 4	78	(30 - 140)
13C12-PCB 15	74	(30 - 140)
13C12-PCB 19	76	(30 - 140)
13C12-PCB 37	79	(30 - 140)
13C12-PCB 54	76	(30 - 140)
13C12-PCB 77	78	(30 - 140)
13C12-PCB 81	78	(30 - 140)
13C12-PCB 104	84	(30 - 140)
13C12-PCB 105	82	(30 - 140)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: H0B020462 **Work Order # ...:** LT49J1AC-LCS **Matrix .....:** SOLID
LCS Lot-Sample# : H0B030000 - 111

INTERNAL STANDARD	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 114	83		(30 - 140)
13C12-PCB 118	80		(30 - 140)
13C12-PCB 123	82		(30 - 140)
13C12-PCB 126	85		(30 - 140)
13C12-PCB 155	94		(30 - 140)
13C12-PCB 156	84	C	(30 - 140)
13C12-PCB 157	84	C	(30 - 140)
13C12-PCB 167	80		(30 - 140)
13C12-PCB 169	82		(30 - 140)
13C12-PCB 170	91		(30 - 140)
13C12-PCB 188	94		(30 - 140)
13C12-PCB 189	87		(30 - 140)
13C12-PCB 202	112		(30 - 140)
13C12-PCB 205	93		(30 - 140)
13C12-PCB 206	96		(30 - 140)
13C12-PCB 208	91		(30 - 140)
13C12-PCB 209	95		(30 - 140)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	82	(40 - 125)
13C12-PCB 111	89	(40 - 125)
13C12-PCB 178	88	(40 - 125)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H0B030000 - 272B **Work Order #....:** LT50H1AA **Matrix....:** WATER
Dilution Factor: 1
Prep Date....: 02/03/10 **Analysis Date....:** 02/10/10
Prep Batch # ....: 0034272
Initial Wgt/Vol : 1000 mL **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Jon M. Nordquist

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)	**0.00208**	**J**	**0.0400**	**0.000466**	**ng/L**
PCB 2 (BZ)	ND		0.0400	0.000563	ng/L
PCB 3 (BZ)	ND		0.0400	0.000697	ng/L
PCB 4 (BZ)	**0.0183**	**Q J**	**0.0600**	**0.00434**	**ng/L**
PCB 5 (BZ)	ND		0.0400	0.00370	ng/L
PCB 6 (BZ)	ND		0.0400	0.00348	ng/L
PCB 7 (BZ)	ND		0.0400	0.00357	ng/L
PCB 8 (BZ)	**0.00462**	**Q J**	**0.0600**	**0.00340**	**ng/L**
PCB 9 (BZ)	ND		0.0400	0.00359	ng/L
PCB 10 (BZ)	**0.00269**	**Q J**	**0.0400**	**0.00386**	**ng/L**
PCB 11 (BZ)	**0.00683**	**Q J**	**0.0600**	**0.00342**	**ng/L**
PCB 12 (BZ)	ND		0.0600	0.00351	ng/L
PCB 13 (BZ)	ND		0.0600	0.00351	ng/L
PCB 14 (BZ)	ND		0.0400	0.00302	ng/L
PCB 15 (BZ)	**0.00554**	**Q J**	**0.0400**	**0.00390**	**ng/L**
PCB 16 (BZ)	**0.00780**	**J**	**0.0400**	**0.00270**	**ng/L**
PCB 17 (BZ)	**0.0123**	**J**	**0.0400**	**0.00225**	**ng/L**
PCB 18 (BZ)	**0.0299**	**C J**	**0.0600**	**0.00200**	**ng/L**
PCB 19 (BZ)	**0.0108**	**J**	**0.0400**	**0.00276**	**ng/L**
PCB 20 (BZ)	**0.0475**	**C**	**0.0400**	**0.00134**	**ng/L**
PCB 21 (BZ)	**0.00232**	**C J**	**0.0400**	**0.00134**	**ng/L**
PCB 22 (BZ)	**0.00956**	**J**	**0.0400**	**0.00136**	**ng/L**
PCB 23 (BZ)	ND		0.0400	0.00139	ng/L
PCB 24 (BZ)	ND		0.0400	0.00189	ng/L
PCB 25 (BZ)	ND		0.0400	0.00124	ng/L
PCB 26 (BZ)	**0.00162**	**Q C J**	**0.0400**	**0.00132**	**ng/L**
PCB 27 (BZ)	**0.00331**	**Q J**	**0.0400**	**0.00163**	**ng/L**
PCB 28 (BZ)	**0.0475**	**C20**	**0.0400**	**0.00134**	**ng/L**
PCB 29 (BZ)	**0.00162**	**Q C26 J**	**0.0400**	**0.00132**	**ng/L**
PCB 30 (BZ)	**0.0299**	**C18 J**	**0.0600**	**0.00200**	**ng/L**
PCB 31 (BZ)	**0.00455**	**Q J**	**0.0400**	**0.00131**	**ng/L**
PCB 32 (BZ)	**0.0205**	**J**	**0.0400**	**0.00160**	**ng/L**
PCB 33 (BZ)	**0.00232**	**C21 J**	**0.0400**	**0.00134**	**ng/L**
PCB 34 (BZ)	ND		0.0400	0.00137	ng/L
PCB 35 (BZ)	ND		0.0400	0.00141	ng/L
PCB 36 (BZ)	ND		0.0400	0.00136	ng/L

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H0B030000 - 272B **Work Order #....:** LT50H1AA **Matrix....:** WATER
Dilution Factor: 1
Prep Date....: 02/03/10 **Analysis Date....:** 02/10/10
Prep Batch # ....: 0034272
Initial Wgt/Vol : 1000 mL **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Jon M. Nordquist

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)	**0.00262**	**J**	**0.0400**	**0.00140**	**ng/L**
PCB 38 (BZ)	ND		0.0400	0.00144	ng/L
PCB 39 (BZ)	ND		0.0400	0.00128	ng/L
PCB 40 (BZ)	ND		0.0400	0.00210	ng/L
PCB 41 (BZ)	ND		0.0400	0.00210	ng/L
PCB 42 (BZ)	ND		0.0400	0.00214	ng/L
PCB 43 (BZ)	ND		0.0400	0.00196	ng/L
PCB 44 (BZ)	**0.0130**	**C J**	**0.0400**	**0.00188**	**ng/L**
PCB 45 (BZ)	**0.00514**	**C J**	**0.0400**	**0.00218**	**ng/L**
PCB 46 (BZ)	ND		0.0400	0.00257	ng/L
PCB 47 (BZ)	**0.0130**	**C44 J**	**0.0400**	**0.00188**	**ng/L**
PCB 48 (BZ)	ND		0.0400	0.00208	ng/L
PCB 49 (BZ)	**0.00623**	**C J**	**0.0400**	**0.00173**	**ng/L**
PCB 50 (BZ)	**0.00333**	**C J**	**0.0400**	**0.00202**	**ng/L**
PCB 51 (BZ)	**0.00514**	**C45 J**	**0.0400**	**0.00218**	**ng/L**
PCB 52 (BZ)	**0.0101**	**Q J**	**0.0400**	**0.00202**	**ng/L**
PCB 53 (BZ)	**0.00333**	**C50 J**	**0.0400**	**0.00202**	**ng/L**
PCB 54 (BZ)	ND		0.0400	0.00260	ng/L
PCB 55 (BZ)	ND		0.0400	0.00163	ng/L
PCB 56 (BZ)	ND		0.0400	0.00153	ng/L
PCB 57 (BZ)	ND		0.0400	0.00155	ng/L
PCB 58 (BZ)	ND		0.0400	0.00154	ng/L
PCB 59 (BZ)	ND		0.0400	0.00150	ng/L
PCB 60 (BZ)	ND		0.0400	0.00158	ng/L
PCB 61 (BZ)	**0.00420**	**Q C J**	**0.0400**	**0.00149**	**ng/L**
PCB 62 (BZ)	ND		0.0400	0.00150	ng/L
PCB 63 (BZ)	ND		0.0400	0.00144	ng/L
PCB 64 (BZ)	**0.00349**	**J**	**0.0400**	**0.00142**	**ng/L**
PCB 65 (BZ)	**0.0130**	**C44 J**	**0.0400**	**0.00188**	**ng/L**
PCB 66 (BZ)	**0.00275**	**Q J**	**0.0400**	**0.00148**	**ng/L**
PCB 67 (BZ)	ND		0.0400	0.00139	ng/L
PCB 68 (BZ)	ND		0.0400	0.00140	ng/L
PCB 69 (BZ)	**0.00623**	**C49 J**	**0.0400**	**0.00173**	**ng/L**
PCB 70 (BZ)	**0.00420**	**Q C61 J**	**0.0400**	**0.00149**	**ng/L**
PCB 71 (BZ)	ND		0.0400	0.00210	ng/L
PCB 72 (BZ)	ND		0.0400	0.00151	ng/L

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H0B030000 - 272B **Work Order #....:** LT50H1AA **Matrix....:** WATER
Dilution Factor: 1
Prep Date....: 02/03/10 **Analysis Date....:** 02/10/10
Prep Batch # ....: 0034272
Initial Wgt/Vol : 1000 mL **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Jon M. Nordquist

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	ND		0.0400	0.00196	ng/L
PCB 74 (BZ)	**0.00420**	**Q C61 J**	**0.0400**	**0.00149**	**ng/L**
PCB 75 (BZ)	ND		0.0400	0.00150	ng/L
PCB 76 (BZ)	**0.00420**	**Q C61 J**	**0.0400**	**0.00149**	**ng/L**
PCB 77 (BZ)	ND		0.0400	0.00143	ng/L
PCB 78 (BZ)	ND		0.0400	0.00160	ng/L
PCB 79 (BZ)	ND		0.0400	0.00140	ng/L
PCB 80 (BZ)	ND		0.0400	0.00137	ng/L
PCB 81 (BZ)	ND		0.0400	0.00147	ng/L
PCB 82 (BZ)	ND		0.0400	0.00284	ng/L
PCB 83 (BZ)	ND		0.0400	0.00239	ng/L
PCB 84 (BZ)	ND		0.0400	0.00271	ng/L
PCB 85 (BZ)	ND		0.0400	0.00197	ng/L
PCB 86 (BZ)	ND		0.0400	0.00201	ng/L
PCB 87 (BZ)	ND		0.0400	0.00201	ng/L
PCB 88 (BZ)	ND		0.0400	0.00242	ng/L
PCB 89 (BZ)	ND		0.0400	0.00263	ng/L
PCB 90 (BZ)	ND		0.0400	0.00205	ng/L
PCB 91 (BZ)	ND		0.0400	0.00242	ng/L
PCB 92 (BZ)	ND		0.0400	0.00232	ng/L
PCB 93 (BZ)	ND		0.0400	0.00233	ng/L
PCB 94 (BZ)	ND		0.0400	0.00262	ng/L
PCB 95 (BZ)	ND		0.0400	0.00247	ng/L
PCB 96 (BZ)	ND		0.0400	0.00196	ng/L
PCB 97 (BZ)	ND		0.0400	0.00201	ng/L
PCB 98 (BZ)	ND		0.0400	0.00226	ng/L
PCB 99 (BZ)	ND		0.0400	0.00239	ng/L
PCB 100 (BZ)	ND		0.0400	0.00233	ng/L
PCB 101 (BZ)	ND		0.0400	0.00205	ng/L
PCB 102 (BZ)	ND		0.0400	0.00226	ng/L
PCB 103 (BZ)	ND		0.0400	0.00230	ng/L
PCB 104 (BZ)	ND		0.0400	0.00175	ng/L
PCB 105 (BZ)	ND		0.0400	0.00124	ng/L
PCB 106 (BZ)	ND		0.0400	0.00133	ng/L
PCB 107 (BZ)/109 (IUPAC)	ND		0.0400	0.00129	ng/L
PCB 108 (BZ)/107 (IUPAC)	ND		0.0400	0.00136	ng/L

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H0B030000 - 272B **Work Order #....:** LT50H1AA **Matrix....:** WATER
Dilution Factor: 1
Prep Date....: 02/03/10 **Analysis Date....:** 02/10/10
Prep Batch # ....: 0034272
Initial Wgt/Vol : 1000 mL **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Jon M. Nordquist

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	ND	0.0400	0.00201	ng/L
PCB 110 (BZ)	ND	0.0400	0.00174	ng/L
PCB 111 (BZ)	ND	0.0400	0.00164	ng/L
PCB 112 (BZ)	ND	0.0400	0.00179	ng/L
PCB 113 (BZ)	ND	0.0400	0.00205	ng/L
PCB 114 (BZ)	ND	0.0400	0.00122	ng/L
PCB 115 (BZ)	ND	0.0400	0.00174	ng/L
PCB 116 (BZ)	ND	0.0400	0.00197	ng/L
PCB 117 (BZ)	ND	0.0400	0.00197	ng/L
PCB 118 (BZ)	ND	0.0400	0.00127	ng/L
PCB 119 (BZ)	ND	0.0400	0.00201	ng/L
PCB 120 (BZ)	ND	0.0400	0.00169	ng/L
PCB 121 (BZ)	ND	0.0400	0.00170	ng/L
PCB 122 (BZ)	ND	0.0400	0.00145	ng/L
PCB 123 (BZ)	ND	0.0400	0.00131	ng/L
PCB 124 (BZ)	ND	0.0400	0.00136	ng/L
PCB 125 (BZ)	ND	0.0400	0.00201	ng/L
PCB 126 (BZ)	ND	0.0400	0.00135	ng/L
PCB 127 (BZ)	ND	0.0400	0.00131	ng/L
PCB 128 (BZ)	ND	0.0400	0.00199	ng/L
PCB 129 (BZ)	ND	0.0400	0.00205	ng/L
PCB 130 (BZ)	ND	0.0400	0.00265	ng/L
PCB 131 (BZ)	ND	0.0400	0.00272	ng/L
PCB 132 (BZ)	ND	0.0400	0.00259	ng/L
PCB 133 (BZ)	ND	0.0400	0.00249	ng/L
PCB 134 (BZ)	ND	0.0400	0.00266	ng/L
PCB 135 (BZ)	ND	0.0400	0.00298	ng/L
PCB 136 (BZ)	ND	0.0400	0.00219	ng/L
PCB 137 (BZ)	ND	0.0400	0.00229	ng/L
PCB 138 (BZ)	ND	0.0400	0.00205	ng/L
PCB 139 (BZ)	ND	0.0400	0.00228	ng/L
PCB 140 (BZ)	ND	0.0400	0.00228	ng/L
PCB 141 (BZ)	ND	0.0400	0.00237	ng/L
PCB 142 (BZ)	ND	0.0400	0.00261	ng/L
PCB 143 (BZ)	ND	0.0400	0.00266	ng/L
PCB 144 (BZ)	ND	0.0400	0.00277	ng/L

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H0B030000 - 272B **Work Order #....:** LT50H1AA **Matrix....:** WATER
Dilution Factor: 1
Prep Date....: 02/03/10 **Analysis Date....:** 02/10/10
Prep Batch # ....: 0034272
Initial Wgt/Vol : 1000 mL **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Jon M. Nordquist

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND	0.0400	0.00209	ng/L
PCB 146 (BZ)	ND	0.0400	0.00216	ng/L
PCB 147 (BZ)	ND	0.0400	0.00221	ng/L
PCB 148 (BZ)	ND	0.0400	0.00293	ng/L
PCB 149 (BZ)	ND	0.0400	0.00221	ng/L
PCB 150 (BZ)	ND	0.0400	0.00204	ng/L
PCB 151 (BZ)	ND	0.0400	0.00298	ng/L
PCB 152 (BZ)	ND	0.0400	0.00208	ng/L
PCB 153 (BZ)	ND	0.0400	0.00178	ng/L
PCB 154 (BZ)	ND	0.0400	0.00243	ng/L
PCB 155 (BZ)	ND	0.0400	0.00198	ng/L
PCB 156 (BZ)	ND	0.0400	0.00206	ng/L
PCB 157 (BZ)	ND	0.0400	0.00206	ng/L
PCB 158 (BZ)	ND	0.0400	0.00162	ng/L
PCB 159 (BZ)	ND	0.0400	0.00174	ng/L
PCB 160 (BZ)	ND	0.0400	0.00205	ng/L
PCB 161 (BZ)	ND	0.0400	0.00173	ng/L
PCB 162 (BZ)	ND	0.0400	0.00172	ng/L
PCB 163 (BZ)	ND	0.0400	0.00205	ng/L
PCB 164 (BZ)	ND	0.0400	0.00181	ng/L
PCB 165 (BZ)	ND	0.0400	0.00190	ng/L
PCB 166 (BZ)	ND	0.0400	0.00199	ng/L
PCB 167 (BZ)	ND	0.0400	0.00131	ng/L
PCB 168 (BZ)	ND	0.0400	0.00178	ng/L
PCB 169 (BZ)	ND	0.0400	0.00142	ng/L
PCB 170 (BZ)	ND	0.0400	0.00203	ng/L
PCB 171 (BZ)	ND	0.0400	0.00212	ng/L
PCB 172 (BZ)	ND	0.0400	0.00210	ng/L
PCB 173 (BZ)	ND	0.0400	0.00212	ng/L
PCB 174 (BZ)	ND	0.0400	0.00196	ng/L
PCB 175 (BZ)	ND	0.0400	0.00188	ng/L
PCB 176 (BZ)	ND	0.0400	0.00144	ng/L
PCB 177 (BZ)	ND	0.0400	0.00201	ng/L
PCB 178 (BZ)	ND	0.0400	0.00204	ng/L
PCB 179 (BZ)	ND	0.0400	0.00151	ng/L
PCB 180 (BZ)	ND	0.0400	0.00160	ng/L

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H0B030000 - 272B **Work Order #....:** LT50H1AA **Matrix....:** WATER
Dilution Factor: 1
Prep Date....: 02/03/10 **Analysis Date....:** 02/10/10
Prep Batch # ....: 0034272
Initial Wgt/Vol : 1000 mL **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Jon M. Nordquist

PARAMETER	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND	0.0400	0.00188	ng/L
PCB 182 (BZ)	ND	0.0400	0.00183	ng/L
PCB 183 (BZ)	ND	0.0400	0.00187	ng/L
PCB 184 (BZ)	ND	0.0400	0.00155	ng/L
PCB 185 (BZ)	ND	0.0400	0.00187	ng/L
PCB 186 (BZ)	ND	0.0400	0.00151	ng/L
PCB 187 (BZ)	ND	0.0400	0.00175	ng/L
PCB 188 (BZ)	ND	0.0400	0.00141	ng/L
PCB 189 (BZ)	ND	0.0400	0.00117	ng/L
PCB 190 (BZ)	ND	0.0400	0.00146	ng/L
PCB 191 (BZ)	ND	0.0400	0.00143	ng/L
PCB 192 (BZ)	ND	0.0400	0.00160	ng/L
PCB 193 (BZ)	ND	0.0400	0.00160	ng/L
PCB 194 (BZ)	ND	0.0400	0.00162	ng/L
PCB 195 (BZ)	ND	0.0400	0.00176	ng/L
PCB 196 (BZ)	ND	0.0400	0.00211	ng/L
PCB 197 (BZ)	ND	0.0400	0.00157	ng/L
PCB 198 (BZ)	ND	0.0400	0.00218	ng/L
PCB 201 (BZ)/199 (IUPAC)	ND	0.0400	0.00218	ng/L
PCB 199 (BZ)/200 (IUPAC)	ND	0.0400	0.00154	ng/L
PCB 200 (BZ)/201 (IUPAC)	ND	0.0400	0.00149	ng/L
PCB 202 (BZ)	ND	0.0400	0.00168	ng/L
PCB 203 (BZ)	ND	0.0400	0.00195	ng/L
PCB 204 (BZ)	ND	0.0400	0.00164	ng/L
PCB 205 (BZ)	ND	0.0400	0.00136	ng/L
PCB 206 (BZ)	ND	0.0400	0.00193	ng/L
PCB 207 (BZ)	ND	0.0400	0.00140	ng/L
PCB 208 (BZ)	ND	0.0400	0.00147	ng/L
PCB 209 (BZ)	ND	0.0400	0.00251	ng/L

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 272B	**Work Order #....:**	LT50H1AA	**Matrix....:**	WATER
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	1000 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	61		30 - 140
13C12-PCB 3	56		30 - 140
13C12-PCB 4	75		30 - 140
13C12-PCB 15	70		30 - 140
13C12-PCB 19	71		30 - 140
13C12-PCB 37	78		30 - 140
13C12-PCB 54	68		30 - 140
13C12-PCB 77	84		30 - 140
13C12-PCB 81	81		30 - 140
13C12-PCB 104	71		30 - 140
13C12-PCB 105	88		30 - 140
13C12-PCB 114	87		30 - 140
13C12-PCB 118	84		30 - 140
13C12-PCB 123	85		30 - 140
13C12-PCB 126	87		30 - 140
13C12-PCB 155	86		30 - 140
13C12-PCB 156	92	C	30 - 140
13C12-PCB 157	92	C	30 - 140
13C12-PCB 167	88		30 - 140
13C12-PCB 169	82		30 - 140
13C12-PCB 170	99		30 - 140
13C12-PCB 188	97		30 - 140
13C12-PCB 189	98		30 - 140
13C12-PCB 202	115		30 - 140
13C12-PCB 205	104		30 - 140
13C12-PCB 206	106		30 - 140
13C12-PCB 208	100		30 - 140
13C12-PCB 209	101		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	85	40 - 125
13C12-PCB 111	92	40 - 125
13C12-PCB 178	87	40 - 125

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H0B030000 - 272B	**Work Order #....:**	LT50H1AA	**Matrix....:**	WATER
Dilution Factor:	1				
Prep Date....:	02/03/10	**Analysis Date....:**	02/10/10		
Prep Batch # ....:	0034272				
Initial Wgt/Vol :	1000 mL	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	H0B020462	**Work Order # ...:**	LT50H1AC-LCS	**Matrix .....:**	WATER
LCS Lot-Sample# :	H0B030000 - 272				
Prep Date .....:	02/03/10	**Analysis Date ..:**	02/10/10		
Prep Batch # ...:	0034272				
Dilution Factor :	1				
Analyst ID.....:	Jon M. Nordquist	**Instrument ID..:**	M1D	**Method.....:**	EPA-22 1668A
Initial Wgt/Vol:	1000 mL				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS
PCB 1 (BZ)	**1.00**	**0.847**	**ng/L**	**85**	**B**	**(50 - 150)**
PCB 3 (BZ)	**1.00**	**0.930**	**ng/L**	**93**		**(50 - 150)**
PCB 4 (BZ)	**1.00**	**0.938**	**ng/L**	**94**	**B**	**(50 - 150)**
PCB 15 (BZ)	**1.00**	**0.965**	**ng/L**	**96**	**B**	**(50 - 150)**
PCB 19 (BZ)	**1.00**	**1.05**	**ng/L**	**105**	**B**	**(50 - 150)**
PCB 37 (BZ)	**1.00**	**0.990**	**ng/L**	**99**	**B**	**(50 - 150)**
PCB 54 (BZ)	**1.00**	**0.970**	**ng/L**	**97**		**(50 - 150)**
PCB 77 (BZ)	**1.00**	**1.00**	**ng/L**	**100**		**(50 - 150)**
PCB 81 (BZ)	**1.00**	**1.00**	**ng/L**	**100**		**(50 - 150)**
PCB 104 (BZ)	**1.00**	**0.852**	**ng/L**	**85**		**(50 - 150)**
PCB 105 (BZ)	**1.00**	**1.08**	**ng/L**	**108**		**(50 - 150)**
PCB 114 (BZ)	**1.00**	**1.09**	**ng/L**	**109**		**(50 - 150)**
PCB 118 (BZ)	**1.00**	**1.11**	**ng/L**	**111**		**(50 - 150)**
PCB 123 (BZ)	**1.00**	**1.18**	**ng/L**	**118**		**(50 - 150)**
PCB 126 (BZ)	**1.00**	**1.06**	**ng/L**	**106**		**(50 - 150)**
PCB 155 (BZ)	**1.00**	**0.848**	**ng/L**	**85**		**(50 - 150)**
PCB 156 (BZ)	**2.00**	**2.16**	**ng/L**	**108**	**C**	**(50 - 150)**
PCB 157 (BZ)	**2.00**	**2.16**	**ng/L**	**108**	**C C156**	**(50 - 150)**
PCB 167 (BZ)	**1.00**	**1.10**	**ng/L**	**110**		**(50 - 150)**
PCB 169 (BZ)	**1.00**	**1.03**	**ng/L**	**103**		**(50 - 150)**
PCB 188 (BZ)	**1.00**	**0.901**	**ng/L**	**90**		**(50 - 150)**
PCB 189 (BZ)	**1.00**	**1.13**	**ng/L**	**113**		**(50 - 150)**
PCB 202 (BZ)	**1.00**	**0.947**	**ng/L**	**95**		**(50 - 150)**
PCB 205 (BZ)	**1.00**	**1.07**	**ng/L**	**107**		**(50 - 150)**
PCB 206 (BZ)	**1.00**	**0.980**	**ng/L**	**98**		**(50 - 150)**
PCB 208 (BZ)	**1.00**	**1.08**	**ng/L**	**108**		**(50 - 150)**
PCB 209 (BZ)	**1.00**	**1.15**	**ng/L**	**115**		**(50 - 150)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	57	(30 - 140)
13C12-PCB 3	56	(30 - 140)
13C12-PCB 4	74	(30 - 140)
13C12-PCB 15	76	(30 - 140)
13C12-PCB 19	75	(30 - 140)
13C12-PCB 37	90	(30 - 140)
13C12-PCB 54	75	(30 - 140)
13C12-PCB 77	94	(30 - 140)
13C12-PCB 81	91	(30 - 140)
13C12-PCB 104	78	(30 - 140)
13C12-PCB 105	91	(30 - 140)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: H0B020462 **Work Order # ...:** LT50H1AC-LCS **Matrix .....:** WATER
LCS Lot-Sample# : H0B030000 - 272

INTERNAL STANDARD	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 114	91		(30 - 140)
13C12-PCB 118	87		(30 - 140)
13C12-PCB 123	88		(30 - 140)
13C12-PCB 126	90		(30 - 140)
13C12-PCB 155	88		(30 - 140)
13C12-PCB 156	95	C	(30 - 140)
13C12-PCB 157	95	C	(30 - 140)
13C12-PCB 167	92		(30 - 140)
13C12-PCB 169	85		(30 - 140)
13C12-PCB 170	103		(30 - 140)
13C12-PCB 188	100		(30 - 140)
13C12-PCB 189	98		(30 - 140)
13C12-PCB 202	117		(30 - 140)
13C12-PCB 205	105		(30 - 140)
13C12-PCB 206	108		(30 - 140)
13C12-PCB 208	101		(30 - 140)
13C12-PCB 209	103		(30 - 140)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	87	(40 - 125)
13C12-PCB 111	94	(40 - 125)
13C12-PCB 178	92	(40 - 125)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

Appendix 7

Excerpt from the DOE NNSA Model Data Validation Procedure

U.S. Department of Energy NNSA Service Center

Model Data Validation Procedure

Revision 4.1

August 2006

Model Data Validation Procedure

Prepared for the U.S. Department of Energy
NNSA Service Center

By
Analytical Quality Associates, Inc.
616 Maxine, NE
Albuquerque, New Mexico 87123

Revision 4.1
August 2006

Analytical Quality Associates, Inc.

Table of Contents

1.0 PURPOSE AND DISCUSSION 1

2.0 SCOPE 1

3.0 PROCEDURE 1

3.1 General 1
3.1.1 Chain of Custody and Sample Receipt 1
3.1.2 Quality Control Exemptions 2
3.1.3 Holding Times 2
3.1.4 Preservation (Chemical and Temperature) 3
3.1.5 Calibration Points 4
3.1.6 Blank Hierarchy 4
3.1.7 Blank Normalization 5
3.1.8 Field Duplicates 5
3.1.9 Sample-Specific External Standard Recovery 5
3.1.10 Rounding Rules 6
3.1.11 Completeness 6
3.1.12 Special Laboratory Flags 12
3.1.12.1 "X" Flags 12
3.1.13 Analytical Methods 12
3.1.14 Calculations 12
3.1.15 Reanalysis - Both Sets of Results Reported 13
3.1.16 Manual Integration 13
3.1.17 Failed Batch QC 14
3.1.18 MS/MSD, LCS/Laboratory Control Sample Duplicate, and Replicates 14
3.1.19 MS/MSD 14
3.1.20 MS/MSD with Elevated Analyte Concentration Requirements 15
3.1.21 Blank Qualification with QC Failures 15
3.1.22 Initial Dilutions 15
3.1.23 Reporting Limit Verification 16
3.1.24 Filtered Samples 16
3.1.25 Sample Contamination 16

3.2 Procedure for GC/MS Validation 16
3.2.1 Instrument Tuning for GC/MS 17
3.2.2 Calibration 17
3.2.3 Calibration Verification 20
3.2.4 Blanks 22
3.2.5 Surrogate Recovery 24
3.2.6 Internal Standard Performance 26
3.2.7 MS/MSD 28
3.2.8 Replicate 29
3.2.9 LCS 30
3.2.10 Sample Carry-over 32
3.2.11 Dilutions 33
3.2.12 Mass Spectra Acceptability 34
3.2.13 TICs 35
3.2.14 Method-specific Analytical Requirements–Organic GC/MS 36

3.2.14.1 Method 8260B, VOC Analysis by GC/MS 36
3.2.14.2 Method 8270C, SVOC Analysis by GC/MS 36
3.2.14.3 Method 8280A, Polychlorinated Dioxins and Furans by GC/MS 37
3.2.14.4 Method 8290, Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS 39
3.2.14.5 Method TO-14, VOCs in Ambient Air using GC/MS 44
3.2.14.6 Method 1668A, Chlorinated Biphenyl Congeners 45
3.2.14.7 California Environmental Protection Agency Air Resources Board; Method 428, PCDD, PCDF, and PCB Emissions from Stationary Sources 50
3.2.14.8 Method 1613B, Tetra- through Octa-Chlorinated Dioxins and Furans by HRGC/HRMS 55

3.3 Procedure for GC and HPLC Validation 59
3.3.1 Calibration 59
3.3.2 Calibration Verification 61
3.3.3 Blanks 63
3.3.4 Surrogate Recovery 65
3.3.5 MS/MSD 66
3.3.6 Replicate 68
3.3.7 LCS 69
3.3.8 TAL Compound Identification 71
3.3.9 Sample Carry-over 71
3.3.10 Dilutions 72
3.3.11 Quantification and Confirmation 73
3.3.12 Method-specific Analytical Requirements–Organic GC/HPLC 75
3.3.12.1 Method 8081A, Organochlorine Pesticides by GC 75
3.3.12.2 Method 8082, PCB Aroclors by GC 77
3.3.12.3 Method 8151A, Chlorinated Herbicides by GC 77
3.3.12.4 Confirmation of Polynuclear Aromatic Hydrocarbons by Method 8310 78
3.3.12.5 Method 8015B, Non-halogenated Organics Using GC/Flame Ionization Detector (Gasoline Range Organics/Diesel Range Organics) 79

3.4 Procedure for LC/MS/MS Validation 79
3.4.1 Instrument Calibration for LC/MS/MS 80
3.4.2 Calibration Verification 82
3.4.3 Reporting Limit Verification 84
3.4.4 Blanks 85
3.4.5 Surrogate Recovery – HE analysis only 87
3.4.6 Internal Standard Performance 89
3.4.7 MS/MSD 90
3.4.8 Replicate 92
3.4.9 LCS 93
3.4.10 Sample Carry-over 94
3.4.11 Dilutions 95
3.4.12 Perchlorate Chlorine Ratios 96
3.4.13 Perchlorate Interference Check Standard 97

3.5 Procedure for Inorganic Data Validation 97
3.5.1 Initial Calibration 97
3.5.2 CCV 99
3.5.3 Blanks 100
3.5.4 MS 101
3.5.5 Replicate 102
3.5.6 LCS 103
3.5.7 Reporting Limit Verification 105
3.5.8 Method-specific analytical requirements (inorganic) 105
3.5.8.1 ICP-AES and ICP-MS Methods 105

3.5.8.2 Total Organic Carbon by SW-846 Method 9060 108
3.5.8.3 Total Cyanide and Cyanide Amenable to Chlorination 109
3.5.8.4 Total/Partial Inorganic Analyte Results 111

3.6 Procedure for Radiochemical Analyses Validation 113
3.6.1 Quantification 113
3.6.2 Blanks 114
3.6.3 Sample-Specific Chemical/Tracer Recovery 115
3.6.4 MS 115
3.6.5 Replicate 117
3.6.6 LCS 118
3.6.7 Instrument Control Charts 119
3.6.7.1 All Radiochemistry Instrumentation 120
3.6.7.2 Gas Proportional Instrumentation 120
3.6.7.3 Liquid Scintillation Instrumentation 121
3.6.7.4 Lucas Cell Instrumentation 121
3.6.7.5 Alpha Spectrometer Instrumentation 122
3.6.7.6 Gamma Spectroscopy Instrumentation 123
3.6.8 Method-Specific Analytical Requirements – Radiochemical 123
3.6.8.1 Gamma Spectroscopy 123
3.6.8.2 Gross Alpha Beta 124
3.6.8.3 Total/Partial Radiochemical Results 124

4.0 DATA VALIDATION REPORTS 125

5.0 DEFINITIONS 126

5.1 Data Qualifier Definitions 126

5.2 Sample Quantification Limits 127

5.3 Formulas 128

6.0 ACRONYMS 129

7.0 GLOSSARY OF TERMS 131

8.0 REASON CODES 135

9.0 REFERENCES 137

APPENDICES
A Volatile Organic Holding Times
B Sample Preservation and Holding Times
C Laboratory Control Limits
D Mass Spectra Acceptability
E Calibration Solutions for Method 8280A
F Calibration Verification Solution for Method 8280A
G Criteria for Isotopic Ratio Measurements for PCDDs/PCDFs for Method 8280A

H Theoretical Ion Abundance Ratios and Their Acceptance Limits for PCDDs and PCDFs for Method 8290
I Theoretical Ion Abundance Ratios and QC Limits for Method 1668A
J QC Acceptance Criteria for CBs in Calibration Verification, Initial Precision and Recovery, OPR, and Samples for Method 1668A
K Composition of Initial PCDD/PCDF Calibration Solution for Low Resolution Mass Spectrometry for Method 428
L Composition of Initial PCDD/PCDF Calibration Solution for High Resolution Mass Spectrometry for Method 428
M Concentrations of PCBs in Working GC/MS Calibration Standards for Method 428
N Ions Specified for Selected Ion Monitoring for PCDD and PCDF and Isotopic Ratios for Method 428
O Quantitation and Confirmation Ions for PCB Internal Standards and Recovery Standards for Method 428
P Theoretical Ion Abundance Ratios and QC Limits for Method 1613B
Q Method 1613B Acceptance Criteria for Performance Tests When all PCDDs/PCDFs are Tested
R RT References, Quantitation References, RRTs, and Minimum Levels for PCDDs and PCDFs for Method 1613B
S Method 1613B Labeled Compound Recovery in Samples Whell all PCDDs/PCDFs are Tested
T Diode Aray Guidelines

3.2.1 Instrument Tuning for GC/MS

Tuning and performance criteria are established to ensure mass resolution; identification; and, to some degree, sensitivity. These criteria are not sample-specific. Conformance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

Criteria: The GC/MS tune shall be evaluated daily. The relative abundance criteria listed in the appropriate method must be met.

Evaluation	Action
If tunes were not run daily or if all abundance criteria were not met,	contact the laboratory for immediate corrective action and use professional judgement to determine which data should be used. The following actions are suggested: qualify all associated detects as "J" and all associated non-detects as "UJ."
If multiple QC failures also occurred,	qualify all results as "R."

3.2.2 Calibration

Initial Calibration

Compliance requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data for compounds on the TAL. Initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of the analytical run and of producing a linear curve. In the absence of, or in addition to, method-specific calibration acceptance criteria, the following general calibration acceptance criteria should be applied.

The laboratory may establish a calibration curve using either the linear regression (linear curve) approach or the average response factor (RF) approach. If both approaches are used to quantify and report target analytes within the same data package, calibration is to be assessed on an analyte-by-analyte basis.

Criteria: GC/MS instrument calibration shall be performed using a minimum of five calibration standards unless otherwise specified by the method. If calibration curves are used, five standards are required for a linear (first-order) calibration model, six standards are required for a quadratic (second-order) model, and seven standards are required for a third-order polynomial. Higher-order curves (second order and higher) should not normally be used. If the laboratory uses a higher-order equation to establish a calibration curve, it should be evaluated for the appropriate application.

Evaluation	Action
If an insufficient number of calibration standards was used,	qualify all associated detects as "J" and all associated non-detects as "UJ."

RFs

Criteria: RFs are a measure of the slope of the calibration relationship and assume that the curve passes through the origin. Under ideal conditions, the factors will not vary with the concentration of the standard that is injected into the instrument. In practice, some variation is to be expected.

When the variation, measured as the percent relative standard deviation (%RSD), is ≤ 15%, the use of the linear model is appropriate and the calibration curve can be assumed to be linear and to pass through the origin. This criteria is derived from SW-846 GC/MS Methods 8260B and 8270C.

As a general rule, the amount of internal standard should produce an instrument response (e.g., area counts) that is no more than 100X that produced by the lowest concentration of the least responsive target compound associated with the internal standard. This should result in a minimum RF of no <0.01 for the least responsive target compound.

The %RSD for the RFs obtained from the five initial calibration standards must be ≤15%, and the average RF shall be ≥ the method-specified minimum RF for each compound. Compounds without specified minimum RFs shall be ≥0.05.

Evaluation	Action
If the average RF for any target compound is < the specified minimum RF, or <0.05 if no minimum is specified,	qualify all associated detects as "J" and all associated non-detects as "UJ" if the average RF is ≥0.01 and as "R" if the average RF is <0.01.
If the %RSD for any target compound is...	
>15% but ≤40%,	qualify all associated detects as "J" and, if any other calibration criteria have been exceeded for that compound, qualify all associated non-detects as "UJ."
>40% but ≤60%,	qualify all associated detects as "J" and all associated non-detects as "UJ."
>60%,	qualify all associated detects as "J" and all associated non-detects as "R."

Linear Curves

Criteria: The coefficient of determination (r^2) of the initial calibration curve shall be ≥0.99 and have a slope ≥ the method-specified minimum RF for each compound. Compounds without method-specified minimum RFs shall have a slope ≥0.05. The absolute value of the intercept shall be ≤3X the MDL.

NOTE: The intercept reported in the instrument calibration report may not be in appropriate units. When the intercept is not in appropriate units, the instrument conversion routine may be needed to evaluate the intercept.

For calibrations using the Target software the intercept in concentration units is:

Concentration Intercept = (b)(CIS)

Where:
b = reported intercept
CIS = concentration of internal standard (on-column conc. on quant. report)

Evaluation	Action
If the slope for any target compound is < the minimum RF, or <0.05 if no minimum is specified,	qualify all associated detects as "J" and all associated non-detects as "UJ" if the slope is ≥0.01 and as "R" if the slope is <0.01.
If the r^2 for any target compound is...	
<0.99 but ≥0.90,	qualify all associated detects as "J" and, if any other calibration criteria have been exceeded for that compound, qualify all associated non-detects as "UJ."
<0.90 but ≥0.80,	qualify all associated detects as "J" and all associated non-detects as "UJ."
<0.80,	qualify all associated detects as "J" and all associated non-detects as "R."
If the intercept for any target compound is positive and >3X the MDL,	qualify all associated detects <3X the intercept as "J+."
If the intercept for any target compound is negative with an absolute value >3X the MDL,	qualify all associated detects <3X the absolute value of the intercept as "J-" and all associated non-detects as "R."

3.2.3 Calibration Verification

Compliance requirements for satisfactory initial and continuing instrument calibration verification are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data for compounds on the TAL. Initial calibration verification (ICV) independently verifies the calibration, and continuing calibration verification (CCV) establishes the 12-hour relative RFs on which the quantitations are based and checks satisfactory performance of the instrument on a day-to-day basis.

Criteria: An ICV standard must be analyzed immediately following an initial calibration.

The ICV standard analysis results are not required to be reported in the data package unless the samples in the SDG were analyzed after the initial calibration standard but before a CCV standard analysis was performed. In this case, the ICV %D is assessed according to the calibration verification criteria described below for the associated samples. If a CCV is analyzed prior to samples and ICV data are also reported in the package, both the ICV %D and the appropriate CCV %D are to be assessed as described below. If both ICV %D and CCV %D infractions occur, the worst infraction should be evaluated for result qualification.

A CCV standard must be analyzed:

1. **if analysis continues for longer than 12 hours, and**
2. **at the beginning of each additional 12-hour period.**

The laboratory is allowed to perform corrective action and reanalyze the CCV once after a failure. If more than two CCVs were analyzed to obtain a passing CCV, then the calibration was not verified and the calibration verification frequency criteria were not met.

Evaluation	Action
If the ICV and CCV standards were not analyzed at the proper frequency, or if either a required ICV or CCV was not analyzed, or if all target compounds were not present in any ICV or CCV standard,	qualify all associated detects as “J” and all associated non-detects as “UJ.”
If all required ICVs and CCVs were not analyzed,	qualify all associated detects as “J” and all associated non-detects as “R.”

RFs

Criteria: The %D between the ICV and/or CCV RFs and the average RFs obtained from the initial calibration shall be calculated according to the formula in Section 5.3 and must be ≤20%.

Evaluation	Action
If the %D was reported with the wrong sign (e.g., +%D for a negative bias),	document the occurrence in the data validation report and assess any infractions using the correct sign.
If the %D between an initial calibration RF and an ICV or CCV RF for any target compound is...	
>20% and positive (high bias),	qualify all associated detects as "J+."
>20% but ≤40% and negative (low bias),	qualify all associated detects as "J-" and, if any other calibration criteria have been exceeded for that compound, qualify all associated non-detects as "UJ."
>40% but ≤60% and negative,	qualify all associated detects as "J-" and all associated non-detects as "UJ."
>60% and negative,	qualify all associated detects as "J-" and all associated non-detects as "R."

Linear Curves

Criteria: The %D (see Section 5.3) between the ICV and/or CCV standard concentrations and their true values must be ≤20%.

Evaluation	Action
If the %D was reported with the wrong sign (e.g., +%D for negative bias),	document the occurrence in the data validation report and assess any infractions using the correct sign.
If the %D between the measured ICV and/or CCV concentations and their true values for any target compound is...	
>20% and positive (high bias),	qualify all associated detects as "J+."
>20% but ≤40% and negative (low bias),	qualify all associated detects as "J-" and, if any other calibration criteria have been exceeded for that compound, qualify all associated non-detects as "UJ."
>40% but ≤60% and negative,	qualify all associated detects as "J-" and all associated non-detects as "UJ."
>60% and negative,	qualify all associated detects as "J-" and all associated non-detects as "R."

3.2.4 Blanks

The purpose of laboratory (or field) blank analysis is to determine the essence and magnitude of contamination resulting from laboratory (or field) activities.

The criteria for evaluation of blanks apply to any blank associated with the samples and include MBs and, if submitted, EBs, FBs, and TBs. Action in the case of unsuitable blank results depends on the circumstances and origin of the blank. In instances where more than one blank is associated with a given sample, qualification should be based upon a comparison with the associated blank having the highest concentration of a contaminant. For purposes of evaluating multiple blanks, each preparation batch may be considered an independent event in evaluating MBs and each sampling event may be considered an independent event for evaluating FBs, EBs, and TBs.

The result for any compound detected in the sample (other than those listed below) that was also detected in any associated blank must be qualified when the sample concentration is <5X the blank concentration. For the following compounds, the results are qualified when the sample concentration is <10X the blank concentration.

Common laboratory contaminants:

- Methylene chloride
- Acetone
- Toluene
- 2-Butanone
- Common phthalate esters (e.g., bis[2-ethylhexyl]phthalate and di-n-octyl phthalate)

Criteria: The concentration of each target analyte found in the blank must be < the associated MDL. The sample results must not be corrected by subtracting any blank value. If QC problems with any blank exist, all data associated with the case must be carefully evaluated to determine whether there is an inherent variability in the data for the case or if the problem is an isolated occurrence not affecting other data.

Evaluation	Action
If a compound found in a blank is also found in a field sample,	qualify the sample result for that compound in accordance with the scenarios given below.
If gross contamination (e.g., saturated peaks by GC/MS) exists,	qualify results for all affected compounds as “R” due to interference.

If inordinate numbers of target compounds are found at low levels in the blank(s),	discuss the presence of those compounds in the data validation report as it may be indicative of a problem at the laboratory. **NOTE**: Similar consideration should be given to TICs that are found in both the sample and its associated blank(s) (see Section 3.2.13).

The following are examples of application of the blank qualification guidelines. Certain circumstances may warrant deviations from these guidelines.

Scenario

The sample result is > the PQL but is <5X or 10X the blank result.

Qualification

Rule	10X	5X
Blank Result	7	7
PQL	5	5
Sample Result	30	30
Qualified Sample Result	30U	30U

In the example for the 10X rule, qualify sample results <70 (or 10X7) as non-detect ("U") at the reported value. In the case of the 5X rule, qualify sample results <35 (or 5X7) as non-detect ("U") at the reported value.

Scenario

The sample result is < the PQL and is also <5X or 10X the blank result.

Qualification

Rule	10X	5X
Blank Result	6	6
PQL	5	5
Sample Result	4J	4J
Qualified Sample Result	5U	5U

In the example for the 10X rule, qualify sample results <60 (or 10X6) as non-detect ("U") at the PQL. In the case of the 5X rule, qualify sample results <30 (or 5X6) as non-detect ("U") at the PQL.

NOTE: Data are not reported as 4U, as this would be reported as a detection limit below the PQL.

The PQL may not be reported and it may not be possible to determine the PQL from the data. In this case, qualify the contaminated sample result as "U" at 5X (or 10X) the blank concentration.

NOTE: In some instances, the laboratory may adjust the MDLs to account for low-level common laboratory contaminants. In these cases, it may be possible to have a low level detection in a blank that would be considered a non-detect when compared to the adjusted MDL, resulting in the blank data being reported as a non-detect (PQL U). This may result in sample results that are above the MDL but <5X or 10X the actual blank concentration not being qualified. In instances where it is believed that there is low-level contamination of common laboratory contaminants that are not identified in the blank, the sample results may be qualified as "NJ" based on professional judgment and narrated in the summary.

Scenario

The sample result is > the PQL and is also >5X or 10X the blank result.

Qualification

Rule	10X	5X
Blank Result	10	10
PQL	5	5
Sample Result	120	120
Unqualified Sample Result	120	120

For both the 10X and 5X rules, the sample result exceeded the adjusted blank result of 100 (or 10X10) and 50 (or 5X10), respectively. Therefore, this sample result is not qualified.

3.2.5 Surrogate Recovery

Laboratory performance for individual samples is evaluated by means of surrogate spikes. All samples are spiked with surrogate compounds prior to sample preparation. The evaluation of the results of these surrogate spikes is not necessarily straightforward. The sample itself may produce effects due to such factors as interference and high concentrations of analytes. Because the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the review and validation of data based on specific surrogate results is frequently subjective and demands analytical experience and professional judgment. In addition, surrogate recoveries can be influenced by the success in recoveries of the internal standards. The evaluation of surrogate recoveries and internal standards should be performed concurrently. Accordingly, this section consists primarily of guidelines, in some cases with several optional approaches suggested.

Criteria: Sample and blank surrogate recoveries must be within limits specified by the laboratory. Surrogate compound recoveries shall be calculated using the procedure described in SW-846 Method 8000B. Reported recoveries shall be accompanied by the applicable acceptance limits. No qualification with respect to surrogate recovery is placed on data unless one or more of the following occurs:

1. **At least two surrogates are out of specification in the base/neutral fraction or acid fraction (SVOC analysis).**
2. **One surrogate is out of specification in the volatile fraction (VOC analysis).**
3. **Any surrogate has a recovery <10%.**

Under these three conditions, there should be a reanalysis.

When there are unacceptable surrogate recoveries followed by successful reanalysis, the laboratories are required to report only the successful analysis.

Results from spiked or replicate QC samples that have surrogate recoveries <10% cannot be used to evaluate associated sample results. Sample results should be qualified for lack of accuracy and/or precision data, as applicable, if specified by the program.

Evaluation	Action
If the surrogate recovery acceptance criteria were not reported in the data package,	request amended data from the laboratory.
If, based on professional judgment, the laboratory's internal acceptance criteria are excessively wide or biased,	notify the program manager.
If an initial dilution was performed on any sample and at least one surrogate recovery is < the lower acceptance limit but ≥10%, or all surrogate recoveries are <10% and the results for one or more compounds are ≥ the PQL,	qualify all detects as "J-" and all associated non-detects as "UJ."
If an initial dilution was performed on any sample, all surrogate recoveries are <10%, and all results are non-detect,	qualify all associated sample results as "R."
If there are two or more analyses for a particular fraction at the same dilution,	determine which analysis contains the best data to report using the considerations below, qualify all data from the rejected analysis as "R," and document the reason for rejecting the data from one analysis in the data validation report. Considerations should include: 1. surrogate recovery (marginal vs. gross deviation);

	2. holding times; 3. comparison of the values of the target analytes reported in each fraction; and 4. performance of internal standards.
For surrogate recoveries out of specification, the following approaches are suggested based on a review of all data from the batch, especially considering the apparent complexity of the sample matrix:	
If at least one surrogate in the volatile fraction, two surrogates in the base/neutral fraction, or two surrogates in the acid fraction are out of specification high,	qualify all detects for that fraction as "J+."
If at least one surrogate in the volatile fraction, two surrogates in the base/neutral fraction, or two surrogates in the acid fraction are out of specification low but the recoveries are ≥10%,	qualify all detects for that fraction as "J-" and all non-detects for that fraction as "UJ."
If any surrogate recovery in a fraction is <10%,	qualify all detects for that fraction as "J-" and all non-detects for that fraction as "R."

Criteria: In the case of a blank analysis with surrogates out of specification, special consideration must be given to the validity of associated sample data. The basic concern is whether the blank problems represent an isolated problem with the blank alone or whether there is a fundamental problem with the analytical process.

If one or more samples in the batch show acceptable surrogate recoveries, the blank problem may be considered an isolated occurrence. However, even if this judgment allows some use of the affected data, analytical problems remain that must be corrected by the laboratory.

Evaluation	Action
If surrogate recovery in the blank does not meet acceptance criteria,	all detects < the PQL in all samples associated with the blank may be qualified as "J" and all non-detects in all samples associated with the blank may be qualified as "UJ."

3.2.6 Internal Standard Performance

Internal standard criteria ensure that GC/MS sensitivity and response are stable and acceptable during each analysis.

Criteria: Sample and blank internal standard results must be within limits given in the specific SW-846 method.

Internal standard area counts must not vary by more than a factor of two (50% to 200%) from the average of those obtained from the calibration standards.

The RT of the internal standard must not vary by more than ±30 seconds from that of the associated CCV standard.

When qualification of sample results is warranted due to failure of an internal standard to meet RT or area count acceptance criteria, results of all target compounds associated with that internal standard are qualified.

Evaluation	Action
If there are two or more analyses for a particular fraction,	determine which analysis contains the best data to report using the considerations below, qualify all data from the rejected analysis as "R," and document the reason for rejecting the data from one analysis in the data validation report. Considerations should include: 1. magnitude of the RT shift; 2. holding times; 3. comparison of the values of the target compounds reported in each fraction; and 4. surrogate recovery.
If any internal standard area count is <50% of the average of that obtained from the calibration standards,	qualify all associated detects as "J+" and all associated non-detects as "UJ." Non-detects may be qualified as "R" based on professional judgment if the internal standard area counts are <25% of that of the average obtained from the calibration standards. **NOTE**: If extremely low area counts are reported or if performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated.
If the internal standard area counts are >200% of the average of that obtained from the calibration standards,	qualify all associated detects as "J-" and all associated non-detects as "UJ."
If the internal standard RT varies by more than ±30 seconds from that of the associated CCV standard,	qualify all associated detects as "N" or "R" and all associated non-detects as "R."

3.2.7 MS/MSD

Data for MS/MSD are generated to determine long-term precision and accuracy of the analytical method on samples of various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

Criteria: **The MS/MSD data shall not be used to evaluate associated field sample results unless the MS/MSD sample was from the same client and of similar matrix.**

MS and MSD samples shall be analyzed at a frequency of once per data package, once per 20 samples of similar matrix, or once per sample matrix, whichever is more frequent.

The laboratory shall not use FBs, EBs, or TBs to satisfy these requirements if the laboratory can identify these blanks.

The MS and MSD analyses must meet all sample analysis acceptance criteria. An effort to determine to what extent the results of the MS/MSD affect the associated data should be made. This determination should be made considering the MS/MSD sample matrix, the surrogate recoveries, and the LCS results.

Unless otherwise stated in the specific method, the MS and MSD accuracy and precision acceptance criteria shall be those calculated by the laboratory using the procedure given in SW-846 Method 8000B. If the acceptance criteria are not reported, recovery limits of 70% to 130% and an RPD of up to 30% should be used as the criteria. It may be appropriate to use wider default recovery acceptance criteria for SVOC analysis based on professional judgment. For solid and waste samples, it may be appropriate to accept an RPD of up to 40% based on professional judgment.

The MS and MSD %R must be within the acceptance limits unless the sample concentration is >4X the spike concentration (see Section 3.1.20).

Professional judgment should be used to determine if MS/MSD failure warrants qualification of only the results for the failed compounds or if results for all the compounds associated with the failed MS compound and its associated internal standard are affected. Generally, unless evidence exists to warrant qualification of other compounds, only the compounds in the MS spiking mixture shall be qualified.

For programs that require application of one final qualifier to sample results, if a recovery (accuracy) infraction is identified in one or both of the MS samples along with an RPD (precision) infraction between the MS and MSD, the sample is qualified for the accuracy infraction. For example, if a compound has low MS recovery and the RPD is not within criteria, the data are qualified as "J-."

Evaluation	Action
If the program requires MS/MSD analysis for all matrices and all target compounds and the MS sample was from another client or of a dissimilar matrix; the frequency of the MS/MSD did not meet specified criteria; no MS/MSD was analyzed; or an FB, EB, or TB was used for MS analysis,	qualify all detects as "J" and all non-detects as "UJ."
If no other measure of precision (i.e., LCSD or replicate) is available,	qualify all detects as "J" and all non-detects as "UJ."
If the surrogate, internal standard, and LCS recoveries are within the required acceptance criteria and...	
either the MS or MSD recovery for any target compound is > the upper acceptance limit,	qualify all associated detects as "J+."
either the MS or MSD recovery for any target compound is < the lower acceptance limit,	qualify all associated detects as "J-" and all associated non-detects as "UJ" if the recovery is ≥10% and as "R" if the recovery is <10%.
If the RPD for any target compound does not meet the acceptance criteria or recoveries fail both high and low,	qualify all associated detects as "J" and all associated non-detects as "UJ."

3.2.8 Replicate

Replicate analyses are indicators of laboratory precision based on each sample matrix. If a replicate was analyzed instead of an MSD, the following criteria are applied. If insufficient sample was submitted to analyze an MS/MSD or replicate, the laboratory may analyze an LCSD to measure precision. LCSD precision shall be assessed as described in Section 3.2.7.

Criteria: **Replicate samples shall be analyzed at a frequency of once per data package, once per 20 samples of similar matrix, or once per sample matrix, whichever is more frequent. All sample acceptance criteria must be met in the replicate analysis.**

Samples identified as FBs, EBs, or TBs should not be used for replicate sample analysis.

Unless otherwise stated in the specific method, the replicate precision acceptance criteria shall be those calculated by the laboratory using the procedure given in SW-846 Method 8000B. When no laboratory-derived acceptance limits are reported, an RPD acceptance criteria of 30% shall be used for sample values ≥5X the PQL. For solid and waste samples, it may be appropriate to accept an RPD of up to 40% based on professional judgment.

An acceptance criteria of ± the PQL shall be used for sample values <5X the PQL, including the case when only one of the replicate sample values is <5X the PQL.

No precision criteria apply to samples with concentrations < the PQL.

Evaluation	Action
If no replicate sample, no MSD, and no LCSD were analyzed for each matrix or for each data package,	qualify all associated detects of the same matrix as "J" and all associated non-detects of the same matrix as "UJ."
If an FB, EB, or TB was used for the replicate analysis and no MSD or LCSD was analyzed,	qualify all associated detects of the same matrix as "J" and all associated non-detects of the same matrix as "UJ."
If the original result and replicate result for any target compound are both ≥5X the PQL and the RPD exceeds the appropriate acceptance limit,	qualify all associated detects of the same matrix as "J" and all associated non-detects of the same matrix as "UJ."
If the original and/or replicate result for any target compound is <5X the PQL and the difference between the original result and the replicate result is > the PQL,	qualify all associated detects of the same matrix as "J" and all associated non-detects of the same matrix as "UJ."

3.2.9 LCS

Data for LCSs are generated to provide information on the accuracy of the analytical method and the overall laboratory performance, including sample preparation.

Criteria: **An LCS should be analyzed for all methods at a frequency of once per data package, once per matrix, or once per 20 analytical samples, whichever is most frequent. The LCS should have recoveries for all target analytes; however, for very large analyte lists or for known poor performers, the laboratory may have received an exemption for one or more analytes.**

The LCS must meet all sample acceptance criteria. If surrogate and internal standard recovery acceptance criteria are not met in the LCS analysis, the LCS must be reanalyzed. The LCS should meet all method-specific LCS requirements and acceptance criteria. If the recovery acceptance criteria are not reported, the criteria in Appendix C or recovery limits of 70% to 130% should be used as the criteria.

If the laboratory analyzed an LCS/LCSD as a measure of precision, both the LCS and LCSD must meet recovery acceptance criteria.

General laboratory precision and accuracy can be evaluated using the LCS acceptance criteria and the interlaboratory comparison data given in Appendix C. Individual LCS recoveries may be evaluated against the criteria in Appendix C if the laboratory's criteria are significantly different from those in the tables.

For volatile organics in an aqueous matrix, a successful second source CCV meets the LCS requirements.

Evaluation	Action
If, based on professional judgment, the laboratory's internal acceptance criteria are excessively wide or acceptable recoveries are significantly biased,	notify the program manager.
If the frequency of the LCS did not meet the specified criteria,	qualify all associated detects as "J" and all associated non-detects as "UJ."
If results are reported for target compounds that are not in the LCS,	detects for those compounds may be qualified as "J" and non-detects for those compounds may be qualified as "UJ" based on professional judgment. Compounds missing under an exemption may be qualified based on professional judgment.

If the LCS criteria were not met and reanalysis was not performed, then the laboratory performance and method accuracy are in question. Professional judgment should be used to determine if data should be qualified for all target compounds or just those compounds associated with the failed LCS compound and its associated internal standard. The following may be used as guidance in qualifying data.

If a full or large TAL LCS is analyzed, the following criteria may be used for LCS recoveries that fall outside the reported acceptance criteria but are >10%:

70 to 74 compounds	≤5 LCS results fall outside acceptance criteria - no qualification
60 to 69 compounds	≤4 LCS results fall outside acceptance criteria - no qualification
50 to 59 compounds	≤3 LCS results fall outside acceptance criteria - no qualification
40 to 49 compounds	≤2 LCS results fall outside acceptance criteria - no qualification

30 to 39 compounds	≤1 LCS result falls outside acceptance criteria - no qualification
< 30 compounds	No LCS results fall outside acceptance criteria - no qualification

Evaluation	Action
If the LCS recovery is > the upper acceptance limit,	qualify all associated detects as "J+."
If the LCS recovery is < the lower acceptance limit,	qualify all associated detects as "J-" and all associated non-detects as "UJ" if the recovery is ≥10% and as "R" if the recovery is <10%.
If recoveries of more than half of the compounds in the LCS analysis are below the acceptance range,	qualify all detects as "J-" and all non-detects as "UJ" if the failures are marginally low and as "R" if the recoveries are significantly below acceptance limits. **NOTE**: If recoveries of more than half of the compounds in the LCS analysis are below the acceptance range, the laboratory has not shown that it can actually meet program required detection limits.
If recoveries of more than half of the compounds in the LCS analysis are above the acceptance range,	qualify all detects as "J+."
If recoveries of more than half of the compounds in the LCS analysis are outside the acceptance range, both above and below, or if an LCS/LCSD pair was analyzed and recoveries of any target compound are both above and below acceptance criteria,	qualify all detects in all associated samples as "J" and all non-detects in all associated samples as "UJ."

3.2.10 Sample Carry-over

Sample carry-over may occur when a high-concentration sample is analyzed immediately prior to another field sample. Steps must be taken to avoid introduction of false positive results in the second sample analysis due to instrument contamination.

Criteria: The absence of sample carry-over must be determined and verified. If examination of the run logs indicates that any sample in the analytical run of interest required dilution and there is no documentation of a rinse or blank analysis immediately following the original undiluted analysis, then sample carry-over may be suspected in the subsequent sample.

Evaluation	Action
If any target compound found in a sample requiring dilution exceeded the high calibration standard and was also found in the following sample at a concentration <5X the PQL,	qualify the result for that compound in the second sample as "R" or "NJ" based on professional judgment.
If no data are available for the sample that required dilution and the laboratory has not documented that carry-over was evaluated, and any compound was also found in the following sample at a concentration <5X the PQL,	qualify the result for that compound in the second sample as "N."

3.2.11 Dilutions

Criteria: The PQLs must be adjusted to reflect all sample dilutions, concentrations, splits, clean-up activities, and dry weight factors that are not accounted for by the method.

Samples must be diluted and reanalyzed when any analyte exceeds the calibration range. Data from the original sample analysis should be included when any sample requires dilution due to one or more compounds exceeding the calibration range. The original undiluted results document the actual MDLs for non-detects.

Evaluation	Action
If the PQLs have not been properly adjusted,	request an amended report from the laboratory.
If an initial dilution was required because of expected high concentrations of non-target analytes or because one or more target analytes were expected to greatly exceed the instrument working range and the laboratory was not able to analyze the undiluted sample,	note the dilution and elevated MDLs in the data validation report.
If any target compound exceeded the calibration range and...	
the original undiluted sample result was reported,	qualify all detects from the undiluted analysis that exceeded the calibration range as "J."
the sample was diluted and reanalyzed, and the diluted sample data were reported,	qualify all non-detects from the diluted analysis as "UJ."
the original undiluted sample data were not provided,	request this information from the laboratory.

If data from the original sample analysis are unavailable,	refer to Section 3.2.5 for assessment of initially diluted samples with low surrogate recovery.

Criteria: The laboratory shall strive to make dilutions in such a way that the final concentration is measured in the mid-range of the calibration curve and that results are not reported from measurements below the lowest concentration standard.

Evaluation	Action
If the instrument response (reported result/dilution factor) for a diluted sample is < that of the lowest concentration standard,	qualify all associated detects from the diluted analysis as "J."

Criteria: The extraction efficiency for extremely high concentrations of analytes has generally not been determined for most methods. If the analysis requires an extraction and a dilution of >100,000:1, the efficiency of the extraction may be suspect.

Evaluation	Action
If a dilution of >100,000:1 was required,	qualify all associated detects as "J-."

3.2.12 Mass Spectra Acceptability

Mass spectra review is typically outside the scope of routine data validation. When mass spectra review is required by the program, it must be performed by a validator experienced in the interpretation of mass spectra.

The laboratory is to identify mass spectra using either the National Bureau of Standards (NBS) /EPA/Mass Spectrometry Data Centre (MSDC) library or the National Institute of Standards and Technology (NIST)/EPA/National Institutes of Health (NIH) library. The laboratory must identify and document peaks and reference spectra for all target compounds with concentrations above the MDL. While it is not the function of the validator to determine if the analyst correctly identified a compound, an evaluation of how well the analyte peak matches the reference spectra may be requested. To evaluate analyte spectra, the guidelines in Appendix D shall be used.

Evaluation	Action
If the sample spectrum does not match the reference spectrum, the EICP RT or RRT does not meet criteria, or several guideline failures were observed,	qualify all associated results as "R."

If the analyte is not identifiable due to gross interference or apparent instrument instability,	qualify all associated results as "R."
If the analyte was misidentified by the laboratory,	request an amended report from the laboratory.
If identification of the analyte was hampered by interferences such that it is not certain that a positive identification could be made,	qualify all associated results as "N" based on professional judgment or request additional data from the laboratory.

3.2.13 TICs

Chromatographic peaks that are not target analytes, surrogates, or internal standards are potential TICs.

Criteria: **For each sample, the laboratory may be requested to conduct a mass spectral search of either the NBS/EPA/MSDC library or the NIST/EPA/NIH library. The laboratory may report the possible identity of up to 20 of the largest VOC fraction peaks and the 20 largest SVOC fraction peaks that are not surrogate, internal standard, or target compounds, but that have an area/height >10% of the area/height of the nearest internal standard.**

It should be noted that common laboratory artifacts/contaminants and their sources (i.e., aldol products, solvent preservatives/reagent contaminants, etc.) may be present in blanks and not reported as sample TICs.

Examples:

- **Common laboratory contaminants: CO_2 (m/z 44), siloxanes (m/z73), diethyl ether, hexane, certain freons (e.g., 1,1,2-trichloro-1,2,2-trifluoroethane or fluoro-trichloromethane), phthalates at levels <100 micrograms per liter (µg/L) or 4,000 micrograms per kilogram.**
- **Solvent preservatives: cyclohexene is a methylene chloride preservative. Related by-products include cyclohexanone, cyclohexenone, cyclohexanol, cyclohexenol, chlorocyclohexene, and chlorocyclohexanol.**
- **Aldol reaction products of acetone include 4-hydroxy-4-methyl-2-pentanone, 4-methyl-2-penten-2-one, and 5,5-dimethyl-2(5H)-furanone.**

Evaluation	Action
If a low-level non-target compound that is a common artifact or laboratory contaminant is detected in a sample,	verify that TIC peaks present in samples are not found in blanks. Blank chromatograms should be examined for peaks that are <10% of the internal standard height but that are present in the sample chromatogram at similar RRTs.

If sample TIC results are not sufficiently above the level in the blank and the results are reported,	the results may be qualified as "R" (dilutions and sample size must be taken into account when comparing the amounts present in blanks and samples).
If a result is identified as a TIC,	qualify that result as "NJ."
If a compound is not found in any blanks but is a suspected artifact or common laboratory contaminant,	identify the compound as such in the data validation report. Compounds that are suspected artifacts or common laboratory contaminants may be qualified as "R" based on professional judgment.

It should be noted that common laboratory calibration practices, along with limitations of some commercial software, could result in compounds being detected and not reported on either the Form I or the TIC summary report. All quantitation reports shall be reviewed to verify that all detected compounds are reported whenever a TIC summary report is included.

Evaluation	Action
If a compound is identified on the quantitation report but is not reported as a TAL detect or as a TIC,	request a corrected report from the laboratory.

3.2.14 Method-specific Analytical Requirements–Organic GC/MS

The additional analytical requirements addressed below are organized by method. These requirements should be evaluated if the level of deliverable (Level III or Level IV) allows.

3.2.14.1 Method 8260B, VOC Analysis by GC/MS

Criteria: The analysis of 2-chloroethyl vinyl ether in water must be performed on an unacidified sample.

Evaluation	Action
If 2-chloroethyl vinyl ether was reported for an acidified water sample,	qualify all associated detects as "NJ-" and all associated non-detects as "R."

3.2.14.2 Method 8270C, SVOC Analysis by GC/MS

Criteria: Gel permeation chromatography (GPC) cleanup shall be used as necessary to eliminate interferences. In addition, all water samples containing high molecular weight compounds that interfere with the analysis of the target compounds must also undergo GPC cleanup.

3.2.14.6 Method 1668A, Chlorinated Biphenyl Congeners

Initial Calibration

Criteria: Isotope dilution shall be used for calibration of the toxics and beginning and ending level of chlorination (LOC) chlorinated biphenyls (CBs). A 5- or 6-point calibration is prepared for each native congener. The RRF %RSD for all native toxics/LOC CBs must be <20%. If a linear curve is used for initial calibration, the r^2 of the curve must be >0.99.

Evaluation	Action
If the %RSD for any target compound is...	
>20% but ≤40%,	qualify all associated detects as "J" and, if any other calibration criteria have been exceeded for that compound, qualify all associated non-detects as "UJ."
>40% but ≤60%,	qualify all associated detects as "J" and all associated non-detects as "UJ."
>60%,	qualify all associated detects as "J" and all associated non-detects as "R."
If the r^2 for any target compound is...	
<0.99 but ≥0.90,	qualify all associated detects as "J" and, if any other calibration criteria have been exceeded for that compound, qualify all associated non-detects as "UJ."
<0.90 but ≥0.80,	qualify all associated detects as "J" and all associated non-detects as "UJ."
<0.80,	qualify all associated detects as "J" and all associated non-detects as "R."

Criteria: Calibration using internal standards is used for determination of native CBs for which a labeled compound is not available. For these CBs, calibration is performed at a single point. Compounds should be quantitated using the appropriate reference internal standard listed in Table 2 of the method. Ion abundance ratios must meet the criteria in Appendix I or must be within 15% of the theoretical ratio of the ion monitored.

Evaluation	Action
If the ion abundance criteria were not met for any calibration compound,	qualify all associated detects as "J" and all associated non-detects as "UJ."

Continuing Calibration

Criteria: At the beginning of each 12-hour period during which analysis is performed, calibration is verified for all native CBs and labeled compounds. The ion abundance ratios for all CBs must be within the limits in Appendix I, and all compounds must meet the calibration verification recovery limits listed in Appendix J.

RRTs of native CBs and labeled compounds in the calibration verification must be within ±0.5% of the mean RRT determined from the initial calibration or most recent calibration verification standard. The diluted combined 209 congener solution must be analyzed as a final step in the calibration verification and must meet the minimum analysis and resolution specifications of the method.

Evaluation	Action
If the ion abundance ratio for any calibration verification compound is outside of the method limits,	qualify all associated detects as "J" and all associated non-detects as "UJ."
If the verification limits are not met for any calibration verification compound and...	
the recovery is above the verification limits,	qualify all associated detects as "J+."
the recovery is below the verification limits,	qualify all associated detects as "J-" and all associated non-detects as "UJ" if the recovery is ≥10% and as "R" if the recovery is <10%.
If the RRT of any compound is outside of the RRT window,	qualify all associated results as "R."

RT Calibration

Criteria: The absolute RT of CB 209 must be ≥55 minutes if the SPB-octyl column is used. If a GC column or column system alternate to the SPB-octyl column is used, the absolute RT of CB 209 must be ≥ the laboratory-established minimum RT for CB 209. If the laboratory has not established a minimum RT value for CB 209, the RT for CB 209 must be ≥55 minutes.

Evaluation	Action
If an SPB-octyl column was used and the absolute RT of CB 209 is <55 minutes,	qualify all associated results as "R."
If a GC column or column system alternate to the SPB-octyl column was used and the absolute RT is < the laboratory established minimum RT for CB 209, or <55 minutes if the laboratory has not established a minimum RT,	qualify all associated results as "R."

OPR

Criteria: OPR must be established for every batch of samples extracted and analyzed and must meet the recovery and %RSD limits listed in Appendix J. If the OPR criteria are not met and reanalysis was not performed, then the lab performance and method accuracy are in question.

Evaluation	Action
If the frequency of the OPR did not meet the specified criteria,	note the deficiency in the data validation report.
If the OPR recovery is > the upper acceptance limit,	qualify all associated detects as "J+."
If the OPR recovery is < the lower acceptance limit,	qualify all associated detects as "J-" and all associated non-detects as "UJ" if the recovery is ≥10% and as "R" if the recovery is <10%.
If recoveries of more than half of the compounds in the OPR analysis are above the acceptance range,	qualify all associated detects as "J+."
If recoveries of more than half of the compounds in the OPR analysis are below the acceptance range,	qualify all associated detects as "J-" and all associated non-detects as "UJ" if the failures are marginally low and as "R" if recoveries are significantly below acceptance limits. **NOTE**: If recoveries for more than half of the compounds in the OPR analysis are below the acceptance range, the laboratory has not shown that it can actually meet program required detection limits.
If recoveries of more than half of the compounds in the OPR analysis exceed the acceptance range, both above and below,	qualify all associated detects as "J" and all associated non-detects as "UJ."

Sample Preparation

Criteria: CBs may be bound to suspended particles in aqueous samples; therefore, the preparation of aqueous samples is dependent upon the solids content of the sample. A direct extraction is used for aqueous samples containing <1% solids. For aqueous samples containing >1% solids, the sample is agitated and allowed to settle, and the liquid is decanted and discarded prior to extraction of the solids. The particle size for all solid samples should be determined prior to preparation. Particle size must be 1 millimeter or less prior to sample preparation.

Evaluation	Action
If % solids and particle size were not determined prior to sample preparation or if the proper preparation method was not performed,	qualify all associated detects as "J" and all associated non-detects as "UJ."

Criteria: Extract cleanup shall be used as necessary to eliminate interferences. The laboratory may employ GPC; acid, base, or neutral silica gel; florisil; carbopak/celite; or HPLC cleanup methods or anthropogenic isolation column for lipids (tissue extracts only).

Evaluation	Action
If the runlog notations, spectral data, and/or internal standard or labeled compound recoveries indicate potential interferences and applicable cleanup was not performed,	qualify all associated detects as "J" and all associated non-detects as "UJ."

Sample Analysis

Criteria: For identification of any CB or labeled compound, the ion abundance ratios must be within the limits specified in Appendix I or ±15% of the calibration verification standard. The RRT of each CB must be within ±0.5% of the mean RRT determined from the initial calibration or ±0.5% of the RRT from the most recent calibration verification standard.

Evaluation	Action
If ion abundance ratio criteria were not met for any compound,	qualify all associated results as "R."
If the RRT of any CB is outside of the RRT window,	qualify all associated results as "R."

Mass Spectrometer Performance Criteria

Criteria: Performance criteria are established to ensure mass resolution; identification; and, to some degree, sensitivity. These criteria are not sample specific. Conformance is determined using standard materials. These criteria should be met in all circumstances.

Evaluation	Action
If mass spectrometer performance was not evaluated at the required frequency or if method criteria were not met,	qualify all associated detects as "R" and all associated non-detects as "UJ."

Labeled Compounds

Criteria: To assess method performance on the sample matrix, the laboratory must spike all samples with the labeled toxics/LOC/window defining standard spiking solution and all sample extracts with the labeled cleanup standard spiking solution. The recovery of each labeled compound must be within the limits listed in Table 6 of the method.

Evaluation	Action
If the recovery of any labeled toxics/LOC/window defining standard compound is above acceptance limits,	qualify all detects for that sample fraction as "J-" and all non-detects for that sample fraction as "UJ."
If the recovery of any labeled toxics/LOC/window defining standard compound is below acceptance limits,	qualify all detects for that sample fraction as "J+" and all non-detects for that sample fraction as "UJ" if the recovery is ≥10% and as "R if the recovery is <10%.
If the recovery of any labeled cleanup standard compound is above acceptance limits,	qualify all associated detects as "J+."
If the recovery of any labeled cleanup standard compound is below acceptance limits,	qualify all associated detects as "J-" and all associated non-detects as "UJ" if the recovery is ≥10% and as "R" if the recovery is <10%.