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Data Validation Report for CH2M Hill Plateau Remediation Company

VSR11-035
Project WMA C (C7670)

Chemical & Radiochemical Validation - Level C

Validation Performed By: Carl Schlosser **Date:** 5-12-2011

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Date: 12 May 2011
To: CH2M Hill (technical representative)
From: Analytical Quality Associates, Inc.
Project: WMA C (C7670)
Subject: Volatile Organics - Sample Data Group (SDG) 20100213

INTRODUCTION

This memorandum presents the results of data validation for SDG 20100213 prepared by 222-S Laboratory. A list of samples validated along with the analytical methods is provided in the following table.

Sample ID	Sample Date	Media	Validation Level	Analytical Methods
B238F5	4/15/2010	Water	C	8260B
B238F6	4/20/2010	Water	C	8260B
B23MP2	4/22/2010	Water	C	8260B
B23MP3	4/23/2010	Water	C	8260B
B23MP4	5/4/2010	Water	C	8260B
B23MP5	5/5/2010	Water	C	8260B
B23MP6	5/7/2010	Water	C	8260B
B23MP7	5/11/2010	Water	C	8260B
B23MR0	4/15/2010	Water	C	8260B
B23MR1	4/20/2010	Water	C	8260B
B23MR2	4/22/2010	Water	C	8260B
B23MR3	4/23/2010	Water	C	8260B
B23MR4	5/4/2010	Water	C	8260B
B23MR5	5/5/2010	Water	C	8260B
B23MR6	5/7/2010	Water	C	8260B
B23MR7	5/11/2010	Water	C	8260B
B23KN6	4/15/2010	Soil	C	8260B
B23KN9	4/15/2010	Soil	C	8260B
B23KN4	4/20/2010	Soil	C	8260B
B23KP2	4/22/2010	Soil	C	8260B
B23KP8	4/22/2010	Soil	C	8260B
B23KR1	4/23/2010	Soil	C	8260B
B23KR4	5/4/2010	Soil	C	8260B
B23KR7	5/5/2010	Soil	C	8260B
B23KT3	5/11/2010	Soil	C	8260B

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 volatile organics are analysis within 14 days of sample collection. Sample preservation for soil samples requires freezing. Sample preservation for water samples requires chilling to 4 degrees Celsius and acid preservation with hydrochloric or sulfuric acid to pH <2.

The samples were analyzed within the prescribed holding time and properly preserved with the following exception.

Samples B23KN6 and B23KN9 were placed in a refrigerator upon receipt by the laboratory instead of a freezer, and not transferred to a freezer until approximately 90 hours had passed. Based on professional judgment, all sample results should be qualified as estimates and flagged "UJ" for non-detects and "J" for detects. 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 batch 19080, the acetone and toluene laboratory blank results were > the method detection limits (MDLs). The acetone results for samples B23MR0, B23MR2, B238F5 and B238F6 were non-detects and should not be qualified. The toluene results for samples B23MR0, B23MR2, B238F5 and B238F6 were detects <5X the laboratory blank result and should be qualified as non-detects at the sample concentrations (0.0914 ug/L, 0.158 ug/L, 0.200 ug/L and 0.145 ug/L, respectively) and flagged "U."

For batch 19081, the acetone and toluene laboratory blank results were > the MDLs. The acetone results for samples B23MP2, B23MP3 and B23MR1 were non-detects and should not be qualified. The toluene results for samples B23MP2 and B23MR1 were detects <5X the laboratory blank result and would be qualified as non-detects at the sample concentrations (0.0645 ug/L and 0.183 ug/L, respectively) and flagged "U," but were further flagged "UJ" due

to lack of MS/MSD data. The toluene result for sample B23MP3 was a non-detect and should not be qualified for the laboratory blank infraction.

For batch 19447, the acetone and toluene laboratory blank results were > the MDLs. The acetone and toluene results for sample B23MR4 were detects <5X the laboratory blank results and should be qualified as non-detects at the sample concentrations (3.65 ug/L and 0.163 ug/L, respectively) and flagged "U."

For batch 19485, the acetone, benzene, 2-butanone and toluene laboratory blank results were > the MDLs. The acetone results for B23MR5, B23MP4 and B23MP6 were detects <5X the laboratory blank result and should be qualified as non-detects at the sample concentrations (2.89 ug/L, 2.52 ug/L and 2.10 ug/L, respectively) and flagged "U." The acetone results for samples B23MR6 and B23MP5 were non-detects and should not be qualified. The benzene results for samples B23MR6, B23MP4, B23MP5 and B23MP6 were detects <5X the laboratory blank result and should be qualified as non-detects at the sample concentrations (0.0437 ug/L, 0.0444 ug/L, 0.0504 ug/L and 0.0326 ug/L, respectively) and flagged "U." The benzene result for sample B23MR5 was a non-detect and should not be qualified. The 2-butanone results for samples B23MR5, B23MR6, B23MP4, B23MP5 and B23MP6 were non-detects and should not be qualified. The toluene results for samples B23MR5, B23MR6, B23MP4, B23MP5 and B23MP6 were detects <5X the laboratory blank result and should be qualified as non-detects at the sample concentrations (0.126 ug/L, 0.262 ug/L, 0.189 ug/L, 0.122 ug/L and 0.228 ug/L, respectively) and flagged "U."

For batch 19680, the acetone and 2-butanone laboratory blank results were > the MDLs. The acetone result for sample B23MR7 was a detect <5X the laboratory blank result and should be qualified as a non-detect at the sample concentration (3.45 ug/L) and flagged "U." The acetone result for sample B23MP7 and the 2-butanone results for samples B23MR7 and B23MP7 were non-detects and should not be qualified.

For batch 20256, the acetone and toluene laboratory blank results were > the MDLs. The acetone result for sample B23MR3 was a non-detect and should not be qualified. The toluene result for sample B23MR3 was a detect <5X the laboratory blank result and should be qualified as a non-detect at the sample concentration (0.114 ug/L) and flagged "U."

For batch 18960, the toluene laboratory blank result was > the MDL. The toluene results for samples B23KN6 and B23KN9 were detects <5X the laboratory blank result and would be qualified as non-detects at the sample concentrations (0.360 ug/kg and 0.416 ug/kg, respectively) and flagged "U," but were further flagged "UJ" due to a sample preservation infraction. The toluene result for sample B23KN4 was a detect <5X the laboratory blank result and should be qualified as a non-detect at the sample concentration (0.598 ug/kg) and flagged "U."

For batch 19123, the toluene laboratory blank result was > the MDL. The toluene results for samples B23KP2 and B23KP8 were detects <5X the laboratory blank result and should be qualified as non-detects at the sample concentrations (0.325 ug/kg and 0.351 ug/kg, respectively) and flagged "U."

For batch 19566, the 2-hexanone laboratory blank result was > the MDL. The 2-hexanone result for sample B23KT3was a detect <5X the laboratory blank result and should be qualified as a non-detect at the sample concentration (9.41 ug/kg) and flagged "U."

For batch 20082, the toluene and m,p-xylene laboratory blank results were > the MDLs. The toluene result for sample B23KR1 was a detect <5X the laboratory blank result and should be qualified as a non-detect at the sample concentration (0.360 ug/kg) and flagged "U." The m,p-xylene result for sample B23KR1 was a non-detect and should not be qualified.

Trip Blanks

All trip blank results were acceptable with the following exceptions.

Chloroform and toluene were detected in trip blanks B238F5 and B238F6. The toluene results for these two samples were qualified as non-detects due to laboratory blank contamination.

Chloroform, toluene and chloromethane were detected in trip blank B23MP2. The toluene result for this sample was qualified as a non-detect due to laboratory blank contamination.

Benzene, chloroform and chloromethane were detected in trip blank B23MP3.

Acetone, benzene, chloroform and toluene were detected in trip blanks B23MP4 and B23MP6. The acetone, benzene and toluene results for these two samples were qualified as non-detects due to laboratory blank contamination.

Benzene, chloroform and toluene were detected in trip blank B23MP5. The benzene and toluene results for this sample were qualified as non-detects due to laboratory blank contamination.

Chloroform and toluene were detected in trip blank B23MP7.

Field Blanks

All field blank results were acceptable with the following exceptions.

Benzene, chloroform and toluene were detected in field blank B23MR0, and chloroform and toluene were detected in field blank B23MR2. The toluene results for these two samples were qualified as non-detects due to laboratory blank contamination.

Chloroform, toluene and chloromethane were detected in field blank B23MR1. The toluene result for this sample was qualified as a non-detect due to laboratory blank contamination.

Acetone, benzene, chloroform and toluene were detected in field blank B23MR4. The acetone and toluene results for this sample were qualified as non-detects due to laboratory blank contamination.

Acetone, chloroform and toluene were detected in field blank B23MR5. The acetone and toluene results for this sample were qualified as non-detects due to laboratory blank contamination.

Benzene, chloroform and toluene were detected in field blank B23MR6. The benzene and toluene results for this sample were qualified as non-detects due to laboratory blank contamination.

Acetone, benzene, chloroform, toluene and 2-hexanone were detected in field blank B23MR7. The acetone result for this sample was qualified as a non-detect due to laboratory blank contamination.

Benzene, chloroform and toluene were detected in field blank B23MR3. The toluene result for this sample was qualified as a non-detect due to laboratory blank contamination.

Equipment Blanks

No equipment blanks were submitted for validation.

- **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

All surrogate recoveries were acceptable.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Samples

All MS/MSD recoveries were acceptable with the following exceptions.

For all batches, only nine or ten 8260B MS/MSD analytes were reported. Reported analytes not represented in the MS/MSDs were trans-1,3-dichloropropene and carbon disulfide. All sample results for these two analytes were non-detects and should be qualified as estimates and flagged "UJ."

For batch 19680, 2-hexanone was not represented in the MS/MSD, and this analyte was reported in sample B23MR7. The 2-hexanone result for sample B23MR7 was a detect and should be qualified as an estimate and flagged "UJ."

For batch 19081, the MS and MSD samples failed to purge. All results for samples B23MP2, B23MP3 and B23MR1 should be qualified as estimates and flagged "UJ" for non-detects and "J" for detects due to lack of MS/MSD data. See the table in Appendix 2 for a listing of all affected sample results.

For batch 19485, the 1-butanol MS recovery was below the lower acceptance limit. The 1-butanol results for samples B23MR5, B23MR6, B23MP4, B23MP5 and B23MP6 were non-detects and should be qualified as estimates and flagged "UJ."

For batch 19680, the 4-methyl-2-pentanone (a.k.a. hexone) MSD recovery was above the upper acceptance limit. The 4-methyl-2-pentanone results for samples B23MR7 and B23MP7 were non-detects and should not be qualified.

For batch 18960, the acetone MSD recovery and the 4-methyl-2-pentanone MS/MSD recoveries were above the upper acceptance limit. The acetone and 4-methyl-2-pentanone results for samples B23KN6, B23KN9 and B23KN4 were non-detects and should not be qualified.

For batch 19123, the 1-butanol and 2-butanone MS recoveries, and the acetone and 4-methyl-2-pentanone MS/MSD recoveries were above the upper acceptance limit. The acetone result for sample B23KP2 was a detect and should be qualified as an estimate and flagged "J." All other associated results for samples B23KP2 and B23KP8 were non-detects and should not be qualified.

For batch 19486, the acetone and 4-methyl-2-pentanone MS/MSD recoveries were above the upper acceptance limit. The associated results for samples B23KR7 and B23KR4 were non-detects and should not be qualified.

For batch 19566, the acetone, 4-methyl-2-pentanone, 2-butanone and 2-hexanone MS/MSD recoveries were above the upper acceptance limit. The acetone result for sample B23KT3 was a detect and should be qualified as an estimate and flagged "J." All other associated results for sample B23KT3 were non-detects or have been qualified as non-detects and should not be qualified for the MS/MSD recovery infractions.

For batch 20082, the acetone MSD recovery was below the lower acceptance limit, and the 4-methyl-2-pentanone MS/MSD recoveries were above the upper acceptance limit. The acetone result for sample B23KR1 was a detect and should be qualified as an estimate and flagged "J." The 4-methyl-2-pentanone result for sample B23KR1 was a non-detect and should not be qualified.

Laboratory Control Samples (LCSs)

All LCS recoveries were acceptable with the following exceptions.

For all batches, only nine or ten 8260B LCS analytes were reported. Reported analytes not represented in the LCSs were trans-1,3-dichloropropene and carbon disulfide. All sample results for these two analytes were non-detects and should be qualified as estimates and flagged "UJ."

For batch 19680, 2-hexanone was not represented in the LCS, and this analyte was reported in sample B23MR7. The 2-hexanone result for sample B23MR7 was a detect and should be qualified as an estimate and flagged "UJ."

For batch 19447, the acetone LCS recovery was above the upper acceptance limit. The acetone result for sample B23MR4 has been qualified as a non-detect and should not be further qualified for the LCS recovery infraction.

For batch 19485, the acetone LCS recovery was above the upper acceptance limit. The acetone results for samples B23MR5, B23MR6, B23MP4, B23MP5 and B23MP6 were non-detects or have been qualified as non-detects and should not be further qualified for the LCS recovery infraction.

For batch 19680, the acetone LCS recovery was above the upper acceptance limit. The acetone results for samples B23MR7 and B23MP7 were non-detects or have been qualified as non-detects and should not be further qualified for the LCS recovery infraction.

For batch 19123, the 4-methyl-2-pentanone LCS recovery was above the upper acceptance limit. The 4-methyl-2-pentanone results for samples B23KP2 and B23KP8 were non-detects and should not be qualified.

For batch 19566, the acetone, 4-methyl-2-pentanone and 2-hexanone LCS recoveries were above the upper acceptance limit. The acetone result for sample B23KT3 was a detect and should be qualified as an estimate and flagged "J." The 4-methyl-2-pentanone and 2-hexanone results for sample B23KT3 were non-detects or have been qualified as non-detects and should not be qualified for the LCS recovery infractions.

- **Precision**

Precision is evaluated by reviewing MS/MSD 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 exceed the limits and have associated results <5X the SAP required detection limits with differences <2X the required detection limits no precision infraction occurred.

MS/MSD Samples

All MS/MSD relative percent difference values were acceptable with the following exceptions.

For batch 20082, the acetone RPD was above the acceptance limit. The acetone result for sample B23KR1 was a detect and should be qualified as an estimate and flagged "J."

Field Duplicate Samples

All field duplicate results were acceptable.

Field Split Samples

No field splits were submitted for validation.

- **Detection Limits**

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

All reported sample MDLs were below the RDLs.

- **Completeness**

SDG 20100213 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

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

GRP-GD-003, Rev. 0, Change 0, *Data Validation for Chemical Analyses*, August 2010

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

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

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

- **N** — The analysis indicates the presence of an analyte that has been tentatively identified.

- **NJ** — The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

- **NJ+** — The analysis indicates the presence of an analyte that has been tentatively identified. The associated value is estimated with a suspected positive bias due to a quality control deficiency identified during data validation.

- **NJ-** — The analysis indicates the presence of an analyte that has been tentatively identified. The associated value is estimated with a suspected negative bias due to a quality control deficiency identified during data validation.

- **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

Volatile Organics Data Qualification Summary			
SDG: 20100213	Reviewer: AQA	Project: WMA C (C7670)	
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
trans-1,3-Dichloropropene Carbon disulfide	UJ	B238F5, B238F6, B23MP4, B23MP5, B23MP6, B23MP7, B23MR0, B23MR2, B23MR3, B23MR4, B23MR5, B23MR6, B23MR7, B23KN4, B23KP2, B23KP8, B23KR1, B23KR4, B23KR7, B23KT3	Non-represented MS/MSD and LCS data
Toluene	0.0914U	B23MR0	Lab blank contamination
Toluene	0.158U	B23MR2	Lab blank contamination
Toluene	0.200U	B238F5	Lab blank contamination
Toluene	0.145U	B238F6	Lab blank contamination
Toluene	0.0645UJ	B23MP2	Lab blank contamination and lack of MS/MSD data
Toluene	0.183UJ	B23MR1	Lab blank contamination and lack of MS/MSD data
trans-1,3-Dichloropropene Carbon disulfide	UJ	B23MP2, B23MP3, B23MR1	Lack of MS/MSD data
Chloroform Chloromethane	J	B23MP2, B23MR1	Lack of MS/MSD data
All analytes *except*: Chloroform Chloromethane Toluene trans-1,3-Dichloropropene Carbon disulfide	UJ	B23MP2, B23MR1	Lack of MS/MSD data
Benzene Chloroform Chloromethane	J	B23MP3	Lack of MS/MSD data
All analytes *except*: Benzene Chloroform Chloromethane trans-1,3-Dichloropropene Carbon disulfide	UJ	B23MP3	Lack of MS/MSD data
Acetone	3.65U	B23MR4	Lab blank contamination
Toluene	0.163U	B23MR4	Lab blank contamination

Volatile Organics Data Qualification Summary			
Acetone	2.89U	B23MR5	Lab blank contamination
Toluene	0.126U	B23MR5	Lab blank contamination
Benzene	0.0437U	B23MR6	Lab blank contamination
Toluene	0.262U	B23MR6	Lab blank contamination
Acetone	2.52U	B23MP4	Lab blank contamination
Benzene	0.0444U	B23MP4	Lab blank contamination
Toluene	0.189U	B23MP4	Lab blank contamination
Benzene	0.0504U	B23MP5	Lab blank contamination
Toluene	0.122U	B23MP5	Lab blank contamination
Acetone	2.10U	B23MP6	Lab blank contamination
Benzene	0.0326U	B23MP6	Lab blank contamination
Toluene	0.228U	B23MP6	Lab blank contamination
1-Butanol	UJ	B23MR5,B23MR6, B23MP4, B23MP5, B23MP6	Low MS recovery
Acetone	3.45U	B23MR7	Lab blank contamination
2-Hexanone	J	B23MR7	Non-represented MS/MSD and LCS data
Toluene	0.114U	B23MR3	Lab blank contamination
Toluene	0.360UJ	B23KN6	Improper preservation and lab blank contamination
Toluene	0.416UJ	B23KN9	Improper preservation and lab blank contamination
trans-1,3-Dichloropropene Carbon disulfide	UJ	B23KN6, B23KN9	Improper preservation and non-represented MS/MSD and LCS data
All analytes *except*: Toluene trans-1,3-Dichloropropene Carbon disulfide	UJ	B23KN6	Improper preservation
1-Butanol	J	B23KN9	Improper preservation
All analytes *except*: Toluene 1-Butanol trans-1,3-Dichloropropene Carbon disulfide	UJ	B23KN9	Improper preservation
Toluene	0.598U	B23KN4	Lab blank contamination
Toluene	0.325U	B23KP2	Lab blank contamination
Toluene	0.351U	B23KP8	Lab blank contamination
Acetone	J	B23KP2	High MS/MSD recoveries
2-Hexanone	9.41U	B23KT3	Lab blank contamination
Acetone	J	B23KT3	High LCS & MS/MSD recoveries
Toluene	0.360U	B23KR1	Lab blank contamination

Volatile Organics Data Qualification Summary			
Acetone	J	B23KR1	Low MSD recovery and poor MS/MSD precision

Comments: None

Appendix 3

Annotated Laboratory Reports

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B238F5
Sample Depth: Trip Blank-1

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000320			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000320			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000320			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000320			75-35-4	1,1-Dichloroethene	ug/L	108	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000320			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000320			71-36-3	1-Butanol	ug/L	89.4	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000320			108-10-1	Hexone	ug/L	112	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000320			67-64-1	Acetone	ug/L	85.2	4.52	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000320			71-43-2	Benzene	ug/L	99.0	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V000320			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000320			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000320			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.707	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000320			108-90-7	Chlorobenzene	ug/L	101	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000320			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000320			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000320			78-93-3	2-Butanone	ug/L	97.3	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000320			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000320			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000320			108-88-3	Toluene 0.200U	ug/L	102	0.112	0.200	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V000320			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000320			79-01-6	Trichloroethene	ug/L	95.6	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000320			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000320			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000320			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000320			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000320			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000320			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000320			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B238F5
Sample Depth: Trip Blank-1

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000320			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000320			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000320			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B238F6
Sample Depth: Trip Blank-2

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000321			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000321			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000321			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000321			75-35-4	1,1-Dichloroethene	ug/L	108	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000321			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000321			71-36-3	1-Butanol	ug/L	89.4	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000321			108-10-1	Hexone	ug/L	112	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000321			67-64-1	Acetone	ug/L	85.2	4.52	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000321			71-43-2	Benzene	ug/L	99.0	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V000321			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000321			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000321			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.580	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000321			108-90-7	Chlorobenzene	ug/L	101	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000321			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000321			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000321			78-93-3	2-Butanone	ug/L	97.3	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000321			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000321			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000321			108-88-3	Toluene 0.145U	ug/L	102	0.112	0.145	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V000321			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000321			79-01-6	Trichloroethene	ug/L	95.6	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000321			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000321			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000321			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000321			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000321			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000321			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000321			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B238F6
Sample Depth: Trip Blank-2

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000321			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000321			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000321			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP2
Sample Depth: Trip Blank-3

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Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000322			71-55-6	1,1,1-Trichloroethane	UJ	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000322			79-00-5	1,1,2-Trichloroethane	UJ	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000322			79-34-5	1,1,2,2-Tetrachloroethane	UJ	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000322			75-35-4	1,1-Dichloroethene	UJ	ug/L	111	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000322			107-06-2	1,2-Dichloroethane	UJ	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000322			71-36-3	1-Butanol	UJ	ug/L	106	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000322			108-10-1	Hexone	UJ	ug/L	114	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000322			67-64-1	Acetone	UJ	ug/L	123	4.86	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000322			71-43-2	Benzene	UJ	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V000322			75-15-0	Carbon disulfide	UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000322			56-23-5	Carbon tetrachloride	UJ	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000322			67-66-3	Chloroform	J	ug/L	n/a	<0.0414	0.562	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000322			108-90-7	Chlorobenzene	UJ	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000322			100-41-4	Ethylbenzene	UJ	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000322			1330-20-7	Xylenes (total)	UJ	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000322			74-87-3	Chloromethane	J	ug/L	n/a	<0.0275	0.221	n/a	n/a	n/a	n/a	0.0306	n/a	J
S10V000322			78-93-3	2-Butanone	UJ	ug/L	103	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000322			75-09-2	Methylenechloride	UJ	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000322			127-18-4	Tetrachloroethene	UJ	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000322			108-88-3	Toluene	0.0645UJ	ug/L	105	0.0849	0.0645	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V000322			10061-02-6	trans-1,3-Dichloropropene	UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000322			79-01-6	Trichloroethene	UJ	ug/L	98.5	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000322			75-01-4	Vinyl chloride	UJ	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000322			156-59-2	cis-Dichloroethylene	UJ	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000322			156-60-5	trans-Dichloroethylene	UJ	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000322			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	UJ	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000322			79-46-9	2-Nitropropane	UJ	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000322			141-78-6	Ethyl acetate	UJ	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP2
Sample Depth: Trip Blank-3

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Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000322			60-29-7	Diethyl ether	UJ	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V000322			75-69-4	Trichlorofluoromethane	UJ	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000322			95-47-6	o-Xylene	UJ	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000322			179601-23-1	m,p-Xylene	UJ	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP3
Sample Depth: Trip Blank-4

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Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000323			71-55-6	1,1,1-Trichloroethane	UJ	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000323			79-00-5	1,1,2-Trichloroethane	UJ	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000323			79-34-5	1,1,2,2-Tetrachloroethane	UJ	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000323			75-35-4	1,1-Dichloroethene	UJ	ug/L	111	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000323			107-06-2	1,2-Dichloroethane	UJ	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000323			71-36-3	1-Butanol	UJ	ug/L	106	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000323			108-10-1	Hexone	UJ	ug/L	114	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000323			67-64-1	Acetone	UJ	ug/L	123	4.86	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000323			71-43-2	Benzene	J	ug/L	101	<0.0163	0.0498	n/a	n/a	n/a	n/a	0.0181	n/a	J
S10V000323			75-15-0	Carbon disulfide	UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000323			56-23-5	Carbon tetrachloride	UJ	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000323			67-66-3	Chloroform	J	ug/L	n/a	<0.0414	0.593	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000323			108-90-7	Chlorobenzene	UJ	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000323			100-41-4	Ethylbenzene	UJ	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000323			1330-20-7	Xylenes (total)	UJ	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000323			74-87-3	Chloromethane	J	ug/L	n/a	<0.0275	0.278	n/a	n/a	n/a	n/a	0.0306	n/a	J
S10V000323			78-93-3	2-Butanone	UJ	ug/L	103	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000323			75-09-2	Methylenechloride	UJ	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000323			127-18-4	Tetrachloroethene	UJ	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000323			108-88-3	Toluene	UJ	ug/L	105	0.0849	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V000323			10061-02-6	trans-1,3-Dichloropropene	UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000323			79-01-6	Trichloroethene	UJ	ug/L	98.5	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000323			75-01-4	Vinyl chloride	UJ	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000323			156-59-2	cis-Dichloroethylene	UJ	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000323			156-60-5	trans-Dichloroethylene	UJ	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000323			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	UJ	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000323			79-46-9	2-Nitropropane	UJ	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000323			141-78-6	Ethyl acetate	UJ	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP3
Sample Depth: Trip Blank-4

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Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000323			60-29-7	Diethyl ether	UJ	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V000323			75-69-4	Trichlorofluoromethane	UJ	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000323			95-47-6	o-Xylene	UJ	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000323			179601-23-1	m,p-Xylene	UJ	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

NA = Not Analyzed, ND = Not Detected

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U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
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c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP4
Sample Depth: Trip Blank-5

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000324			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000324			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000324			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000324			75-35-4	1,1-Dichloroethene	ug/L	109	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000324			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000324			71-36-3	1-Butanol UJ	ug/L	77.1	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	Ub
S10V000324			108-10-1	Hexone	ug/L	109	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000324			67-64-1	Acetone 2.52U	ug/L	160	25.7	2.52	n/a	n/a	n/a	n/a	0.637	n/a	BJa
S10V000324			71-43-2	Benzene 0.0444U	ug/L	97.8	0.0422	0.0444	n/a	n/a	n/a	n/a	0.0181	n/a	BJ
S10V000324			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000324			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000324			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.513	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000324			108-90-7	Chlorobenzene	ug/L	96.5	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000324			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000324			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000324			78-93-3	2-Butanone	ug/L	94.3	1.51	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000324			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000324			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000324			108-88-3	Toluene 0.189U	ug/L	99.3	0.0553	0.189	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V000324			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000324			79-01-6	Trichloroethene	ug/L	93.7	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000324			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000324			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000324			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000324			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000324			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000324			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000324			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP4
Sample Depth: Trip Blank-5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000324			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000324			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000324			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP5
Sample Depth: Trip Blank-6

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000325			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000325			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000325			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000325			75-35-4	1,1-Dichloroethene	ug/L	109	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000325			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000325			71-36-3	1-Butanol UJ	ug/L	77.1	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	Ub
S10V000325			108-10-1	Hexone	ug/L	109	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000325			67-64-1	Acetone	ug/L	160	25.7	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	Ua
S10V000325			71-43-2	Benzene 0.0504U	ug/L	97.8	0.0422	0.0504	n/a	n/a	n/a	n/a	0.0181	n/a	BJ
S10V000325			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000325			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000325			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.604	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000325			108-90-7	Chlorobenzene	ug/L	96.5	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000325			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000325			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000325			78-93-3	2-Butanone	ug/L	94.3	1.51	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000325			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000325			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000325			108-88-3	Toluene 0.122U	ug/L	99.3	0.0553	0.122	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V000325			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000325			79-01-6	Trichloroethene	ug/L	93.7	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000325			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000325			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000325			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000325			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000325			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000325			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000325			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP5
Sample Depth: Trip Blank-6

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000325			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000325			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000325			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP6
Sample Depth: Trip Blank-7

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000326			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000326			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000326			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000326			75-35-4	1,1-Dichloroethene	ug/L	109	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000326			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000326			71-36-3	1-Butanol UJ	ug/L	77.1	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	Ub
S10V000326			108-10-1	Hexone	ug/L	109	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000326			67-64-1	Acetone 2.10U	ug/L	160	25.7	2.10	n/a	n/a	n/a	n/a	0.637	n/a	BJa
S10V000326			71-43-2	Benzene 0.0326U	ug/L	97.8	0.0422	0.0326	n/a	n/a	n/a	n/a	0.0181	n/a	BJ
S10V000326			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000326			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000326			67-66-3	Chloroform	ug/L	n/a	<0.0414	1.11	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000326			108-90-7	Chlorobenzene	ug/L	96.5	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000326			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000326			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000326			78-93-3	2-Butanone	ug/L	94.3	1.51	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000326			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000326			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000326			108-88-3	Toluene 0.228U	ug/L	99.3	0.0553	0.228	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V000326			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000326			79-01-6	Trichloroethene	ug/L	93.7	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000326			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000326			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000326			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000326			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000326			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000326			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000326			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP6
Sample Depth: Trip Blank-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000326			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000326			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000326			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP7
Sample Depth: Trip Blank-8

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000327			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000327			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000327			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000327			75-35-4	1,1-Dichloroethene	ug/L	101	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000327			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000327			71-36-3	1-Butanol	ug/L	81.7	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000327			108-10-1	Hexone	ug/L	123	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000327			67-64-1	Acetone	ug/L	172	30.5	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	Ua
S10V000327			71-43-2	Benzene	ug/L	95.1	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V000327			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000327			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000327			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.959	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000327			108-90-7	Chlorobenzene	ug/L	102	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000327			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000327			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000327			78-93-3	2-Butanone	ug/L	97.1	1.66	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000327			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000327			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000327			108-88-3	Toluene	ug/L	104	<0.0522	0.234	n/a	n/a	n/a	n/a	0.0580	n/a	J
S10V000327			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000327			79-01-6	Trichloroethene	ug/L	90.6	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000327			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000327			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000327			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000327			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000327			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000327			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000327			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
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c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MP7
Sample Depth: Trip Blank-8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000327			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000327			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000327			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR0
Sample Depth: Field Blank-1

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000310			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000310			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000310			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000310			75-35-4	1,1-Dichloroethene	ug/L	108	<0.172	<0.191	n/a	n/a	n/a	101	0.191	n/a	U
S10V000310			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000310			71-36-3	1-Butanol	ug/L	89.4	<1.15	<1.28	n/a	n/a	n/a	94.5	1.28	n/a	U
S10V000310			108-10-1	Hexone	ug/L	112	<0.453	<0.503	n/a	n/a	n/a	97.6	0.503	n/a	U
S10V000310			67-64-1	Acetone	ug/L	85.2	4.52	<0.637	n/a	n/a	n/a	90.9	0.637	n/a	U
S10V000310			71-43-2	Benzene	ug/L	99.0	<0.0163	0.0458	n/a	n/a	n/a	93.5	0.0181	n/a	J
S10V000310			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000310			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000310			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.673	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000310			108-90-7	Chlorobenzene	ug/L	101	<0.0320	<0.0356	n/a	n/a	n/a	94.0	0.0356	n/a	U
S10V000310			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000310			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000310			78-93-3	2-Butanone	ug/L	97.3	<0.458	<0.509	n/a	n/a	n/a	88.9	0.509	n/a	U
S10V000310			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000310			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000310			108-88-3	Toluene 0.0914U	ug/L	102	0.112	0.0914	n/a	n/a	n/a	96.3	0.0580	n/a	BJ
S10V000310			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000310			79-01-6	Trichloroethene	ug/L	95.6	<0.0378	<0.0420	n/a	n/a	n/a	91.4	0.0420	n/a	U
S10V000310			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000310			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000310			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000310			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000310			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000310			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000310			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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a - LCS Outside Range
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c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR0
Sample Depth: Field Blank-1

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000310			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000310			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000310			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR1
Sample Depth: Field Blank-2

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Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000311			71-55-6	1,1,1-Trichloroethane	UJ	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000311			79-00-5	1,1,2-Trichloroethane	UJ	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000311			79-34-5	1,1,2,2-Tetrachloroethane	UJ	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000311			75-35-4	1,1-Dichloroethene	UJ	ug/L	111	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000311			107-06-2	1,2-Dichloroethane	UJ	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000311			71-36-3	1-Butanol	UJ	ug/L	106	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000311			108-10-1	Hexone	UJ	ug/L	114	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000311			67-64-1	Acetone	UJ	ug/L	123	4.86	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000311			71-43-2	Benzene	UJ	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V000311			75-15-0	Carbon disulfide	UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000311			56-23-5	Carbon tetrachloride	UJ	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000311			67-66-3	Chloroform	J	ug/L	n/a	<0.0414	0.596	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000311			108-90-7	Chlorobenzene	UJ	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000311			100-41-4	Ethylbenzene	UJ	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000311			1330-20-7	Xylenes (total)	UJ	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000311			74-87-3	Chloromethane	J	ug/L	n/a	<0.0275	0.858	n/a	n/a	n/a	n/a	0.0306	n/a	
S10V000311			78-93-3	2-Butanone	UJ	ug/L	103	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000311			75-09-2	Methylenechloride	UJ	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000311			127-18-4	Tetrachloroethene	UJ	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000311			108-88-3	Toluene	0.183UJ	ug/L	105	0.0849	0.183	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V000311			10061-02-6	trans-1,3-Dichloropropene	UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000311			79-01-6	Trichloroethene	UJ	ug/L	98.5	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000311			75-01-4	Vinyl chloride	UJ	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000311			156-59-2	cis-Dichloroethylene	UJ	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000311			156-60-5	trans-Dichloroethylene	UJ	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000311			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	UJ	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000311			79-46-9	2-Nitropropane	UJ	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000311			141-78-6	Ethyl acetate	UJ	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U

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a - LCS Outside Range
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c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR1
Sample Depth: Field Blank-2

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Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000311			60-29-7	Diethyl ether	UJ	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V000311			75-69-4	Trichlorofluoromethane	UJ	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000311			95-47-6	o-Xylene	UJ	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000311			179601-23-1	m,p-Xylene	UJ	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR2
Sample Depth: Field Blank-3

LS
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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000312			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000312			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000312			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000312			75-35-4	1,1-Dichloroethene	ug/L	108	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000312			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000312			71-36-3	1-Butanol	ug/L	89.4	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000312			108-10-1	Hexone	ug/L	112	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000312			67-64-1	Acetone	ug/L	85.2	4.52	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000312			71-43-2	Benzene	ug/L	99.0	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V000312			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000312			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000312			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.535	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000312			108-90-7	Chlorobenzene	ug/L	101	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000312			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000312			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000312			78-93-3	2-Butanone	ug/L	97.3	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000312			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000312			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000312			108-88-3	Toluene 0.158U	ug/L	102	0.112	0.158	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V000312			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000312			79-01-6	Trichloroethene	ug/L	95.6	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000312			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000312			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000312			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000312			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000312			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000312			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000312			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR2
Sample Depth: Field Blank-3

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000312			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000312			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000312			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR3
Sample Depth: Field Blank-4

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000313			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000313			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000313			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000313			75-35-4	1,1-Dichloroethene	ug/L	95.6	<0.172	<0.191	n/a	n/a	n/a	88.2	0.191	n/a	U
S10V000313			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000313			71-36-3	1-Butanol	ug/L	77.2	<1.15	<1.28	n/a	n/a	n/a	85.8	1.28	n/a	U
S10V000313			108-10-1	Hexone	ug/L	98.3	<0.453	<0.503	n/a	n/a	n/a	103	0.503	n/a	U
S10V000313			67-64-1	Acetone	ug/L	82.3	11.2	<0.637	n/a	n/a	n/a	90.4	0.637	n/a	U
S10V000313			71-43-2	Benzene	ug/L	87.5	<0.0163	0.0458	n/a	n/a	n/a	87.2	0.0181	n/a	J
S10V000313			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000313			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000313			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.536	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000313			108-90-7	Chlorobenzene	ug/L	92.8	<0.0320	<0.0356	n/a	n/a	n/a	89.5	0.0356	n/a	U
S10V000313			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000313			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000313			78-93-3	2-Butanone	ug/L	83.2	<0.458	<0.509	n/a	n/a	n/a	87.5	0.509	n/a	U
S10V000313			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000313			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000313			108-88-3	Toluene 0.114U	ug/L	95.4	0.0943	0.114	n/a	n/a	n/a	93.1	0.0580	n/a	BJ
S10V000313			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000313			79-01-6	Trichloroethene	ug/L	85.6	<0.0378	<0.0420	n/a	n/a	n/a	80.9	0.0420	n/a	U
S10V000313			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000313			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000313			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000313			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000313			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000313			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000313			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR3
Sample Depth: Field Blank-4

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000313			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000313			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000313			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR4
Sample Depth: Field Blank-5

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000314			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000314			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000314			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000314			75-35-4	1,1-Dichloroethene	ug/L	119	<0.172	<0.191	n/a	n/a	n/a	107	0.191	n/a	U
S10V000314			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000314			71-36-3	1-Butanol	ug/L	89.1	<1.15	<1.28	n/a	n/a	n/a	80.7	1.28	n/a	U
S10V000314			108-10-1	Hexone	ug/L	112	<0.453	<0.503	n/a	n/a	n/a	99.0	0.503	n/a	U
S10V000314			67-64-1	Acetone 3.65U	ug/L	152	21.6	3.65	n/a	n/a	n/a	98.2	0.637	n/a	BJa
S10V000314			71-43-2	Benzene	ug/L	101	<0.0163	0.0524	n/a	n/a	n/a	92.1	0.0181	n/a	J
S10V000314			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000314			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000314			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.500	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000314			108-90-7	Chlorobenzene	ug/L	102	<0.0320	<0.0356	n/a	n/a	n/a	94.2	0.0356	n/a	U
S10V000314			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000314			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000314			78-93-3	2-Butanone	ug/L	95.8	<0.458	<0.509	n/a	n/a	n/a	87.2	0.509	n/a	U
S10V000314			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000314			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000314			108-88-3	Toluene 0.163U	ug/L	103	0.0699	0.163	n/a	n/a	n/a	97.0	0.0580	n/a	BJ
S10V000314			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000314			79-01-6	Trichloroethene	ug/L	98.7	<0.0378	<0.0420	n/a	n/a	n/a	88.0	0.0420	n/a	U
S10V000314			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000314			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000314			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000314			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000314			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000314			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000314			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR4
Sample Depth: Field Blank-5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000314			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000314			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000314			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR5
Sample Depth: Field Blank-6

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000315			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000315			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000315			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000315			75-35-4	1,1-Dichloroethene	ug/L	109	<0.172	<0.191	n/a	n/a	n/a	105	0.191	n/a	U
S10V000315			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000315			71-36-3	1-Butanol UJ	ug/L	77.1	<1.15	<1.28	n/a	n/a	n/a	68.7	1.28	n/a	Ub
S10V000315			108-10-1	Hexone	ug/L	109	<0.453	<0.503	n/a	n/a	n/a	93.6	0.503	n/a	U
S10V000315			67-64-1	Acetone 2.89U	ug/L	160	25.7	2.89	n/a	n/a	n/a	97.9	0.637	n/a	BJa
S10V000315			71-43-2	Benzene	ug/L	97.8	0.0422	<0.0181	n/a	n/a	n/a	95.0	0.0181	n/a	U
S10V000315			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000315			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000315			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.533	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000315			108-90-7	Chlorobenzene	ug/L	96.5	<0.0320	<0.0356	n/a	n/a	n/a	95.1	0.0356	n/a	U
S10V000315			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000315			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000315			78-93-3	2-Butanone	ug/L	94.3	1.51	<0.509	n/a	n/a	n/a	83.4	0.509	n/a	U
S10V000315			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000315			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000315			108-88-3	Toluene 0.126U	ug/L	99.3	0.0553	0.126	n/a	n/a	n/a	99.9	0.0580	n/a	BJ
S10V000315			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000315			79-01-6	Trichloroethene	ug/L	93.7	<0.0378	<0.0420	n/a	n/a	n/a	93.6	0.0420	n/a	U
S10V000315			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000315			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000315			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000315			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000315			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000315			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000315			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR5
Sample Depth: Field Blank-6

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000315			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000315			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000315			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR6
Sample Depth: Field Blank-7

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000316			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000316			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000316			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000316			75-35-4	1,1-Dichloroethene	ug/L	109	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000316			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000316			71-36-3	1-Butanol UJ	ug/L	77.1	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	Ub
S10V000316			108-10-1	Hexone	ug/L	109	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000316			67-64-1	Acetone	ug/L	160	25.7	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	Ua
S10V000316			71-43-2	Benzene 0.0437U	ug/L	97.8	0.0422	0.0437	n/a	n/a	n/a	n/a	0.0181	n/a	BJ
S10V000316			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000316			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000316			67-66-3	Chloroform	ug/L	n/a	<0.0414	1.11	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000316			108-90-7	Chlorobenzene	ug/L	96.5	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000316			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000316			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000316			78-93-3	2-Butanone	ug/L	94.3	1.51	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000316			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000316			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000316			108-88-3	Toluene 0.262U	ug/L	99.3	0.0553	0.262	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V000316			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000316			79-01-6	Trichloroethene	ug/L	93.7	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000316			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000316			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000316			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000316			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000316			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000316			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V000316			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR6
Sample Depth: Field Blank-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000316			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000316			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000316			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR7
Sample Depth: Field Blank-8

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000317			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V000317			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V000317			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V000317			75-35-4	1,1-Dichloroethene	ug/L	101	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000317			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V000317			71-36-3	1-Butanol	ug/L	81.7	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000317			591-78-6	2-Hexanone J	ug/L	n/a	<0.454	0.776	n/a	n/a	n/a	n/a	0.505	n/a	J
S10V000317			108-10-1	Hexone	ug/L	123	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000317			67-64-1	Acetone 3.45U	ug/L	172	30.5	3.45	n/a	n/a	n/a	n/a	0.637	n/a	BJa
S10V000317			71-43-2	Benzene	ug/L	95.1	<0.0163	0.0585	n/a	n/a	n/a	n/a	0.0181	n/a	J
S10V000317			75-15-0	Carbon disulfide UJ	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000317			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000317			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.938	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000317			108-90-7	Chlorobenzene	ug/L	102	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000317			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V000317			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000317			78-93-3	2-Butanone	ug/L	97.1	1.66	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000317			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000317			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V000317			108-88-3	Toluene	ug/L	104	<0.0522	0.102	n/a	n/a	n/a	n/a	0.0580	n/a	J
S10V000317			10061-02-6	trans-1,3-Dichloropropene UJ	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000317			79-01-6	Trichloroethene	ug/L	90.6	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000317			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V000317			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V000317			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000317			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V000317			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V000317			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100160
Core Number: C7670
Customer Sample ID: B23MR7
Sample Depth: Field Blank-8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000317			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V000317			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V000317			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V000317			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN6
Sample Depth: Surface

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Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000368			71-55-6	1,1,1-Trichloroethane	UJ	ug/kg	n/a	<0.0920	<0.0757	n/a	n/a	n/a	n/a	0.0757	n/a	U
S10V000368			79-00-5	1,1,2-Trichloroethane	UJ	ug/kg	n/a	<0.166	<0.136	n/a	n/a	n/a	n/a	0.136	n/a	U
S10V000368			79-34-5	1,1,2,2-Tetrachloroethane	UJ	ug/kg	n/a	<0.212	<0.174	n/a	n/a	n/a	n/a	0.174	n/a	U
S10V000368			75-35-4	1,1-Dichloroethene	UJ	ug/kg	115	<0.423	<0.348	n/a	n/a	n/a	102	0.348	n/a	U
S10V000368			107-06-2	1,2-Dichloroethane	UJ	ug/kg	n/a	<0.0538	<0.0442	n/a	n/a	n/a	n/a	0.0442	n/a	U
S10V000368			71-36-3	1-Butanol	UJ	ug/kg	102	<10.3	<8.46	n/a	n/a	n/a	111	8.46	n/a	U
S10V000368			108-10-1	Hexone	UJ	ug/kg	126	<1.71	<1.40	n/a	n/a	n/a	140	1.40	n/a	U
S10V000368			67-64-1	Acetone	UJ	ug/kg	101	<2.20	<1.81	n/a	n/a	n/a	122	1.81	n/a	U
S10V000368			71-43-2	Benzene	UJ	ug/kg	103	<0.147	<0.121	n/a	n/a	n/a	94.5	0.121	n/a	U
S10V000368			75-15-0	Carbon disulfide	UJ	ug/kg	n/a	<0.161	<0.132	n/a	n/a	n/a	n/a	0.132	n/a	U
S10V000368			56-23-5	Carbon tetrachloride	UJ	ug/kg	n/a	<0.0934	<0.0768	n/a	n/a	n/a	n/a	0.0768	n/a	U
S10V000368			67-66-3	Chloroform	UJ	ug/kg	n/a	<0.131	<0.108	n/a	n/a	n/a	n/a	0.108	n/a	U
S10V000368			108-90-7	Chlorobenzene	UJ	ug/kg	107	<0.0864	<0.0711	n/a	n/a	n/a	96.9	0.0711	n/a	U
S10V000368			100-41-4	Ethylbenzene	UJ	ug/kg	n/a	<0.107	<0.0882	n/a	n/a	n/a	n/a	0.0882	n/a	U
S10V000368			1330-20-7	Xylenes (total)	UJ	ug/kg	n/a	<0.203	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S10V000368			78-93-3	2-Butanone	UJ	ug/kg	108	<1.96	<1.62	n/a	n/a	n/a	122	1.62	n/a	U
S10V000368			75-09-2	Methylenechloride	UJ	ug/kg	n/a	<0.0640	<0.0526	n/a	n/a	n/a	n/a	0.0526	n/a	U
S10V000368			127-18-4	Tetrachloroethene	UJ	ug/kg	n/a	<0.110	<0.0903	n/a	n/a	n/a	n/a	0.0903	n/a	U
S10V000368			108-88-3	Toluene	0.360UJ	ug/kg	107	0.287	0.360	n/a	n/a	n/a	97.5	0.0660	n/a	BJ
S10V000368			10061-02-6	trans-1,3-Dichloropropene	UJ	ug/kg	n/a	<0.271	<0.223	n/a	n/a	n/a	n/a	0.223	n/a	U
S10V000368			79-01-6	Trichloroethene	UJ	ug/kg	98.7	<0.121	<0.0995	n/a	n/a	n/a	88.2	0.0995	n/a	U
S10V000368			75-01-4	Vinyl chloride	UJ	ug/kg	n/a	<0.173	<0.143	n/a	n/a	n/a	n/a	0.143	n/a	U
S10V000368			156-59-2	cis-Dichloroethylene	UJ	ug/kg	n/a	<0.182	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S10V000368			156-60-5	trans-Dichloroethylene	UJ	ug/kg	n/a	<0.303	<0.249	n/a	n/a	n/a	n/a	0.249	n/a	U
S10V000368			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	UJ	ug/kg	n/a	<0.116	<0.0956	n/a	n/a	n/a	n/a	0.0956	n/a	U
S10V000368			79-46-9	2-Nitropropane	UJ	ug/kg	n/a	<0.588	<0.484	n/a	n/a	n/a	n/a	0.484	n/a	U
S10V000368			141-78-6	Ethyl acetate	UJ	ug/kg	n/a	<0.587	<0.483	n/a	n/a	n/a	n/a	0.483	n/a	U
S10V000368			60-29-7	Diethyl ether	UJ	ug/kg	n/a	<0.256	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN6
Sample Depth: Surface

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5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000368			75-69-4	Trichlorofluoromethane	UJ	ug/kg	n/a	<0.0940	<0.0773	n/a	n/a	n/a	n/a	0.0773	n/a	U
S10V000368			95-47-6	o-Xylene	UJ	ug/kg	n/a	<0.0920	<0.0757	n/a	n/a	n/a	n/a	0.0757	n/a	U
S10V000368			179601-23-1	m,p-Xylene	UJ	ug/kg	n/a	<0.167	<0.138	n/a	n/a	n/a	n/a	0.138	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN9
Sample Depth: Surface Dup

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5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000369			71-55-6	1,1,1-Trichloroethane	UJ	ug/kg	n/a	<0.0920	<0.0832	n/a	n/a	n/a	n/a	0.0832	n/a	U
S10V000369			79-00-5	1,1,2-Trichloroethane	UJ	ug/kg	n/a	<0.166	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S10V000369			79-34-5	1,1,2,2-Tetrachloroethane	UJ	ug/kg	n/a	<0.212	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000369			75-35-4	1,1-Dichloroethene	UJ	ug/kg	115	<0.423	<0.383	n/a	n/a	n/a	n/a	0.383	n/a	U
S10V000369			107-06-2	1,2-Dichloroethane	UJ	ug/kg	n/a	<0.0538	<0.0486	n/a	n/a	n/a	n/a	0.0486	n/a	U
S10V000369			71-36-3	1-Butanol	J	ug/kg	102	<10.3	22.2	n/a	n/a	n/a	n/a	9.31	n/a	J
S10V000369			108-10-1	Hexone	UJ	ug/kg	126	<1.71	<1.54	n/a	n/a	n/a	n/a	1.54	n/a	U
S10V000369			67-64-1	Acetone	UJ	ug/kg	101	<2.20	<1.99	n/a	n/a	n/a	n/a	1.99	n/a	U
S10V000369			71-43-2	Benzene	UJ	ug/kg	103	<0.147	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S10V000369			75-15-0	Carbon disulfide	UJ	ug/kg	n/a	<0.161	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S10V000369			56-23-5	Carbon tetrachloride	UJ	ug/kg	n/a	<0.0934	<0.0844	n/a	n/a	n/a	n/a	0.0844	n/a	U
S10V000369			67-66-3	Chloroform	UJ	ug/kg	n/a	<0.131	<0.118	n/a	n/a	n/a	n/a	0.118	n/a	U
S10V000369			108-90-7	Chlorobenzene	UJ	ug/kg	107	<0.0864	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U
S10V000369			100-41-4	Ethylbenzene	UJ	ug/kg	n/a	<0.107	<0.0969	n/a	n/a	n/a	n/a	0.0969	n/a	U
S10V000369			1330-20-7	Xylenes (total)	UJ	ug/kg	n/a	<0.203	<0.184	n/a	n/a	n/a	n/a	0.184	n/a	U
S10V000369			78-93-3	2-Butanone	UJ	ug/kg	108	<1.96	<1.78	n/a	n/a	n/a	n/a	1.78	n/a	U
S10V000369			75-09-2	Methylenechloride	UJ	ug/kg	n/a	<0.0640	<0.0579	n/a	n/a	n/a	n/a	0.0579	n/a	U
S10V000369			127-18-4	Tetrachloroethene	UJ	ug/kg	n/a	<0.110	<0.0993	n/a	n/a	n/a	n/a	0.0993	n/a	U
S10V000369			108-88-3	Toluene	0.416UJ	ug/kg	107	0.287	0.416	n/a	n/a	n/a	n/a	0.0725	n/a	BJ
S10V000369			10061-02-6	trans-1,3-Dichloropropene	UJ	ug/kg	n/a	<0.271	<0.245	n/a	n/a	n/a	n/a	0.245	n/a	U
S10V000369			79-01-6	Trichloroethene	UJ	ug/kg	98.7	<0.121	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S10V000369			75-01-4	Vinyl chloride	UJ	ug/kg	n/a	<0.173	<0.157	n/a	n/a	n/a	n/a	0.157	n/a	U
S10V000369			156-59-2	cis-Dichloroethylene	UJ	ug/kg	n/a	<0.182	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S10V000369			156-60-5	trans-Dichloroethylene	UJ	ug/kg	n/a	<0.303	<0.274	n/a	n/a	n/a	n/a	0.274	n/a	U
S10V000369			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	UJ	ug/kg	n/a	<0.116	<0.105	n/a	n/a	n/a	n/a	0.105	n/a	U
S10V000369			79-46-9	2-Nitropropane	UJ	ug/kg	n/a	<0.588	<0.532	n/a	n/a	n/a	n/a	0.532	n/a	U
S10V000369			141-78-6	Ethyl acetate	UJ	ug/kg	n/a	<0.587	<0.531	n/a	n/a	n/a	n/a	0.531	n/a	U
S10V000369			60-29-7	Diethyl ether	UJ	ug/kg	n/a	<0.256	<0.232	n/a	n/a	n/a	n/a	0.232	n/a	U

NA = Not Analyzed, ND = Not Detected

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN9
Sample Depth: Surface Dup

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Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000369			75-69-4	Trichlorofluoromethane	UJ	ug/kg	n/a	<0.0940	<0.0850	n/a	n/a	n/a	n/a	0.0850	n/a	U
S10V000369			95-47-6	o-Xylene	UJ	ug/kg	n/a	<0.0920	<0.0832	n/a	n/a	n/a	n/a	0.0832	n/a	U
S10V000369			179601-23-1	m,p-Xylene	UJ	ug/kg	n/a	<0.167	<0.151	n/a	n/a	n/a	n/a	0.151	n/a	U

NA = Not Analyzed, ND = Not Detected

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN4
Sample Depth: 5-7

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000370			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0941	n/a	n/a	n/a	n/a	0.0941	n/a	U
S10V000370			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.170	n/a	n/a	n/a	n/a	0.170	n/a	U
S10V000370			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.216	n/a	n/a	n/a	n/a	0.216	n/a	U
S10V000370			75-35-4	1,1-Dichloroethene	ug/kg	115	<0.423	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U
S10V000370			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0550	n/a	n/a	n/a	n/a	0.0550	n/a	U
S10V000370			71-36-3	1-Butanol	ug/kg	102	<10.3	<10.5	n/a	n/a	n/a	n/a	10.5	n/a	U
S10V000370			108-10-1	Hexone	ug/kg	126	<1.71	<1.75	n/a	n/a	n/a	n/a	1.75	n/a	U
S10V000370			67-64-1	Acetone	ug/kg	101	<2.20	<2.25	n/a	n/a	n/a	n/a	2.25	n/a	U
S10V000370			71-43-2	Benzene	ug/kg	103	<0.147	<0.151	n/a	n/a	n/a	n/a	0.151	n/a	U
S10V000370			75-15-0	Carbon disulfide UJ	ug/kg	n/a	<0.161	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S10V000370			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0955	n/a	n/a	n/a	n/a	0.0955	n/a	U
S10V000370			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.134	n/a	n/a	n/a	n/a	0.134	n/a	U
S10V000370			108-90-7	Chlorobenzene	ug/kg	107	<0.0864	<0.0883	n/a	n/a	n/a	n/a	0.0883	n/a	U
S10V000370			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.110	n/a	n/a	n/a	n/a	0.110	n/a	U
S10V000370			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.208	n/a	n/a	n/a	n/a	0.208	n/a	U
S10V000370			78-93-3	2-Butanone	ug/kg	108	<1.96	<2.01	n/a	n/a	n/a	n/a	2.01	n/a	U
S10V000370			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0654	n/a	n/a	n/a	n/a	0.0654	n/a	U
S10V000370			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.112	n/a	n/a	n/a	n/a	0.112	n/a	U
S10V000370			108-88-3	Toluene 0.598U	ug/kg	107	0.287	0.598	n/a	n/a	n/a	n/a	0.0820	n/a	BJ
S10V000370			10061-02-6	trans-1,3-Dichloropropene UJ	ug/kg	n/a	<0.271	<0.277	n/a	n/a	n/a	n/a	0.277	n/a	U
S10V000370			79-01-6	Trichloroethene	ug/kg	98.7	<0.121	<0.124	n/a	n/a	n/a	n/a	0.124	n/a	U
S10V000370			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.177	n/a	n/a	n/a	n/a	0.177	n/a	U
S10V000370			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.186	n/a	n/a	n/a	n/a	0.186	n/a	U
S10V000370			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.310	n/a	n/a	n/a	n/a	0.310	n/a	U
S10V000370			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U
S10V000370			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.601	n/a	n/a	n/a	n/a	0.601	n/a	U
S10V000370			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.600	n/a	n/a	n/a	n/a	0.600	n/a	U
S10V000370			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.262	n/a	n/a	n/a	n/a	0.262	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN4
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000370			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0961	n/a	n/a	n/a	n/a	0.0961	n/a	U
S10V000370			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0941	n/a	n/a	n/a	n/a	0.0941	n/a	U
S10V000370			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.171	n/a	n/a	n/a	n/a	0.171	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP2
Sample Depth: 10-12

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000371			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0878	n/a	n/a	n/a	n/a	0.0878	n/a	U
S10V000371			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.158	n/a	n/a	n/a	n/a	0.158	n/a	U
S10V000371			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.202	n/a	n/a	n/a	n/a	0.202	n/a	U
S10V000371			75-35-4	1,1-Dichloroethene	ug/kg	102	<0.423	<0.404	n/a	n/a	n/a	95.1	0.404	n/a	U
S10V000371			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0513	n/a	n/a	n/a	n/a	0.0513	n/a	U
S10V000371			71-36-3	1-Butanol	ug/kg	114	<10.3	<9.82	n/a	n/a	n/a	140	9.82	n/a	U
S10V000371			108-10-1	Hexone	ug/kg	132	<1.71	<1.63	n/a	n/a	n/a	156	1.63	n/a	Ub
S10V000371			67-64-1	Acetone J	ug/kg	95.1	<2.20	46.2	n/a	n/a	n/a	175	2.10	n/a	b
S10V000371			71-43-2	Benzene	ug/kg	96.5	<0.147	<0.141	n/a	n/a	n/a	92.1	0.141	n/a	U
S10V000371			75-15-0	Carbon disulfide UJ	ug/kg	n/a	<0.161	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S10V000371			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0891	n/a	n/a	n/a	n/a	0.0891	n/a	U
S10V000371			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.125	n/a	n/a	n/a	n/a	0.125	n/a	U
S10V000371			108-90-7	Chlorobenzene	ug/kg	101	<0.0864	<0.0824	n/a	n/a	n/a	95.2	0.0824	n/a	U
S10V000371			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.102	n/a	n/a	n/a	n/a	0.102	n/a	U
S10V000371			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S10V000371			78-93-3	2-Butanone	ug/kg	115	<1.96	<1.87	n/a	n/a	n/a	136	1.87	n/a	Ub
S10V000371			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0611	n/a	n/a	n/a	n/a	0.0611	n/a	U
S10V000371			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.105	n/a	n/a	n/a	n/a	0.105	n/a	U
S10V000371			108-88-3	Toluene 0.325U	ug/kg	101	0.115	0.325	n/a	n/a	n/a	94.7	0.0765	n/a	BJ
S10V000371			10061-02-6	trans-1,3-Dichloropropene UJ	ug/kg	n/a	<0.271	<0.259	n/a	n/a	n/a	n/a	0.259	n/a	U
S10V000371			79-01-6	Trichloroethene	ug/kg	92.0	<0.121	<0.115	n/a	n/a	n/a	86.4	0.115	n/a	U
S10V000371			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U
S10V000371			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.173	n/a	n/a	n/a	n/a	0.173	n/a	U
S10V000371			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.289	n/a	n/a	n/a	n/a	0.289	n/a	U
S10V000371			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S10V000371			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.561	n/a	n/a	n/a	n/a	0.561	n/a	U
S10V000371			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.560	n/a	n/a	n/a	n/a	0.560	n/a	U
S10V000371			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.244	n/a	n/a	n/a	n/a	0.244	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP2
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000371			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0897	n/a	n/a	n/a	n/a	0.0897	n/a	U
S10V000371			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0878	n/a	n/a	n/a	n/a	0.0878	n/a	U
S10V000371			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.160	n/a	n/a	n/a	n/a	0.160	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP8
Sample Depth: 14-16

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000373			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0764	n/a	n/a	n/a	n/a	0.0764	n/a	U
S10V000373			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.138	n/a	n/a	n/a	n/a	0.138	n/a	U
S10V000373			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.176	n/a	n/a	n/a	n/a	0.176	n/a	U
S10V000373			75-35-4	1,1-Dichloroethene	ug/kg	102	<0.423	<0.352	n/a	n/a	n/a	n/a	0.352	n/a	U
S10V000373			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0447	n/a	n/a	n/a	n/a	0.0447	n/a	U
S10V000373			71-36-3	1-Butanol	ug/kg	114	<10.3	<8.55	n/a	n/a	n/a	n/a	8.55	n/a	U
S10V000373			108-10-1	Hexone	ug/kg	132	<1.71	<1.42	n/a	n/a	n/a	n/a	1.42	n/a	Ub
S10V000373			67-64-1	Acetone	ug/kg	95.1	<2.20	<1.83	n/a	n/a	n/a	n/a	1.83	n/a	Ub
S10V000373			71-43-2	Benzene	ug/kg	96.5	<0.147	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S10V000373			75-15-0	Carbon disulfide UJ	ug/kg	n/a	<0.161	<0.134	n/a	n/a	n/a	n/a	0.134	n/a	U
S10V000373			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0776	n/a	n/a	n/a	n/a	0.0776	n/a	U
S10V000373			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S10V000373			108-90-7	Chlorobenzene	ug/kg	101	<0.0864	<0.0718	n/a	n/a	n/a	n/a	0.0718	n/a	U
S10V000373			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0890	n/a	n/a	n/a	n/a	0.0890	n/a	U
S10V000373			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.169	n/a	n/a	n/a	n/a	0.169	n/a	U
S10V000373			78-93-3	2-Butanone	ug/kg	115	<1.96	<1.63	n/a	n/a	n/a	n/a	1.63	n/a	Ub
S10V000373			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000373			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.0912	n/a	n/a	n/a	n/a	0.0912	n/a	U
S10V000373			108-88-3	Toluene 0.351U	ug/kg	101	0.115	0.351	n/a	n/a	n/a	n/a	0.0666	n/a	BJ
S10V000373			10061-02-6	trans-1,3-Dichloropropene UJ	ug/kg	n/a	<0.271	<0.225	n/a	n/a	n/a	n/a	0.225	n/a	U
S10V000373			79-01-6	Trichloroethene	ug/kg	92.0	<0.121	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S10V000373			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S10V000373			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.151	n/a	n/a	n/a	n/a	0.151	n/a	U
S10V000373			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.252	n/a	n/a	n/a	n/a	0.252	n/a	U
S10V000373			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.0965	n/a	n/a	n/a	n/a	0.0965	n/a	U
S10V000373			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.488	n/a	n/a	n/a	n/a	0.488	n/a	U
S10V000373			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.488	n/a	n/a	n/a	n/a	0.488	n/a	U
S10V000373			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.213	n/a	n/a	n/a	n/a	0.213	n/a	U

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a - LCS Outside Range
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c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP8
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000373			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U
S10V000373			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0764	n/a	n/a	n/a	n/a	0.0764	n/a	U
S10V000373			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.139	n/a	n/a	n/a	n/a	0.139	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR1
Sample Depth: 39-41

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000374			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0841	n/a	n/a	n/a	n/a	0.0841	n/a	U
S10V000374			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.152	n/a	n/a	n/a	n/a	0.152	n/a	U
S10V000374			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.193	n/a	n/a	n/a	n/a	0.193	n/a	U
S10V000374			75-35-4	1,1-Dichloroethene	ug/kg	92.3	<0.423	<0.387	n/a	n/a	n/a	96.7	0.387	n/a	U
S10V000374			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0492	n/a	n/a	n/a	n/a	0.0492	n/a	U
S10V000374			71-36-3	1-Butanol	ug/kg	99.0	<10.3	<9.41	n/a	n/a	n/a	120	9.41	n/a	U
S10V000374			108-10-1	Hexone	ug/kg	126	<1.71	<1.56	n/a	n/a	n/a	138	1.56	n/a	U
S10V000374			67-64-1	Acetone J	ug/kg	86.0	<2.20	72.5	n/a	n/a	n/a	95.7	2.01	n/a	c
S10V000374			71-43-2	Benzene	ug/kg	90.8	<0.147	<0.135	n/a	n/a	n/a	94.2	0.135	n/a	U
S10V000374			75-15-0	Carbon disulfide UJ	ug/kg	n/a	<0.161	<0.147	n/a	n/a	n/a	n/a	0.147	n/a	U
S10V000374			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0854	n/a	n/a	n/a	n/a	0.0854	n/a	U
S10V000374			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.120	n/a	n/a	n/a	n/a	0.120	n/a	U
S10V000374			108-90-7	Chlorobenzene	ug/kg	94.1	<0.0864	<0.0790	n/a	n/a	n/a	98.0	0.0790	n/a	U
S10V000374			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0980	n/a	n/a	n/a	n/a	0.0980	n/a	U
S10V000374			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.186	n/a	n/a	n/a	n/a	0.186	n/a	U
S10V000374			78-93-3	2-Butanone	ug/kg	107	<1.96	<1.80	n/a	n/a	n/a	117	1.80	n/a	U
S10V000374			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0585	n/a	n/a	n/a	n/a	0.0585	n/a	U
S10V000374			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S10V000374			108-88-3	Toluene 0.360U	ug/kg	94.5	0.183	0.360	n/a	n/a	n/a	97.7	0.0733	n/a	BJ
S10V000374			10061-02-6	trans-1,3-Dichloropropene UJ	ug/kg	n/a	<0.271	<0.248	n/a	n/a	n/a	n/a	0.248	n/a	U
S10V000374			79-01-6	Trichloroethene	ug/kg	86.8	<0.121	<0.111	n/a	n/a	n/a	90.8	0.111	n/a	U
S10V000374			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.158	n/a	n/a	n/a	n/a	0.158	n/a	U
S10V000374			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.166	n/a	n/a	n/a	n/a	0.166	n/a	U
S10V000374			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.277	n/a	n/a	n/a	n/a	0.277	n/a	U
S10V000374			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.106	n/a	n/a	n/a	n/a	0.106	n/a	U
S10V000374			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.537	n/a	n/a	n/a	n/a	0.537	n/a	U
S10V000374			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.537	n/a	n/a	n/a	n/a	0.537	n/a	U
S10V000374			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.234	n/a	n/a	n/a	n/a	0.234	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR1
Sample Depth: 39-41

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000374			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0859	n/a	n/a	n/a	n/a	0.0859	n/a	U
S10V000374			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0841	n/a	n/a	n/a	n/a	0.0841	n/a	U
S10V000374			179601-23-1	m,p-Xylene	ug/kg	n/a	0.172	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR4
Sample Depth: 139-141

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000375			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0920	n/a	n/a	n/a	n/a	0.0920	n/a	U
S10V000375			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.166	n/a	n/a	n/a	n/a	0.166	n/a	U
S10V000375			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.212	n/a	n/a	n/a	n/a	0.212	n/a	U
S10V000375			75-35-4	1,1-Dichloroethene	ug/kg	116	<0.423	<0.423	n/a	n/a	n/a	n/a	0.423	n/a	U
S10V000375			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0538	n/a	n/a	n/a	n/a	0.0538	n/a	U
S10V000375			71-36-3	1-Butanol	ug/kg	84.0	<10.3	<10.3	n/a	n/a	n/a	n/a	10.3	n/a	U
S10V000375			108-10-1	Hexone	ug/kg	126	<1.71	<1.71	n/a	n/a	n/a	n/a	1.71	n/a	U
S10V000375			67-64-1	Acetone	ug/kg	126	<2.20	<2.20	n/a	n/a	n/a	n/a	2.20	n/a	Ub
S10V000375			71-43-2	Benzene	ug/kg	108	<0.147	<0.147	n/a	n/a	n/a	n/a	0.147	n/a	U
S10V000375			75-15-0	Carbon disulfide UJ	ug/kg	n/a	<0.161	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S10V000375			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0934	n/a	n/a	n/a	n/a	0.0934	n/a	U
S10V000375			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.131	n/a	n/a	n/a	n/a	0.131	n/a	U
S10V000375			108-90-7	Chlorobenzene	ug/kg	108	<0.0864	<0.0864	n/a	n/a	n/a	n/a	0.0864	n/a	U
S10V000375			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.107	n/a	n/a	n/a	n/a	0.107	n/a	U
S10V000375			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.203	n/a	n/a	n/a	n/a	0.203	n/a	U
S10V000375			78-93-3	2-Butanone	ug/kg	105	<1.96	<1.96	n/a	n/a	n/a	n/a	1.96	n/a	U
S10V000375			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0640	n/a	n/a	n/a	n/a	0.0640	n/a	U
S10V000375			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.110	n/a	n/a	n/a	n/a	0.110	n/a	U
S10V000375			108-88-3	Toluene	ug/kg	109	<0.0802	0.331	n/a	n/a	n/a	n/a	0.0802	n/a	J
S10V000375			10061-02-6	trans-1,3-Dichloropropene UJ	ug/kg	n/a	<0.271	<0.271	n/a	n/a	n/a	n/a	0.271	n/a	U
S10V000375			79-01-6	Trichloroethene	ug/kg	101	<0.121	<0.121	n/a	n/a	n/a	n/a	0.121	n/a	U
S10V000375			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.173	n/a	n/a	n/a	n/a	0.173	n/a	U
S10V000375			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.182	n/a	n/a	n/a	n/a	0.182	n/a	U
S10V000375			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.303	n/a	n/a	n/a	n/a	0.303	n/a	U
S10V000375			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.116	n/a	n/a	n/a	n/a	0.116	n/a	U
S10V000375			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.588	n/a	n/a	n/a	n/a	0.588	n/a	U
S10V000375			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.587	n/a	n/a	n/a	n/a	0.587	n/a	U
S10V000375			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.256	n/a	n/a	n/a	n/a	0.256	n/a	U

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c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR4
Sample Depth: 139-141

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000375			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0940	n/a	n/a	n/a	n/a	0.0940	n/a	U
S10V000375			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0920	n/a	n/a	n/a	n/a	0.0920	n/a	U
S10V000375			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U

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b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR7
Sample Depth: 163-165

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000376			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0827	n/a	n/a	n/a	n/a	0.0827	n/a	U
S10V000376			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S10V000376			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.190	n/a	n/a	n/a	n/a	0.190	n/a	U
S10V000376			75-35-4	1,1-Dichloroethene	ug/kg	116	<0.423	<0.381	n/a	n/a	n/a	111	0.381	n/a	U
S10V000376			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0484	n/a	n/a	n/a	n/a	0.0484	n/a	U
S10V000376			71-36-3	1-Butanol	ug/kg	84.0	<10.3	<9.26	n/a	n/a	n/a	102	9.26	n/a	U
S10V000376			108-10-1	Hexone	ug/kg	126	<1.71	<1.54	n/a	n/a	n/a	139	1.54	n/a	U
S10V000376			67-64-1	Acetone	ug/kg	126	<2.20	<1.98	n/a	n/a	n/a	150	1.98	n/a	Ub
S10V000376			71-43-2	Benzene	ug/kg	108	<0.147	<0.133	n/a	n/a	n/a	105	0.133	n/a	U
S10V000376			75-15-0	Carbon disulfide UJ	ug/kg	n/a	<0.161	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S10V000376			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0840	n/a	n/a	n/a	n/a	0.0840	n/a	U
S10V000376			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.118	n/a	n/a	n/a	n/a	0.118	n/a	U
S10V000376			108-90-7	Chlorobenzene	ug/kg	108	<0.0864	<0.0777	n/a	n/a	n/a	100	0.0777	n/a	U
S10V000376			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0964	n/a	n/a	n/a	n/a	0.0964	n/a	U
S10V000376			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.183	n/a	n/a	n/a	n/a	0.183	n/a	U
S10V000376			78-93-3	2-Butanone	ug/kg	105	<1.96	<1.77	n/a	n/a	n/a	120	1.77	n/a	U
S10V000376			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0576	n/a	n/a	n/a	n/a	0.0576	n/a	U
S10V000376			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.0987	n/a	n/a	n/a	n/a	0.0987	n/a	U
S10V000376			108-88-3	Toluene	ug/kg	109	<0.0802	0.314	n/a	n/a	n/a	102	0.0721	n/a	J
S10V000376			10061-02-6	trans-1,3-Dichloropropene UJ	ug/kg	n/a	<0.271	<0.244	n/a	n/a	n/a	n/a	0.244	n/a	U
S10V000376			79-01-6	Trichloroethene	ug/kg	101	<0.121	<0.109	n/a	n/a	n/a	95.5	0.109	n/a	U
S10V000376			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.156	n/a	n/a	n/a	n/a	0.156	n/a	U
S10V000376			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.163	n/a	n/a	n/a	n/a	0.163	n/a	U
S10V000376			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.272	n/a	n/a	n/a	n/a	0.272	n/a	U
S10V000376			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V000376			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.529	n/a	n/a	n/a	n/a	0.529	n/a	U
S10V000376			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.528	n/a	n/a	n/a	n/a	0.528	n/a	U
S10V000376			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.230	n/a	n/a	n/a	n/a	0.230	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR7
Sample Depth: 163-165

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000376			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0845	n/a	n/a	n/a	n/a	0.0845	n/a	U
S10V000376			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0827	n/a	n/a	n/a	n/a	0.0827	n/a	U
S10V000376			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.151	n/a	n/a	n/a	n/a	0.151	n/a	U
S10V000682		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	63.8	<77.4	<75.8	n/a	n/a	n/a	n/a	75.8	n/a	U
S10V000682		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<98.6	n/a	n/a	n/a	n/a	98.6	n/a	U
S10V000682		O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.3	<38.1	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S10V000682		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.1	n/a	n/a	n/a	n/a	43.1	n/a	U
S10V000682		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.5	n/a	n/a	n/a	n/a	48.5	n/a	U
S10V000682		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.3	n/a	n/a	n/a	n/a	56.3	n/a	U
S10V000682		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.6	n/a	n/a	n/a	n/a	52.6	n/a	U
S10V000682		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S10V000682		O	83-32-9	Acenaphthene	ug/kg	67.9	<17.6	<17.2	n/a	n/a	n/a	n/a	17.2	n/a	U
S10V000682		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.0	n/a	n/a	n/a	n/a	37.0	n/a	U
S10V000682		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S10V000682		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.4	n/a	n/a	n/a	n/a	40.4	n/a	U
S10V000682		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<578	n/a	n/a	n/a	n/a	578	n/a	U
S10V000682		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.3	n/a	n/a	n/a	n/a	38.3	n/a	U
S10V000682		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	74.0	84.4	n/a	n/a	n/a	n/a	49.0	n/a	BJ
S10V000682		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	67.8	<43.2	<42.3	n/a	n/a	n/a	n/a	42.3	n/a	U
S10V000682		O	95-57-8	2-Chlorophenol	ug/kg	66.3	<66.5	<65.1	n/a	n/a	n/a	n/a	65.1	n/a	U
S10V000682		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<79.7	n/a	n/a	n/a	n/a	79.7	n/a	U
S10V000682		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.1	n/a	n/a	n/a	n/a	50.1	n/a	U
S10V000682		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<551	n/a	n/a	n/a	n/a	551	n/a	U
S10V000682		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.7	n/a	n/a	n/a	n/a	46.7	n/a	U
S10V000682		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	61.6	<58.1	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S10V000682		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.7	n/a	n/a	n/a	n/a	34.7	n/a	U
S10V000682		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.3	n/a	n/a	n/a	n/a	68.3	n/a	U
S10V000682		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KT3
Sample Depth: 222-224

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000378			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0765	n/a	n/a	n/a	n/a	0.0765	n/a	U
S10V000378			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.138	n/a	n/a	n/a	n/a	0.138	n/a	U
S10V000378			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.176	n/a	n/a	n/a	n/a	0.176	n/a	U
S10V000378			75-35-4	1,1-Dichloroethene	ug/kg	97.8	<0.423	<0.352	n/a	n/a	n/a	110	0.352	n/a	U
S10V000378			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0448	n/a	n/a	n/a	n/a	0.0448	n/a	U
S10V000378			71-36-3	1-Butanol	ug/kg	101	<10.3	<8.56	n/a	n/a	n/a	115	8.56	n/a	U
S10V000378			591-78-6	2-Hexanone 9.41U	ug/kg	143	3.60	9.41	n/a	n/a	n/a	210	1.97	n/a	BJb
S10V000378			108-10-1	Hexone	ug/kg	138	<1.71	<1.42	n/a	n/a	n/a	213	1.42	n/a	Ub
S10V000378			67-64-1	Acetone J	ug/kg	145	<2.20	21.5	n/a	n/a	n/a	175	1.83	n/a	Jab
S10V000378			71-43-2	Benzene	ug/kg	94.5	<0.147	0.395	n/a	n/a	n/a	98.0	0.123	n/a	J
S10V000378			75-15-0	Carbon disulfide UJ	ug/kg	n/a	<0.161	<0.134	n/a	n/a	n/a	n/a	0.134	n/a	U
S10V000378			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0777	n/a	n/a	n/a	n/a	0.0777	n/a	U
S10V000378			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S10V000378			108-90-7	Chlorobenzene	ug/kg	99.4	<0.0864	<0.0719	n/a	n/a	n/a	98.0	0.0719	n/a	U
S10V000378			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0892	n/a	n/a	n/a	n/a	0.0892	n/a	U
S10V000378			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.169	n/a	n/a	n/a	n/a	0.169	n/a	U
S10V000378			78-93-3	2-Butanone	ug/kg	109	<1.96	<1.63	n/a	n/a	n/a	156	1.63	n/a	Ub
S10V000378			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V000378			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.0913	n/a	n/a	n/a	n/a	0.0913	n/a	U
S10V000378			108-88-3	Toluene	ug/kg	102	<0.0802	0.325	n/a	n/a	n/a	103	0.0667	n/a	J
S10V000378			10061-02-6	trans-1,3-Dichloropropene UJ	ug/kg	n/a	<0.271	<0.225	n/a	n/a	n/a	n/a	0.225	n/a	U
S10V000378			79-01-6	Trichloroethene	ug/kg	91.3	<0.121	<0.101	n/a	n/a	n/a	83.1	0.101	n/a	U
S10V000378			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S10V000378			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.151	n/a	n/a	n/a	n/a	0.151	n/a	U
S10V000378			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.252	n/a	n/a	n/a	n/a	0.252	n/a	U
S10V000378			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.0967	n/a	n/a	n/a	n/a	0.0967	n/a	U
S10V000378			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.489	n/a	n/a	n/a	n/a	0.489	n/a	U
S10V000378			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.489	n/a	n/a	n/a	n/a	0.489	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KT3
Sample Depth: 222-224

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000378			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.213	n/a	n/a	n/a	n/a	0.213	n/a	U
S10V000378			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0782	n/a	n/a	n/a	n/a	0.0782	n/a	U
S10V000378			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0765	n/a	n/a	n/a	n/a	0.0765	n/a	U
S10V000378			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.139	n/a	n/a	n/a	n/a	0.139	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

Appendix 4

Laboratory Narrative and Chain-of-Custody Documentation

222-S LABORATORY

FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7670 IN SUPPORT OF RCRA SOIL CHARACTERIZATION

1.0 INTRODUCTION

This final report presents the results for the samples taken from Waste Management Area C between April 15, 2010 and May 11, 2010. The samples were analyzed in accordance with RPP-PLAN-40564, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C* (FSAP); RPP-PLAN-38777, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C* (SAP); ATL-MP-1011, *ATL Quality Assurance Project Plan for 222-S Laboratory* (QAPP); SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*; and the additional guidance given by the client's point of contact.

Because the 222-S Laboratory facility was designed to analyze hazardous and complex tank waste samples, most SW-846 test methods performed at the 222-S Laboratory contain deviations that are listed in an appendix in the analytical procedures. All other known deviations or variances from SW-846 are documented in this narrative. The following attachments are included in this report.

Attachment 1	Data Summary Report
Attachment 2	Sample Breakdown Diagrams
Attachment 3	Holding Time Report
Attachment 4	Additional Organic Analyses QC Results
Attachment 5	Tentatively Identified Compounds (TIC) for Organic Analyses
Attachment 6	Geological Report
Attachment 7	Characterization Change Notices (CCN) and Correspondence
Attachment 8	Receipt Paperwork

2.0 SAMPLE RECEIPT AND BREAKDOWN

2.1 SAMPLE RECEIPT

A total of nine core intervals and two surface grab samples from core hole C7670 along with eight field blanks and eight trip blanks were received by the 222-S Laboratory between April 15, 2010 and May 11, 2010. The samples were delivered in a cooler with ice or, in the case of the volatile organic samples, in a freezer. The temperatures of the temperature blanks were measured and recorded on the sample receipt check list and/or the chain of custody form.

2.2 SAMPLE BREAKDOWN

The laboratory received each core interval as a set of volatile organic analysis (VOA) samples and three liner samples when complete core recovery was obtained. The VOA samples were made from the shoe section of each core interval following SW-846 5035. The liner samples from each core interval were extruded, described, and composited by the Washington River Protection Solutions, Inc. (WRPS) geologist. The geologist's report is included in Attachment 6. Provided sufficient samples existed, the composite for each core interval was analyzed as described in the SAP and FSAP. Five core intervals (I002, I003, I004, I008, and I009) had less than full recovery (see Attachment 2 and Attachment 8). Interval I004 was extruded and composited in the normal manner. Interval I002 was combined with I003 to form a single composite. Interval I003 was taken immediately below I002 (see Attachment 7, CCN-WMAC-005). Interval I008 was combined with I009 to form a single composite. Interval I009 was taken immediately below I008 (see Attachment 7, CCN-WMAC-006). The surface samples were received as a single grab in a 500-mL jar and a set of VOA samples.

WRPS shipped subsamples of the composites to Test America Laboratories, Inc. (TAL) in St Louis, Missouri and Knoxville, Tennessee to be analyzed for dibutyl and monobutyl phosphate, total petroleum hydrocarbons (diesel and gasoline range), ethylene glycol, chlorinated pesticides, and polychlorinated biphenyls (Aroclors and congeners). TAL subsequently subcontracted the monobutyl and dibutyl phosphate analyses to Southwest Research Institute. The results of these analyses will be released in the final WRPS report.

3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results for those analytes requested in the SAP and FSAP. Secondary analytes are only reported if detected. The TIC from gas chromatography-mass spectrometry (GC/MS) analysis of semivolatile organic compounds (SVOC) is presented in Attachment 5. In addition to the required isotopes, all isotopes with positive gamma energy analysis (GEA) results were reported.

The "Det Limit" column in Attachment 1 contains the method detection limit (MDL) for non-radionuclide analyses, or the minimum detectable activity for radionuclides.

In Attachment 1, the column labeled "A#" indicates the aliquot class or the method used for sample preparation before analysis. For solid samples, the aliquot classes are defined as follows:

"A" indicates samples that were prepared by SW-846 3050B.

"E" indicates samples that were prepared by a strong acid digest.

"O" indicates samples that were extracted for organic analysis.

"S" indicates samples that were prepared by a distillation.

"W" indicates samples that were prepared by a standard water digest.

"WV" indicates samples that were prepared by a "Vadose" water digest.

Samples without a letter identifier in the "A#" column were analyzed directly with no separate preparation or with sample preparation performed as a part of the procedure steps.

The "Qual Flags" column in Attachment 1 contains data qualifier flags that are defined as follows:

> "B" is used to indicate that the analyte was detected in the method or preparation blank and in the sample, and the result for the blank was greater than 5% of the reported sample result.
>
> "J" indicates that the reported result should be considered an estimate because it is below the quantitation limit. The "J" flag is applied to sample concentrations that are greater than the MDL but less than the quantitation limit or sample activity with a counting uncertainty greater than 30%.
>
> "N" indicates a TIC which has been named.
>
> "T" indicates a TIC.
>
> "U" indicates that the reported result is less than the calculated detection limit.
>
> "a" indicates that the laboratory control sample (LCS) was outside of the specified range in the QAPP or SAP.
>
> "b" indicates that the matrix spike (MS) was outside of the specified range in the QAPP or SAP.
>
> "c" indicates that the relative percent difference (RPD) between the sample and the duplicate is greater than 30%.

Manual calculations using rounded results from the Data Summary Report (Attachment 1) or result calculation forms may differ slightly from the actual results derived from the raw data.

3.1 SAMPLE DIGESTIONS

3.1.1 Radiochemistry Strong Acid Digestion

Strong acid digestions with a hot plate for the heat source were performed using a mixture of concentrated nitric and hydrochloric acids. For each digest, approximately 1 to 10 g of sample was digested depending on the analysis being performed. The digestate was then filtered and diluted to a final volume. This digestion was used for all radiochemical analyses except ^{3}H, ^{14}C, and ^{129}I. This digestion is a leach of the acid soluble species only.

3.1.2 SW-846 3050B - Acid Digestion-Heating Block

This acid digestion follows SW-846 3050B using a heating block and nitric and hydrochloric acids. An aliquot of 0.25 g or 5 g of sample was digested. All heating-block digestions were filtered and diluted to a final volume of 50 mL. In soil, this digestion is a leach of the acid soluble species only. This digestion was used for all inductively coupled plasma/mass spectrometry (ICP/MS) and inductively coupled plasma/atomic emission spectroscopy (ICP/AES) analyses except for ^{99}Tc and isotopic tin (^{117}Sn and ^{126}Sn) analyses. The digestion is

modified for the ^{99}Tc analysis by using only nitric acid. This is done to eliminate the possibility of the formation a zinc-chlorine ion pair of mass 99. The laboratory believes this ion, when present, is responsible for low level false positives. A separate digestion for antimony was prepared using additional hydrochloric acid, as recommended in SW-846.

3.1.3 Water Digestion

A water digestion or leach was prepared for the anions by ion chromatography, ^{14}C, and ^{3}H analyses using approximately 0.25 to 4 g of sample diluted to 25 mL. Sonification was used, and the leachate was then filtered. In soil, this digestion is a leach of the water soluble species only.

3.1.4 Vadose Water Digestion

A 70-g sample of soil was leached using a ratio of one part water to one part soil. To maintain a one-to-one ratio, the amount of water added to the sample was adjusted based on the percent moisture of the soil. The slurries were placed on a shaker table for about 1 hour. They were then transferred to a centrifuge tube and centrifuged at 4,000 rpm for 30 minutes. An unfiltered aliquot was set aside for alkalinity analysis. The remainder was filtered using a disposable vacuum filtration system. The filtrates were transferred to a clean bottle and then analyzed for anions using IC nitrate analysis (intervals I005 to I010) and ^{99}Tc by ICP/MS analysis.

3.2 INORGANIC ANALYSES

3.2.1 Cyanide

The cyanide analysis by distillation and spectrophotometry was performed on direct subsamples of the grab samples and liner composite samples. All analyses met the SW-846 holding time of 14 days. There was no required reporting limit in the SAP for cyanide. The target detection limit was 0.5 µg/g, which is at least an order of magnitude lower than the current laboratory method (lachet micro-distillation) can reach.

Batches 19042 and 19150: There were no notable quality control (QC) issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19456: The low level standard (LLS) was recovered outside the ±25% requirement at 65%. Since the results were well below the MDL, there was no affect on data quality. Eleven samples were analyzed between the initial calibration blank and the next calibration verification standard (CCV). This did not meet the requirement in the QAPP; however, since there was no affect on the results, the data was accepted. Reanalysis would have exceeded the holding time for some samples in the batch.

3.2.2 Sulfide

Sulfide analysis by distillation and ion selective electrode was performed on direct subsamples of the grab samples and liner composite samples. All analyses met the SW-846 holding time of 7 days. There was no required reporting limit in the SAP for sulfide. The target detection limit was 5 µg/g. All sample results had adjusted MDLs of approximately 7 µg/g. There were no

notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.3 pH Analysis

The pH analysis was performed on the grab samples and liner composite samples. These analyses met all QC requirements in the FSAP, SAP, and QAPP. The FSAP lists a pH holding time requirement of "as soon as possible." All pH measurements were taken immediately after the water leach was performed, but the sampling to analysis date varied from 2 to 14 days (see Attachment 3). There is no correlation between pH results and days to analysis, and the results fall within an expected range for alkaline soils. This indicates that the variation in time has no apparent effect on the results. The lapse time of up to 6 days for the analysis was due to the time taken between sampling and extrusion/compositing of the liners; most samples fall in to this range. Three samples were analyzed between day 11 and day 14. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.4 Mercury

Analysis for mercury by cold-vapor graphic furnace/atomic absorption was performed on digested subsamples of the grab samples and liner composite samples. All results met the QC requirements in the FSAP, SAP, and QAPP. All analyses met the holding time of 28 days. This analysis met the required and target detection limits.

3.2.5 Ion Chromatography – Ammonium

Analysis for ammonium was performed using a distillation preparation of the grab samples and liner composite samples. The SAP lists an administrative holding time of 7 days. The laboratory believes that after distillation and preservation, the holding time is 28 days, based on U.S. Environmental Protection Agency drinking water and waste water holding times for preserved samples. There is no regulatory holding time limit promulgated for ammonium in soil. All samples met the SAP holding times. These analyses met the target detection limit listed in the SAP. There was no required reporting limit in the SAP or FSAP for ammonium.

Batches 19076, 19246, and 19420: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19029: Ammonium was detected in the preparation blanks at a level below the quantitation limit and above the MDL. Ammonium was also detected in the samples at a similar level; these results have been flagged with a "B". Since all results were below the quantitation limit, reanalysis was not required.

3.2.6 Ion Chromatography – Anions and Small Organic Acids

Ion chromatography analysis was performed on a standard water digest of subsamples from all grab samples and soil composite samples. The laboratory met all of the required and target detection limits. All analyses were within the applicable holding time. The sample spikes used for the standard water digestions are predigestion spikes. Due to the large aliquot size (approximately 70 g) used in the Vadose water digestion, the spikes were post-digestion.

Batches 19058, 19147, and 19446: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 22897: The preparation blank contained nitrite below the quantitation limit, but at greater than 5% of the sample results. All sample results have been flagged with a "B". Since the sample and blank results were below the quantitation level, reanalysis was not required. The RPD for acetate exceeded the ±30% requirement in the SAP and FSAP; however, since the sample result was below the quantitation limit, this criterion does not apply.

3.2.7 Inductively Coupled Plasma/Atomic Emission Spectroscopy

The ICP/AES analysis was performed on an acid-digest (SW-846 3050B) of all grab samples and liner composite samples. The ICP/AES analysis was unable to obtain the required detection limit for antimony, arsenic, cadmium, selenium, silver, and thallium. These elements have been reported from separate ICP/MS analyses. Lead is also reported for some samples. Total uranium has not been reported by the ICP/AES analysis since it cannot meet the required detection limits in the SAP. The isotopic uranium analysis by ICP/MS met the required detection limit for ^{238}U, which is essentially total uranium and can be used in place of ICP/AES total uranium. This does not affect the overall data usability. For all other metals reported by ICP/AES, all target and required detection limits were met. All analysis were within the SW-846 six month holding time.

Batch 19876: The ICSAB had results above the quantitation limits for neodymium and palladium. This indicates that spectral interference was occurring. Neodymium and palladium results were not reported due to the high probability that they were the result of interferences. Results slightly above the MDL for lead, manganese, and tungsten in the ICSA indicate a possible high bias for these elements. However, the recoveries of these elements in the ISCAB were within the ±20% requirement; this would indicate no significant bias. Low levels of iron, zinc, and calcium were detected in the preparation blank, but reanalysis was not required since these levels were less than 5% of the lowest sample result. The MS recoveries for aluminum, calcium, iron, magnesium, and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the sample results for these elements exceeded the matrix spike level by more than four times, this criterion does not apply. The MS recoveries for sodium, silicon, and zirconium exceeded the ±25% requirement. All sample results in this batch for sodium, silicon, and zirconium have been flagged with "b". The exact cause for these failures is not known, but it should be noted that this digestion is not one that should be used to report silicon from siliceous material. It should be noted that silicon is not listed with other elements in SW-846 3050B, section 1.1, under "Scope and Application" for the method. Since none of these were primary analytes, reanalysis was not required. The mid-run continuing calibration blank (CCB) demonstrated a zirconium result slightly above the MDL and below the quantitation level. The blank result was more that 5% of the sample results, and a "B" flag was applied. Since the blank result was below the quantitation limit, reanalysis was not required.

Batch 20066: The MS recovery for potassium exceeded the ±25% requirement in the FSAP and SAP. Since the sample result exceeded the matrix spike level by more than four times, this criterion does not apply.

Batch 20874: The ICSAB had a result above the quantitation limits for neodymium. This indicates that spectral interference was occurring. Neodymium results were not reported due to the high probability that they were the result of this interference. Results slightly above the MDL for cadmium and manganese in the ICSA indicate a possible high bias for these elements. However, the recoveries of cadmium and manganese in the ISCAB were within the ±20% requirement; this indicates no significant bias was present. Low levels of iron and calcium were detected in the preparation blank, but reanalysis was not required since these levels were less than 5% of the lowest sample result. The MS recoveries for aluminum, calcium, iron, magnesium, manganese, potassium, and sodium silicon and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the sample results for these elements exceeded the matrix spike level by more than four times, this criterion does not apply. The RPD for nickel exceeded the ±30% requirement at 51%. All sample results in this batch for nickel have been flagged with "c". The laboratory believes this exceedance may have also been caused by sample inhomogeneity. Additionally, silicon experienced LCS failures and reanalysis was not required for this secondary element. It should be noted that silicon is not listed with other elements in SW-846 3050B, section 1.1, under "Scope and Application" for the method.

3.2.8 Inductively Coupled Plasma/Mass Spectroscopy

The ICP/MS actinide and trace metal analyses were performed on the standard SW-846 3050 acid digestion of all grab samples and liner composite samples. The ICP/MS ^{126}Sn and ^{99}Tc analysis was performed on the sample digest without the addition of the hydrochloric acid. Hydrochloric acid is not used for ^{99}Tc analysis because of the potential formation of a ZnCl ion pair with mass 99. ICP/MS trace metal analysis for antimony was perform on the same digest with additional hydrochloric acid, which is required to keep antimony in solution. In addition to these acid digestions, ICP/MS ^{99}Tc analysis was performed on a vadose water digest.

Direct is the most accurate type of calibration; however, standard material is not commercially available for all the isotopes of interest. Concentrations of those isotopes without available standards are estimated based on the instrument's mass-response curve, which is generated by using the intensity/concentration relationship for the available isotope standards. Results estimated in this manner are designated "semi-quantitative."

Table 1. Inductively Coupled Plasma-Mass Spectroscopy Standards and Spikes

Standard Type	Analytes Analyzed
Initial calibration verification (nondigested)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Acid digest standard (laboratory control standard)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Predigest spike (MS)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Post-digest spike	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
No standard or spike of either type	^{126}Sn, ^{230}Th, ^{233}U, ^{234}U, ^{236}U

3.2.8.1 Technetium-99 and Tin-126

The required detection limit listed in the SAP for ^{99}Tc was met. The target detection limit for ^{99}Tc was not met. There were no required or target detection limits for ^{126}Sn listed in the SAP. The SAP lists a holding time of 6 months for isotopic analytes. All samples were analyzed within the holding time.

Because there is no available source for ^{126}Sn, ^{117}Sn is used to monitor the chemical recovery for this analysis. Though not specifically requested in the SAP, ^{117}Sn is reported for the LCS and MS in order to demonstrate method accuracy and presence of possible matrix interference.

Batch 19814: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 20169: The matrix spike recovered ^{117}Sn outside the ±25% required in the QAPP and SAP at 59%. These samples were initially analyzed in batch 19814 with a similar results. This would indicate that there is a matrix interference for tin when spiked at these levels. All sample results in the batch have been flagged with a “b”.

Batch 20677: The matrix spike recovered ^{117}Sn outside the ±25% required in the QAPP and SAP at 59%. Since the post-digestion spike passed and the previous batch (20169) was reanalyze without improvement of the MS recovery, matrix interference was inferred and reanalysis was not performed. If tin is spiked at a level similar to the one used for the ICPAES analysis, the recoveries are generally within the required ±25%. However, this not appropriate for ^{126}Sn analysis. Results for this analysis should be considered biased low, but the laboratory believes that even sample levels of 10 µg/Kg should be easily detected. All sample results in the batch have been flagged with a “b”.

3.2.8.2 Technetium-99 (Vadose Water Digest)

The required and target detection limits listed in the SAP for ^{99}Tc were met. The SAP lists a holding time of 6 months for isotopic analytes. All holding times were met. A predigestion matrix is not prepared as part of this procedure. This is partially due to the large size of the aliquot—approximately 70 g. All other standard QC requirements were meet for this batch.

3.2.8.3 Actinides

The required and target detection limits were met for all isotopes and in all samples. The SAP lists the holding time for isotopic analytes as 6 months. All samples were analyzed within the holding time.

Batch 19661: The ending LLS for ^{232}Th exceeded the ±30% requirement at 134%. This could indicate a high bias for ^{232}Th results near the LLS level. However, the lowest sample result for ^{232}Th was approximately 100 times the LLS level and the data quality was not affected. The low level MS for ^{232}Th failed at 62%. It is the laboratory’s opinion that this failure is due to inhomogeneity (RPD of 18%) and the ^{232}Th result in the sample being nearly four times the spike amount. If the duplicate result is used to calculate the MS recovery, it is within the ±25% requirement. A higher level spike was also analyzed; it passed at 100%. This was discussed with

the client, and the laboratory was instructed to report the low level MS (see details discussed in Attachment 7).

Batch 20266: Th-230 was detected in the preparation blank at the MDL. However, this was more than 5% of one sample in the batch, which had a result slightly above the MDL. This sample was flagged with a "B". The ending LLS for ^{235}U exceeded the ±30% requirement at 53%. This could indicate a low bias for ^{235}U results near the LLS level. However, the lowest sample result for ^{235}U was approximately 25 times the LLS level and the data quality was not affected.

Batch 23864: Th-230 was detected in the preparation blank just above the MDL. However, this was more than 5% of the sample, which had a result above the MDL, but below the quantitation limit. This sample was flagged with a "B".

3.2.8.4 Trace Metals

Antimony, arsenic, cadmium, selenium, silver, and thallium were analyzed by ICP/MS to obtain the required detection limits in the SAP. Lead was also reported in four samples. Except for the required detection limit for selenium, all required and target detection limits were met or the sample results were above the quantitation limit, and the sample detection limit criteria do not apply. The required detection limit for selenium was approximately an order of magnitude below the detection limit obtained by using ICP/MS. The laboratory does not anticipate reaching this detection limit for future projects. The reporting limit for selenium ranged from 0.3 µg/g to 0.6 µg/g depending on the matrix interference encountered during the analysis. SW-846 lists the holding time of metals as 6 months. All samples were analyzed within the holding time except for sample B23KP9 (S10V003308), which was reanalyzed for arsenic one day into the 7th month. The laboratory does not believe the result was affected.

Batch 20363 and 23807: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19915: Two of the LLSs for selenium exceeded the ±30% requirement at 64% and 67%. This could indicate a low bias for selenium results near the LLS level. However, since the selenium signal was well below the MDL, the data quality was not affected.

Batch 20171: Thallium was detected in the preparation blank below the quantitation limit. The blank result was approximately 30% of the sample results, and a "B" flag was applied. Since the blank result was below the quantitation limit and the all sample results were below the required detection limit, reanalysis was not required.

Batch 20590: The first CCB had a result for antimony slightly above the MDL. All affected samples have been flagged with a "B". Since the blank result was below the quantitation limit, reanalysis was not required. The duplicate RPD for antimony was outside the ±30% requirement in the SAP and FSAP at 37%. The laboratory believes this was a result of sample inhomogeneity. Additionally, the sample result was well below the required detection limit. With customer agreement (see Attachment 7), all results were flagged with "c" and reported.

Batch 23628: The closing LLSs for selenium exceeded the ±30% requirement at 152%. This could indicate a high bias for selenium results near the LLS level. However, since the selenium signal was well below the MDL, the data quality was not affected.

3.3 RADIOCHEMICAL ANALYSIS

The holding time listed in the SAP for radioactive isotopes is 6 months. The FSAP list the holding time as "none." SW-846 does not address holding times for radiochemical analytes. All radiochemical analyses met the 6-month holding time listed in the SAP. With the exception of the ^{14}C and ^{3}H analyses, tracers and spikes are added prior to the digestion. The laboratory is investigating the possibility of performing predigestion spikes for the ^{3}H and ^{14}C analyses.

3.3.1 Gamma Energy Analysis

GEA was performed directly on approximately 60 mL of soil from all grab samples and liner composite samples. The SAP requires the reporting of all isotopes with positive results above the minimum detectable activity (MDA); therefore, isotopes in addition to those required in the SAP were report when detected. The GEA analysis met all of the required detection limits in the SAP. The laboratory was unable to meet any of the target detection limits.

Batch 19658: The RPD for ^{212}Pb and ^{40}K exceeded the ±30% requirement in the SAP and FSAP. Since relative error for ^{40}K exceeded 30%, the result is considered to be below the quantification limit and this criterion does not apply. The ^{212}Pb result was above the quantification level, and a "c" has been applied to the results. However, since ^{212}Pb is not a required analyte, reanalysis was not required.

3.3.2 Strontium-89/90

Strontium-89/90 analysis was performed on a strong acid digest of all grab samples and liner composite samples. All of the sample analyses met the required and target detection limits. The FSAP and SAP requested ^{90}Sr, not $^{89/90}Sr$, be reported. The 222-S Laboratory only performs the latter analysis. Since the half-life for ^{89}Sr is approximately 51 days and ^{89}Sr has not been produced at Hanford for years, $^{89/90}Sr$ is essentially ^{90}Sr. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.3 Tritium

The ^{3}H analysis by liquid scintillation counting (LSC) was performed on a water leach of all grab samples and liner composite samples. This method only measured the ^{3}H in the samples that could be dissolved in water. This analysis achieved the required and target detection limits in the FSAP. There were no notable issues with the ^{3}H batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.4 Selenium-79

The ^{79}Se analysis by LSC was performed on a strong acid digest of all grab samples and liner composite samples. The analysis achieved the target detection limit in the FSAP. No required

detection limit was listed. No standard is currently available for ^{79}Se. A cold carrier is used to monitor recovery and is measured gravimetrically. The ^{14}C LSC curve is used to determine the ^{79}Se results since their energies are similar.

Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%. There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.5 Carbon-14

The ^{14}C analysis by LSC was performed on a water leach of all grab samples and liner composite samples. The analysis achieved the required detection limit in the FSAP but exceeded the target detection limit. This analysis will only detect water soluble forms of ^{14}C. There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.6 Nickel-63

The ^{63}Ni analysis by LSC was performed on a strong acid digest of all grab samples and liner composite samples. The analysis achieved the required and target detection limits in the FSAP. There were no notable issues with these ^{63}Ni batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%.

3.3.7 Iodine-129

Analysis for ^{129}I by low energy GEA was performed on an iodine-specific fusion digest of all grab samples and liner composite samples. The required detection limit in the SAP was met. Four samples slightly exceeded the 2 pCi/g required detection limit with detection limits between 2.5 and 2.7 pCi/g. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.8 Americium-241, Curium-243/244, and Curium-242

Analysis for ^{241}Am, $^{243/244}$Cm, and ^{242}Cm by alpha energy analysis (AEA) was performed on a strong acid digest of all grab samples and liner composite samples. For this analysis, there were no notable issues and all QC requirements in the FSAP, SAP, and the QAPP were met. The required and target detection limits in the SAP were met. The SAP and FSAP requested ^{243}Cm and ^{244}Cm be reported separately. Since it is not possible to resolve these individual isotopes when using AEA, these isotopes have been report as $^{243/244}$Cm.

3.3.9 Plutonium-238 and Plutonium-239/240

Plutonium isotopic (^{238}Pu and $^{239/240}$Pu) analysis by AEA was performed on a strong acid digest of all grab samples and liner composite samples. For this analysis, there were no notable issues with any batches and all QC requirements in the FSAP, SAP, and the QAPP were met. The required and target detection limits in the SAP were met.

3.4 ORGANIC ANALYSES

3.4.1 Volatile Organic Analysis

The VOA by GC/MS was performed on all field samples by purge and trap. Field sampling methods, sample containers, and preservation methods followed SW-846 5035. The soil samples were delivered in a freezer, in pre-weighed VOA vials with magnetic stir bars and approximately 5 g of sample. After receipt, the VOA samples were stored in a freezer. For each sample interval, an additional high level sample preserved in methanol was also received. These were not used because none of the results for the frozen samples were above the calibration range. The exact weight of the sample and the tare weight of the VOA vials were recorded by sampling personnel and delivered with the samples. Eight field blanks and eight trip blanks were also received and analyzed. The samples were preserved with either HCl or H_2SO_4 to a pH < 2. All samples met the required holding times except for samples B23KN6 (S10V000368) and B23KN9 (S10V000369), which were placed in a refrigerator instead of a freezer. This reduces the holding time to 48 hours (see Attachment 3). Due to this taking place over a weekend, the sample storage error was not detected for approximately 90 hours. The samples were then properly stored and later analyzed.

The VOA analysis met the target and required detection limits in the SAP. The SAP and FSAP requested m-xylene and p-xylene be reported separately. Since it is not possible to resolve these individual compounds when performing VOA by SW-846 8260B, these compounds have been report as m+p xylene. The SAP and FSAP request that methanol be reported with this analysis; however, this compound is too polar to be purged and cannot be reported (see Attachment 7).

All field and trip blanks contained chloroform above the estimated quantification level. Since chloroform is a common chlorination byproduct, the laboratory believes the source of chloroform was the water used by sampling personnel to make the various blanks.

The laboratory method blanks generally contained a very low level of toluene, which was also present in the samples at a similar level. The blank contamination was usually just above the MDL and always below the quantitation limit. This contamination was 4 to 5 orders of magnitude below the required detection limit and 17 to 90 times less than the target detection limit. For these reasons, reanalysis was not necessary. “B” flags have been applied when appropriate. For analyses performed after these, toluene was only occasionally found in the blank. The laboratory is not sure of the source of the toluene, but it may be related to construction or maintenance activities.

All laboratory blanks for the liquid sample batches contained acetone at a level slightly below the quantitation level, based the low calibration. Some blanks were 30 to 50 times the MDL. Fortunately, the samples contained only a trace of acetone; most results were below the MDL and all were below the quantitation level. “B” flags have been applied when appropriate. For this reason, reanalysis was not required. The laboratory believes that this relatively high level of acetone in the method blanks was due to contamination in the hydrochloric acid used in the blanks. For analyses performed after these, acetone was only occasionally found in the blank and generally at a level below the quantitation level.

LCS, MS, and matrix spike duplicate (MSD) recoveries were compared against the laboratory's statistical process control (SPC) limits, as required by SW-846. The use of SPC limits is allowed in the FSAP, SAP, and QAPP.

Batch 18960: The method blank contained toluene as discussed above.

Batch 19080: The method blank contained acetone and toluene as discussed above.

Batch 19081: The method blank contained acetone and toluene as discussed above. The MS and MSD sample vials failed to purge, and no MS/MSD pair is contained in this batch. Since additional MS/MSD pairs exist for the field QC samples for this core hole, client requirements have been meet (see Attachment 7).

Batch 19123: The MS was recovered above the statistically determined limits for acetone, hexone, and 2-butanone. All sample result for hexone and 2-butanone were below the MDL, and the data usability was not affected. One sample had a result above the quantitation limit. This result should be considered biased high. Reanalysis was not performed due to the holding time. All results for these compounds have been flagged with a "b". The method blank contained toluene as discussed above.

Batch 19447: The LCS recovery for acetone was above the upper limit of 139% at 152%. Due to the holding time limitation, reanalysis was not performed. Since the result for acetone was below the quantitation limit and flagged with a "J", the data usability was not affected and reanalysis was unnecessary. The result has been flagged with an "a". The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 26%, which indicates a high bias for these compounds. Since the acetone result was below the quantitation level and the trans-1,2-dichloroethene was non-detect, the CCV was acceptable. The method blank contained acetone and toluene as discussed above.

Batch 19485: The LCS recovery for acetone was above the upper limit of 139% at 160%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were either below the MDL or below the quantitation limit and flagged with a "J", the data usability was not affected and reanalysis was unnecessary. The result has been flagged with an "a". The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 24% and 31%, respectively, which indicates a high bias for these compounds. Since the acetone results were below the MDL or below quantitation level and the trans-1,2-dichloroethene was non-detect, the CCV was acceptable. The method blank contained acetone and toluene as discussed above. The MS for 1-butanol failed low at 69%. Due to the holding time limitation, reanalysis was not performed. All sample results were below the MDL and have been flagged with a "b".

Batch 19486: The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 24% and 31%, respectively, which indicates a high bias for these compounds. Since the acetone and 1,2-Dichloroethene results were below the MDL, the CCV was acceptable. The LCS recovery for acetone was above the upper limit of 134% at 150%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were below the MDL, the data usability was not affected and reanalysis was unnecessary. All results for acetone in the batch have been flagged with "b".

Batch 19566: It is apparent from the following discussion that this batch should have been reanalyzed; however, due to a pending instrument outage and an expiring holding time, these are the only results available. With the exception of acetone, all QC failures indicate a high bias; the impact on the data is minimal. 2 Hexanone was detected in the sample and method blanks above the MDL and below the quantitation limit. The sample results have been flagged with a "B". Since the results were below the quantitation limit, reanalysis was not required. The MS failed high for acetone, 2-butanone, 2-hexanone, and hexone. The acetone and 2-hexanone results were above the MDL. All results have been flagged with a "b". Since the 2-hexanone result was below the quantitation limit and flagged with "J", this result was not affected. The acetone result was above the quantitation limit and should be considered biased high. A "J" flag has been applied to this result. The LCS for acetone failed high, again indicating a high bias, and the result has been flagged with an "a". Two CCVs were analyzed with this batch; the closing CCV was normal with only 2 compounds slightly above the ±20% requirement. However, the first CCV had six primary analytes above this requirement. As previously discussed, only acetone was affected by this high bias. The method blank contained toluene as discussed above.

Batch 19680: The LCS recovery for acetone was above the upper limit of 136% at 172%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were below the quantitation limit or below the MDL and flagged with a "J" or "U", the data usability was not affected and reanalysis was unnecessary. The results have been flagged with an "a". The % difference for 2 hexanone was high at 21%, which indicates a high bias for these compounds. Since 2-hexanone was below the quantitation limit and is not a primary analyte, the CCV was acceptable. The method blank contained acetone as discussed above.

Batch 20082: The method blank contained m,p-xylene at a level slightly above the MDL. Since the sample result for this compound was below the MDL, the blank was acceptable. The method blank contained toluene as discussed above. The RPD between the MS and MSD exceeded the ±30% requirement at 67%. Since the sample result was 72.5 ug/kg, the blank result was below the MDL, and all other QC for acetone was acceptable, inhomogeneity is suspected. Reanalysis was not performed due to holding time expiration.

Batch 20256: The method blank contained acetone and toluene as discussed above.

3.4.2 Semivolatile Organic Analysis

The semivolatile organic analysis (SVOA) by GC/MS was performed on methylene chloride extractions of all grab samples and liner composite samples. All holding times were met.

The SVOA analysis met the required and target detection limits with two exceptions:

- The adjusted MDLs for cyclohexanone were above the 0.5 mg/kg target detection limit for most samples. This compound obtained detection limits between 0.5 mg/kg an 0.6 mg/kg.
- The adjusted MDLs for di-n-butyl-phthalate were above the target detection limit of 0.33 mg/kg. The analysis achieved a detection limit of between 0.5 mg/kg and 0.6 mg/kg for this compound.

The LCS, MS, and MSD recoveries were compared against the laboratory's SPC limits, as required by SW-846. The use of SPC limits is permitted in the FSAP, SAP, and QAPP.

The SAP and FSAP requested m-cresol and p- cresol be reported separately. Since it is not possible to resolve these individual compounds when performing SVOA by SW-846 8270C, these compounds have been report as m+p cresol.

Isobutanol is listed as a required volatile organic compound in the FSAP. Since it does not purge well, it was analyzed as using SVOA.

Batch 19182: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batches 19296 and 19488: Butylbenzylphthalate was detected in the method blank slightly above the MDL and below the quantitation limit. This compound was detected in the samples at a similar level and has been flagged with a "B". Since all results were below the quantitation level, reanalysis was not required and the blank is acceptable.

Batch 19779: The MS recovery for 4-Chloro-3-methylphenol was above the 103% upper limit at 108%. Since this compound was not detected in the sample, reanalysis was not required.

3.4.3 Tentatively Identified Compounds

Unassigned peaks or TICs were treated as follows. Standards were obtained and analyzed for each secondary analyte identified in the SAP. This data was accumulated in the Hanford library. Following analysis, the largest TICs, with instrument responses greater than 10% of the response of the nearest internal standard, were evaluated and compared to the Hanford library. The estimated concentration of these TICs was calculated using measured response factors from the Hanford library compound list.

After comparison to the Hanford library, remaining unknowns were compared to the National Institute of Standards and Technology's *HP Mass Spectral (compound) Libraries* (NIST 02). The estimated concentration of compounds identified in the NIST library was calculated based on an arbitrary response factor of 1.0. If the compounds were not identified as a result of this comparison, they were reported as "unknown." Summaries of the SVOA and VOA TICs from the field samples and method blanks are provided in Attachment 4. TICs that were found in the field samples and were present in the associated batch method blank have been flagged with "B".

4.0 PROCEDURES

Table 2 lists the analytical procedures used for analysis of the Area C samples.

Table 2. Analytical Procedures

Analysis	Preparation Method	Analysis Procedure
Inorganic Analyses		
Cyanide	LA-695-103, Rev. I-0, J-0 (SW-846 9010C)	LA-695-103, Rev. J-0 (SW-846 9014)

Analysis	Preparation Method	Analysis Procedure
Sulfide	LA-361-101, Rev. D-0 (SW-846 9030B)	LA-361-101, Rev. D-0 (SW-846 9215)
pH (solid)	LA-212-105, Rev. G-0 (SW-846 9045D)	LA-212-105, Rev. G-0 (SW-846 9045D)
pH (liquid)	Direct	LA-212-106, Rev. H-0 (SW-846 9040D)
Mercury – Cold Vapor Atomic Absorption	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)
Ammonia – IC	LA-544-112, Rev. E-0	LA-533-101, Rev. Q-0
Anions & Organic Acids – IC	LA-504-101, Rev. L-0	LA-533-115, Rev. J-0
Metals – ICP /AES	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-505-161, Rev. J-0-A (SW-846 6010C)
^{99}Tc, ^{126}Sn – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. F-1
^{99}Tc – ICP/MS	08-ATL-078 Vadose Water Digest	LA-506-103, Rev. A-0
Metals – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. E-0, F-1 LA-506-103, Rev. A-0 (SW-846 6020A)
Actinides – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-1-2, Rev. F-1 LA-506-103, Rev. A-0
Radiochemical Analyses		
GEA	Direct	LA-548-121, Rev. I-0
^{90}Sr – Separation/Beta counting (Solid)	LA-544-101, Rev. F-0	LA-220-103, Rev. J-0
^{90}Sr – Separation/Beta counting (Liquid)	LA-220-104, Rev. I-0	LA-220-104, Rev. I-0
^{3}H – LSC	LA-504-101, Rev. L-0	LA-218-111, Rev. G-0
^{14}C – LSC	LA-504-101, Rev. L-0	LA-348-104, Rev. H-0
^{79}Se – Separation/LSC	LA-544-101, Rev. F-0	LA-365-132, Rev. I-0
^{63}Ni – Separation/LSC	LA-544-101, Rev. F-0	LA-285-102, Rev. E-0
^{129}I – Separation/GEA	LA-378-105, Rev. C-0	LA-378-105, Rev. C-0
^{241}Am, $^{243/244, 242}$Cm – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
$^{239/240, 238}$Pu – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
Organic Analyses		
VOC – GC/MS	Direct	LA-523-118, Rev. G-O-A (SW-846 8260B)
SVOC – GC/MS	LA-523-138, Rev. F-0 (SW-846 3540C)	LA-523-135, Rev. C-0, D-0 (SW-846 8270C)

5.0 REFERENCES

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RPP-PLAN-40564, 2009, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C,* Rev. 2, Washington River Protection Solutions, Inc.

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Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-032	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 1	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	surface	n/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MR0	WATER	4-15-10	1010
S10V000310			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	[illegible]	4/15/10 @1410

SPECIAL INSTRUCTIONS
cooler 1 L

222S20100160

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	V10-002-022	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 1	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	Surface	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238F5	WATER	4-15-10	0925
S10V000320			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell		[signature]	4/15/10 @1410

SPECIAL INSTRUCTIONS
11c cooler
222S20100160

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	V10-003-055	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KN6	SOIL	4-15-10	1010	✓	✓	
S10V000368	Lo					
S10V000369	Hi					
DPR 379						
4-20-10						

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	B Tullock	4/15/10 @ 1410

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.

Freezer - 11c
Cooler 11c

22225201 0213

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	V10-003-054	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23K87	SOIL	4-15-10	1010	✓
S10V000390				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BCampbell	4-15-10 1410	D Tuttle	4/15/10 @ 1410
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

Cooler 1°C
Freezer -1°C

222S20100213

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	V10-003-053	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23R25	SOIL	4-15-10	1010	✓
S10V000401				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	TM Gollock	4/15/10 @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

(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;

cooler 11c

22252010021 3

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	V10-003-058	PAGE 1 OF 1

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.**		
C7670 Surface Dup	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-000001	TFV2-09-00000	Surface Dup	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KN9	SOIL	4-15-10	1010	✓	✓
S10V000369	Lo				
S10V000380	Hi				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	D McCollock	4/15/10 @ 1410

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.

Freezer -11c
Cooler 11c

222S20100213

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	V10-003-057	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
C7670 Surface Dup	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** B-4-15-10 ~~B~~C N/9	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	Surface Dup		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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN8	SOIL	4-15-10	1010	✓
S10V000391				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	T M Estbek	4/15/10 @ 1410

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.

Cooler 11 C
Freezer 11 C

222S20100213

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	V10-003-056	PAGE 1 OF 1

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.**		
C7670 Surface Dup	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	Surface Dup	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	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN7	SOIL	4-15-10	1010	✓
S10V000402				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	D Tuckett	4/15/10 @1410

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;

cooler 11 c

222S20100213

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	V10-002-033	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 2	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	5-7	n/a	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR1	WATER	4-20-10	1214	✓
510V000311				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	T McCollock	4/20/10 @1350
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

2225 201 00160

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-023	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Trip Blank 2	WMA C Sampling for CMS - QC Sampling	V10-002

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFV2-09-003	TFV2-09-000001	5-7	n/a	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238F6	WATER	4-20-10	1214	✓
510V000321				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	D Tuttle	4/20/10 @ 1350

SPECIAL INSTRUCTIONS

22262010016 0

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-060	PAGE 1 OF 1

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.**		
C7670 I001	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	5-7	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN5	SOIL	4-20-10	1245	✓
510V000392				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	M Collock	4/20/10 @ 1350

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.

22252010021 3

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-061	PAGE 1 OF 1

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.**		
C7670 I001	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	5-7	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KN4	SOIL	4-20-10	1245	✓	✓	
S10V000370	Lo					
S10V000381	Hi					

CHAIN OF POSSESSION / **SIGN/PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	B Tuteboch	4/20/10 @ 1350

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.

222S20100213

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-059	PAGE 1 OF 1

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.**		
C7670 I001	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-00000	5-7	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)	2 BC 4-20-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238J9	SOIL	4-20-10	1245	✓
S10V000412				
S10V000413				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BCampbell	4-20-10 1350	Treftock	4/20/10 @ 1350
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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;

2225 20100213

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-034	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 3	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
~~TFVZ~~ - 09-003	TFVZ-09-000001	10 - 12	N/A	GOVERNMENT VEHICLE	
SHIPPED TO BRC 4/22/10	**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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR2	WATER	4/22/10	0830	✓
S10V000312				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RKSteele RKSteele 4-22-10	1200

SPECIAL INSTRUCTIONS

-0 C +B
RKS

222S20100160

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	V10-002-024	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 3	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	10-12	n/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP2	WATER	4-22-10	0820	✓
S10V000322				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RKSteele RKSteele	4-22-10 1200

SPECIAL INSTRUCTIONS
-0°C TB RK

222S20100160

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	V10-003-064	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	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	10-12	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KP2	SOIL	4/22/10	0915	✓	✓	
S10V000371	Low Level VOA					
S10V000382	High Level VOA					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RHBak RHBak	4-22-10 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

** 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, 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.

-12°C TB
RH

222S 20100213

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	V10-003-063	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-09-000001	10-12	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	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~4C												
TYPE OF CONTAINER	Gs												
NO. OF CONTAINER(S)	1												
VOLUME	40mL												
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);												

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME											
B23KP1	SOIL	4/22/10	0915	✓										
S10V000393	MeOH Blank													

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RHtal RHtal	4-22-10 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

** 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.

-0 C TB
RHtal

222S20100213

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	V10-003-062	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	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	10-12	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)	~~2~~ 4-22-10 1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP0	SOIL	4/22/10	0915	✓
S10V000415				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	R Rist RRistelle	4-22-10 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

** 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;

-0°C TO RK

222S 20100213

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	V10-003-065	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I003	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	12-14	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/Jars 500 ml
NO. OF CONTAINER(S)	3 BC 4-22-10 2
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP3	SOIL	4/22/10	945	✓
S10V000416	Liner A			
S10V000417	Shoe			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RAHal RASteele	4-22-10 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

** 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;

α TB
RAHal

222S 20100213

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		V10-003-070	PAGE 1 OF 1
COLLECTOR: HARRIS	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P
SAMPLING LOCATION: C7670 I004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-09-00000	ACTUAL SAMPLE DEPTH: 14-16	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A	

DATA TURNAROUND: 75 Days / 75 Days

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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KP8	SOIL	4/22/10	1055	✓	✓	
S10V000373	Low Level VOA					
S10V000384	High Level VOA					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	4-22-10 1200	[illegible]	4-22-10 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

** 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.

0°C TB RK
-12°C TB RK

222S20100213

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			V10-003-069	PAGE 1 OF 1
COLLECTOR Harvis	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7670 I004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFV2-09-003	FIELD LOGBOOK NO. TFV2-09-000001	ACTUAL SAMPLE DEPTH 14-16	COA N/A	METHOD OF SHIPMENT Govt. 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	Cool~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP7	SOIL	4-22-10	1055	✓
S10V000395	MeOH Blank			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	4-22-10 1200	RHSteele	4-22-10 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

** 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.

0°CTB
RA

222S20100213

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	V10-003-068	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I004	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	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~~ 2 BC 4-22-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP6	SOIL	4-22-10	1055	J
S10V000821	Liner A			
S10V000822	Liner B			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	4-22-10 1200	RHSteele	4-22-10 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

** 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;

DOCTB
RKB

222S 20100213

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	V10-002-035	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 4	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	39' - 41'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR3	WATER	4-23-10	0855	✓
SDV000313				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RHSteele RHSteele	4-23-10 1150

SPECIAL INSTRUCTIONS

0°C TD RA

222S 20100160

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			V10-002-025	PAGE 1 OF 1
COLLECTOR: Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C7670 Trip Blank 4	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V10-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 39' - 41'	COA: N/A	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	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP3	WATER	4-23-10	0855	✓
S10V000323				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RJ Steele RJ Steele	4-23-10 1150

SPECIAL INSTRUCTIONS

-0°C TS RS

222S 20100160

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			V10-003-073	PAGE 1 OF 1
COLLECTOR: Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-~~000002~~ 000001	ACTUAL SAMPLE DEPTH: 39-41	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: RES 4/23/10 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	Cool <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3 ✓
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KR1	SOIL	4/23/10	0943	✓	✓
S10V000374	Low level				
S10V000385	High level				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RHTeale RHTeale	4-23-10 1150
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

-0°C TB RB / -7°C RB RB

222S20100213

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	V10-003-072	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.**		
C7670 I005	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	39-41	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR0	SOIL BC 4-23-10 Liquid	4-23-10	0943	✓
S10V000396	MeOH			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BC_pbell	4-23-10 1150	RLSteele RLSteele	4-23-10 1150
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

OCTB
RK

222S 20100213

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	V10-003-071	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.**		
C7670 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	39-41	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	
B23KP9	SOIL	4-23-10	0943	✓
S10V000 824	Liner A			
825	Liner B			
826	Liner C			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RKSteele RKSteele	4-23-10 1150

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;

OC + B
-0 RK

222S 20100213

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	V10-002-036	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 5	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	139-141	n/a	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR4	WATER	5-4-10	0925	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-pbell	5-4-10 1215	RLSteele RLSteele	5-4-10 1215

SPECIAL INSTRUCTIONS

0°C TB

GRP# 222S20100160

Sample# S10V000314

omni pts ✓

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	V10-002-026	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 5	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	139-141	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MP4	WATER	~~4-5~~ 5-4-10	0925
		B: 5-4-10	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell / B Campbell	5-4-10 1215	[illegible]	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

0 C TB

222S20100160
S10V000324

omni
DLV

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	V10-003-076	PAGE 1 OF 1

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.**		
C7670 I006	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	139-141	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KR4	SOIL	5-4-10	1002	✓	✓	
S10V000375	Lo					
386	Hi					

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RL Berlin PC-Shell	5-4-10 125	RL Steele	5-4-10 12:15

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.

-0°C TB / -7°C TB

222S20100213
S10V000375
S10V000386

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	V10-003-075	PAGE 1 OF 1

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.**		
C7670 I006	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	139-141	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR3	SOIL	5-4-10	1002	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-4-10 1215	RHHart RHHart	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

-0 °C TB

222S20100213
S10V000397

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	V10-003-074	PAGE 1 OF 1

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.**		
C7670 I006	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	139'- 141'	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	
B23KR2	SOIL	5-4-10	1002	✓
S10V000 827	A			
828	B			
829	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-4-10 1215	RAStecle RAStecle	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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;

0°C TB 222S20100213
S10V000 827 → 829 omit

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			V10-002-037	PAGE 1 OF 1
COLLECTOR: Campbell / Harris	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C7670 Field Blank 6	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V10-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 163-165	COA: N/A	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	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR5	WATER	5-5-10	08:56	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-5-10 1130	RA Steele RA Steele	5-5-10 1130

SPECIAL INSTRUCTIONS

1°C TB
RA Steele

~~22252010213~~
~~510V000830 831, 832~~
RA Steele 5.5.10
22252010016 0
510V000315

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	V10-002-027	PAGE 1 OF 1

COLLECTOR: Harris / Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC
PRICE CODE: 7P	DATA TURNAROUND: 75 Days / 75 Days	AIR QUALITY: ☐	
SAMPLING LOCATION: C7670 Trip Blank 6	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling	SAF NO.: V10-002	
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-09-000001	ACTUAL SAMPLE DEPTH: 163' - 165'	COA: n/A
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	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP5	WATER	5-5-10	08:56	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-5-10 1130	RHSteele RHSteele	5-5-10 1130

SPECIAL INSTRUCTIONS
-10°C TB
RHSteele
22252010016O
S10V000325

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-079	PAGE 1 OF 1
COLLECTOR: Campbell / Harris	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 163 – 165	COA: n/A	METHOD OF SHIPMENT: Govt. 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	Cool <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B23KR7	SOIL	5-5-10	1030	✓	✓								

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: BCampbell BCampbell	DATE/TIME: 5.5.10 1130	RECEIVED BY/STORED IN: RtSteele RtSteele	DATE/TIME: 5.5.10 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

** 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°C TB
pH
-8°C TB
pH

222S20100213
S10V000376-LO
S10V000387-Hi

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-078	PAGE 1 OF 1
COLLECTOR: Campbell / Harris	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 163-165	COA: N/A	METHOD OF SHIPMENT: Govt. 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	Cool~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR6	SOIL	5-5-10	1030	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: B Campbell BC-pbell	DATE/TIME: 5-5-10 1130	RECEIVED BY/STORED IN: RKTeele RKTeele	DATE/TIME: 5-5-10 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

** 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°C TB
2225 20100214 213 RKTeele 5-5-10
510V000398

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-077	PAGE 1 OF 1

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.**		
C7670 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	163-165	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	
B23KR5	SOIL	5-5-10	1030	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BCampbell	5.5.10 1130	RtSteele RtSteele	5.5.10 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;

-1°C TB
RK

222S20100213
510V000 830, 831, 832
A B C

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-038	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7670 Field Blank 7	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	220' - 222'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR6	WATER	5-7-10	11:30	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	R.L. Steele R.L. Steele	5-7-10 1300

SPECIAL INSTRUCTIONS
1°C TB
RK
GRP# 2225201.0160
SAM# S10V000316

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	V10-002-028	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 7	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	220'-222'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MP6	WATER	5-7-10	11:30
S10V000326			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	RKSteele RKSteele	5-7-10 1300

SPECIAL INSTRUCTIONS
1 °C TB
RK

20100160

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	V10-003-081	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 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-09-000001	5/13/10 5' ~~200'~~ 220' - 222'	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR9	SOIL	5-7-10	1215	✓
S10V000399	Methanol Blk			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	R.T. Steele R.T. Steele	5.7.10 1300

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 oc TB RK 20100213

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	V10-003-080	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 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-09-000001	220' - 222'	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)	~~1~~ 2 SAS 5-7-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR8	SOIL	5-7-10	1215	✓
S10V000834	B			
835	C			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris, Dan Harris	5-7-10 1300	Richard Steele	5-7-10 1300

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;

1 OC TB RK 20100213

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	V10-002-039	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
B. Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Field Blank 8	WMA C Sampling for CMS - QC Sampling	V10-002 N/A

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVZ-09-003	TFVZ-09-000001	222-224	N/A	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR7	WATER	5-11-10	1255	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BC-Campbell	5-11-10 1420	RAstedo RAstedo	5/11/10 1420

SPECIAL INSTRUCTIONS

QC

GRP# 20100160
SAM# S10V000317

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	V10-002-029	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 8	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	222-224	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP7	WATER	5-11-10	1255	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	5-11-10 1420	[illegible]	5-11-10 1420

SPECIAL INSTRUCTIONS
λ °C TB
pK
GRP # 20100160
SAM # S10V000327

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	V10-003-085	PAGE 1 OF 1

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.**		
C7670 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-09-00000	222-224	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

No sample RAHeadt 5-11-10

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B23KT3	SOIL	5-11-10	1335	✓									

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	5-11-10 1420	RAHeadt RASteele	5-11-10 1420
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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°C TD
-8°C RK

GRP# ~~20100213~~ RK
20100213
Sam# S10V000378

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	V10-003-083	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
C7670 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	222-224	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)	1 SAS 2 5-11-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KT1	SOIL	5-11-10	1335	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Cpbell C-pbell	5-11-10 1420	RL Steele RLSteele	5-11-10 1420

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;

λ°C TB

GRP# 20100213
SAM# S10V000836
" 837

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Appendix 5

Data Validation Supporting Documentation

Appendix A - Chemical Data Validation Checklist

VALIDATION LEVEL:	A	B	(C)	D	E
PROJECT: WMA C (C7670)			DATA PACKAGE: VSR11-035		
VALIDATOR: Carl Schloesslin		LAB: 222-S Lab		DATE: 5-12-2011	
			SDG: 20100213		
ANALYSES PERFORMED					
SW-846 8260 X		SW-846 8260 (TCLP)	SW-846 8270		SW-846 8270 (TCLP)

SAMPLES/MATRIX Water & soil samples

Water samples: B238F5, B238F6, B23MP2, B23MP3, B23MP4, B23MP5, B23MP6, B23MP7, B23MR0, B23MR1, B23MR2, B23MR3, B23MR4, B23MR5, B23MR6, B23MR7

Soil samples: B23KN6, B23KN9, B23KN4, B23KP2, B23KP8, B23KR1, B23KR4, B23KR7, B23KT3

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:

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 19080 MB Hits: acetone 4.52 ug/L, toluene 0.112 ug/L
Batch 19081 MB Hits: acetone 4.86 ug/L, toluene 0.0849 ug/L
Batch 19447 MB Hits: acetone 21.6 ug/L, toluene 0.0699 ug/L
Batch 19485 MB Hits: acetone 25.7 ug/L, benzene 0.0422 ug/L, 2-butanone 1.51 ug/L, toluene 0.0553 ug/L
Batch 19680 MB Hits: acetone 30.51 ug/L, 2-butanone 1.66 ug/L
Batch 20256 MB Hits: acetone 11.2 ug/L, toluene 0.0943 ug/L
Batch 18960 MB Hit: toluene 0.287 ug/kg
Batch 19123 MB Hit: toluene 0.115 ug/kg
Batch 19566 MB Hit: 2-hexanone 3.60 ug/kg
Batch 20082 MB Hits: toluene 0.183 ug/kg, m,p-xylene 0.172 ug/kg
See additional comments for TB and FB hits.

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:

All Batches: trans-1,3-dichloropropene and carbon disulfide not represented in LCSs and MS/MSDs
Batch 19680: 2-hexanone not represented in LCS and MS/MSD
Batch 19081: no MS/MSD data due to failed purge
Batch 19447: acetone LCS %R = 152%
Batch 19485: acetone LCS %R = 159%, 1-butanol MS %R = 69%
Batch 19680: acetone LCS %R = 172%, 4-methyl-2-pentanone MSD %R = 136%
Batch 18960: acetone MSD %R = 131%, 4-methyl-2-pentanone MS/MSD %R = 140%/146%
Batch 19123: 4-methyl-2-pentanone LCS/MS/MSD %R = 132%/156%/147%, 1-butanol MS %R = 140%, acetone MS/MSD %R = 175%/185%, 2-butanone MS %R = 136%
Batch 19486: 4-methyl-2-pentanone MS/MSD %R = 139%/131%, acetone MS/MSD %R = 150%/140%
Batch 19566: 4-methyl-2-pentanone LCS/MS/MSD %R = 138%/213%/215%, acetone LCS/MS/MSD %R = 145%/175%/187%, 2-hexanone LCS/MS/MSD %R = 143%/210%/220%, 2-butanone MS/MSD %R = 156%/160%
Batch 20082: 4-methyl-2-pentanone MS/MSD %R = 138%/144%, acetone MSD %R = 67%

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:

Batch 20082: acetone RPD = 36%

6. SYSTEM PERFORMANCE (Levels D and E)

Internal standards analyzed? ..... Yes No N/A

Internal 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:

Samples B23KN6 and B23KN9 were placed in the refrigerator instead of the freezer for approx. 90 hours after receipt by the laboratory. The samples were placed in the freezer after this time period.

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: None

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:

Comments (attach additional sheets as necessary):

TB B238F5 Hits: chloroform 0.707 ug/L, toluene 0.200 ug/L
TB B238F6 Hits: chloroform 0.580 ug/L, toluene 0.145 ug/L
TB B23MP2 Hits: chloroform 0.562 ug/L, toluene 0.0645 ug/L, chloromethane 0.221 ug/L
TB B23MP3 Hits: benzene 0.0498 ug/L, chloroform 0.593 ug/L, chloromethane 0.278 ug/L
TB B23MP4 Hits: acetone 2.52 ug/L, benzene 0.0444 ug/L, chloroform 0.513 ug/L, toluene 0.189 ug/L
TB B23MP5 Hits: benzene 0.0504 ug/L, chloroform 0.604 ug/L, toluene 0.122 ug/L
TB B23MP6 Hits: acetone 2.10 ug/L, benzene 0.0326 ug/L, chloroform 1.11 ug/L, toluene 0.228 ug/L
TB B23MP7 Hits: chloroform 0.959 ug/L, toluene 0.234 ug/L
FB B23MR0 Hits: benzene 0.0458 ug/L, chloroform 0.673 ug/L, toluene 0.0914 ug/L
FB B23MR1 Hits: chloroform 0.596 ug/L, toluene 0.183 ug/L, chloromethane 0.858 ug/L
FB B23MR2 Hits: chloroform 0.535 ug/L, toluene 0.158 ug/L
FB B23MR3 Hits: benzene 0.0458 ug/L, chloroform 0.536 ug/L, toluene 0.114 ug/L
FB B23MR4 Hits: acetone 3.65 ug/L, benzene 0.0524 ug/L, chloroform 0.500 ug/L, toluene 0.163 ug/L
FB B23MR5 Hits: acetone 2.89 ug/L, chloroform 0.533 ug/L, toluene 0.127 ug/L
FB B23MR6 Hits: benzene 0.0437 ug/L, chloroform 1.11 ug/L, toluene 0.262 ug/L
FB B23MR7 Hits: acetone 3.45 ug/L, benzene 0.0585 ug/L, chloroform 0.938 ug/L, toluene 0.103 ug/L, 2-hexanone 0.776 ug/L

Appendix 6

Additional Documentation Requested By Client

Holding Time Report: GC/MS VOA

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
S10V000320	LIQUID	SW846-8260C	SW846-5030C	04/15/10 09:25	04/15/10 14:10	04/23/10 17:28	N
S10V000310	LIQUID	SW846-8260C	SW846-5030C	04/15/10 10:10	04/15/10 14:10	04/23/10 15:07	N
S10V000311	LIQUID	SW846-8260C	SW846-5030C	04/20/10 12:14	04/20/10 13:50	04/26/10 16:55	N
S10V000321	LIQUID	SW846-8260C	SW846-5030C	04/20/10 12:14	04/20/10 13:50	04/23/10 17:56	N
S10V000322	LIQUID	SW846-8260C	SW846-5030C	04/22/10 08:20	04/22/10 12:00	04/26/10 18:48	N
S10V000312	LIQUID	SW846-8260C	SW846-5030C	04/22/10 08:30	04/22/10 11:46	04/23/10 17:00	N
S10V000313	LIQUID	SW846-8260C	SW846-5030C	04/23/10 08:55	04/23/10 11:50	04/28/10 17:38	N
S10V000323	LIQUID	SW846-8260C	SW846-5030C	04/23/10 08:55	04/23/10 11:50	04/26/10 19:16	N
S10V000314	LIQUID	SW846-8260C	SW846-5030C	05/04/10 09:25	05/04/10 12:15	05/17/10 14:57	N
S10V000324	LIQUID	SW846-8260C	SW846-5030C	05/04/10 09:25	05/04/10 12:15	05/18/10 16:38	N
S10V000315	LIQUID	SW846-8260C	SW846-5030C	05/05/10 08:56	05/05/10 11:30	05/18/10 14:38	N
S10V000325	LIQUID	SW846-8260C	SW846-5030C	05/05/10 08:56	05/05/10 11:30	05/18/10 17:08	N
S10V000316	LIQUID	SW846-8260C	SW846-5030C	05/07/10 11:30	05/07/10 13:00	05/18/10 16:08	N
S10V000326	LIQUID	SW846-8260C	SW846-5030C	05/07/10 11:30	05/07/10 13:00	05/18/10 17:38	N
S10V000317	LIQUID	SW846-8260C	SW846-5030C	05/11/10 12:55	05/11/10 14:20	05/24/10 19:46	N
S10V000327	LIQUID	SW846-8260C	SW846-5030C	05/11/10 12:55	05/11/10 14:20	05/24/10 20:18	N
S10V000368	SOLID	SW846-8260C	SW846-5035A	04/15/10 10:10	04/15/10 14:10	04/22/10 21:28	Y*
S10V000369	SOLID	SW846-8260C	SW846-5035A	04/15/10 10:10	04/15/10 14:10	04/22/10 22:53	Y*
S10V000370	SOLID	SW846-8260C	SW846-5035A	04/20/10 12:45	04/20/10 14:41	04/22/10 23:21	N
S10V000371	SOLID	SW846-8260C	SW846-5035A	04/22/10 09:15	04/22/10 12:00	04/28/10 15:16	N
S10V000373	SOLID	SW846-8260C	SW846-5035A	04/22/10 10:55	04/22/10 12:00	04/28/10 16:41	N
S10V000374	SOLID	SW846-8260C	SW846-5035A	04/23/10 09:43	04/23/10 11:50	04/29/10 15:16	N
S10V000375	SOLID	SW846-8260C	SW846-5035A	05/04/10 10:02	05/04/10 12:15	05/18/10 19:39	N
S10V000376	SOLID	SW846-8260C	SW846-5035A	05/05/10 10:30	05/05/10 11:30	05/18/10 18:09	N
S10V000378	SOLID	SW846-8260C	SW846-5035A	05/11/10 13:55	05/11/10 14:20	05/24/10 15:59	N

* Due to improper storage the holding time for this sample was reduced to 48Hr

LABCORE Completed Batch Report for Batch# 00019080

Analyst: Getz, Andrew **Book#:**

Instrument: GCMSD3 (OHURA) for VOA

Method: VOA 222S #2, LA-523-118 Rev/Mod G-0-A

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: C Farm WMC 2010-1, VOA, Liquid, Group 20100160, Needs SAM S10V000312

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1004270036		0 0			1,1,1-Trichloroethane	LIQUID		<4.3299E-02			0.043299	ug/L			U
1	BLNK	S1004270036		0 0			1,1,2-Trichloroethane	LIQUID		<2.3000E-02			0.023	ug/L			U
1	BLNK	S1004270036		0 0			1,1,2,2-Tetrachloroethane	LIQUID		<2.0299E-02			0.020299	ug/L			U
1	BLNK	S1004270036		0 0			1,1-Dichloroethene	LIQUID		<1.7180E-01			0.1718	ug/L			U
1	BLNK	S1004270036		0 0			1,2-Dichloroethane	LIQUID		<2.4300E-02			0.0243	ug/L			U
1	BLNK	S1004270036		0 0			1-Butanol	LIQUID		<1.1489E+00			1.1489	ug/L			U
1	BLNK	S1004270036		0 0			4-Methyl-2-pentanone	LIQUID		<4.5290E-01			0.4529	ug/L			U
1	BLNK	S1004270036		0 0			Acetone	LIQUID		4.5230E+00			0.5732	ug/L			J
1	BLNK	S1004270036		0 0			Benzene	LIQUID		<1.6300E-02			0.0163	ug/L			U
1	BLNK	S1004270036		0 0			Carbon Disulfide	LIQUID		<2.1099E-02			0.021099	ug/L			U
1	BLNK	S1004270036		0 0			Carbon Tetrachloride	LIQUID		<4.7900E-02			0.0479	ug/L			U
1	BLNK	S1004270036		0 0			Chloroform	LIQUID		<4.1400E-02			0.0414	ug/L			U
1	BLNK	S1004270036		0 0			Chlorobenzene	LIQUID		<3.1999E-02			0.031999	ug/L			U
1	BLNK	S1004270036		0 0			Ethylbenzene	LIQUID		<3.3399E-02			0.033399	ug/L			U
1	BLNK	S1004270036		0 0			Xylenes (total)	LIQUID		<9.3999E-02			0.093999	ug/L			U
1	BLNK	S1004270036		0 0			2-Butanone	LIQUID		<4.5820E-01			0.4582	ug/L			U
1	BLNK	S1004270036		0 0			Methylene Chloride	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1004270036		0 0			Tetrachloroethene	LIQUID		<5.8300E-02			0.0583	ug/L			U
1	BLNK	S1004270036		0 0			Toluene	LIQUID		1.1160E-01			0.0522	ug/L			J
1	BLNK	S1004270036		0 0			trans-1,3-Dichloropropene	LIQUID		<5.9100E-02			0.0591	ug/L			U
1	BLNK	S1004270036		0 0			Trichloroethene	LIQUID		<3.7799E-02			0.037799	ug/L			U
1	BLNK	S1004270036		0 0			Vinyl Chloride	LIQUID		<4.8600E-02			0.0486	ug/L			U
1	BLNK	S1004270036		0 0			cis-Dichloroethylene	LIQUID		<5.8200E-02			0.0582	ug/L			U
1	BLNK	S1004270036		0 0			trans-Dichloroethylene	LIQUID		<7.5199E-02			0.075199	ug/L			U
1	BLNK	S1004270036		0 0			112Trichloro-122Trifluoroethan	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1004270036		0 0			2-Nitropropane	LIQUID		<2.6510E-01			0.2651	ug/L			U
1	BLNK	S1004270036		0 0			Ethyl acetate	LIQUID		<1.8340E-01			0.1834	ug/L			U
1	BLNK	S1004270036		0 0			Diethyl ether	LIQUID		<4.2300E-02			0.0423	ug/L			U
1	BLNK	S1004270036		0 0			Trichlorofluoromethane	LIQUID		<4.5800E-02			0.0458	ug/L			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019080

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1004270036		0 0			o-Xylene	LIQUID		<3.2499E-02			0.032499	ug/L			U
1	BLNK	S1004270036		0 0			m,p-Xylene	LIQUID		<7.0300E-02			0.0703	ug/L			U
1	BLNK	S1004270036		0 0			Chlorodifluoromethane	LIQUID		1.8347221				ug/L			JNT
1	BLNK	S1004270036		0 0			Unknown-1	LIQUID		1.0290745				ug/L			JT
Sample Sequence 2																	
2	LCS	S1004270037		0 0			1,1-Dichloroethene	LIQUID	10	1.0802E+01			0.1718	ug/L	108.02	% Recovery	
2	LCS	S1004270037		0 0			1-Butanol	LIQUID	100	8.9354E+01			1.1489	ug/L	89.354	% Recovery	
2	LCS	S1004270037		0 0			4-Methyl-2-pentanone	LIQUID	50	5.5888E+01			0.4529	ug/L	111.78	% Recovery	
2	LCS	S1004270037		0 0			Acetone	LIQUID	50	4.2576E+01			0.5732	ug/L	85.152	% Recovery	
2	LCS	S1004270037		0 0			Benzene	LIQUID	10	9.9000E+00			0.0163	ug/L	99	% Recovery	
2	LCS	S1004270037		0 0			Chlorobenzene	LIQUID	10	1.0093E+01			0.031999	ug/L	100.93	% Recovery	
2	LCS	S1004270037		0 0			2-Butanone	LIQUID	50	4.8631E+01			0.4582	ug/L	97.262	% Recovery	
2	LCS	S1004270037		0 0			Toluene	LIQUID	10	1.0242E+01			0.0522	ug/L	102.42	% Recovery	
2	LCS	S1004270037		0 0			Trichloroethene	LIQUID	10	9.5620E+00			0.037799	ug/L	95.62	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000310		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
3	SAMPLE	S10V000310		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
3	SAMPLE	S10V000310		0 0			1,1,2,2-Tetrachloroetha ne	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
3	SAMPLE	S10V000310		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
3	SAMPLE	S10V000310		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
3	SAMPLE	S10V000310		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
3	SAMPLE	S10V000310		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
3	SAMPLE	S10V000310		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			U
3	SAMPLE	S10V000310		0 0			Benzene	LIQUID	N/A	4.5810E-02			0.018111	ug/L			J
3	SAMPLE	S10V000310		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
3	SAMPLE	S10V000310		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
3	SAMPLE	S10V000310		0 0			Chloroform	LIQUID	N/A	6.7300E-01			0.046	ug/L			
3	SAMPLE	S10V000310		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
3	SAMPLE	S10V000310		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
3	SAMPLE	S10V000310		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
3	SAMPLE	S10V000310		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
3	SAMPLE	S10V000310		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
3	SAMPLE	S10V000310		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
3	SAMPLE	S10V000310		0 0			Toluene	LIQUID	N/A	9.1410E-02			0.058	ug/L			BJ
3	SAMPLE	S10V000310		0 0			trans-1,3-Dichloroprope ne	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
3	SAMPLE	S10V000310		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
3	SAMPLE	S10V000310		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
3	SAMPLE	S10V000310		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
3	SAMPLE	S10V000310		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
3	SAMPLE	S10V000310		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U

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LABCORE Completed Batch Report for Batch# 00019080

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000310		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
3	SAMPLE	S10V000310		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
3	SAMPLE	S10V000310		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
3	SAMPLE	S10V000310		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
3	SAMPLE	S10V000310		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
3	SAMPLE	S10V000310		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
3	SAMPLE	S10V000310		0 0			4-Bromofluorobenzene	LIQUID	11.11111	9.9230E+00			0.090555	ug/L	89.307	% Recovery	
3	SAMPLE	S10V000310		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0278E+01			0.059222	ug/L	92.502	% Recovery	
3	SAMPLE	S10V000310		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0694E+01			0.16567	ug/L	96.246	% Recovery	
3	SAMPLE	S10V000310		0 0			Toluene-d8	LIQUID	11.11111	1.1611E+01			0.077422	ug/L	104.5	% Recovery	
3	SAMPLE	S10V000310		0 0			Unknown-1	LIQUID		1.7136566				ug/L			JT
3	SAMPLE	S10V000310		0 0			Unknown-2	LIQUID		4.7473205				ug/L			BJT
3	SAMPLE	S10V000310		0 0			Unknown-3	LIQUID		2.8131953				ug/L			JT
Sample Sequence 4																	
4	MS	S1008160063	S10V000310	0 0			1,1-Dichloroethene	LIQUID	11.11111	1.1208E+01			0.19089	ug/L	100.87	% Recovery	
4	MS	S1008160063	S10V000310	0 0			1-Butanol	LIQUID	111.1111	1.0504E+02			1.2766	ug/L	94.536	% Recovery	
4	MS	S1008160063	S10V000310	0 0			4-Methyl-2-pentanone	LIQUID	55.55555	5.4206E+01			0.50322	ug/L	97.571	% Recovery	
4	MS	S1008160063	S10V000310	0 0			Acetone	LIQUID	55.55555	5.0497E+01			0.63689	ug/L	90.895	% Recovery	
4	MS	S1008160063	S10V000310	0 0			Benzene	LIQUID	11.11111	1.0438E+01			0.018111	ug/L	93.53	% Recovery	
4	MS	S1008160063	S10V000310	0 0			Chlorobenzene	LIQUID	11.11111	1.0440E+01			0.035555	ug/L	93.96	% Recovery	
4	MS	S1008160063	S10V000310	0 0			2-Butanone	LIQUID	55.55555	4.9374E+01			0.50911	ug/L	88.873	% Recovery	
4	MS	S1008160063	S10V000310	0 0			Toluene	LIQUID	11.11111	1.0787E+01			0.058	ug/L	96.26	% Recovery	
4	MS	S1008160063	S10V000310	0 0			Trichloroethene	LIQUID	11.11111	1.0152E+01			0.041999	ug/L	91.368	% Recovery	
Sample Sequence 5																	
5	MSD	S1008160064	S10V000310	0 0			1,1-Dichloroethene	LIQUID	11.11111	1.1664E+01			0.19089	ug/L	104.98	% Recovery	
															3.9932	% RPD	
5	MSD	S1008160064	S10V000310	0 0			1-Butanol	LIQUID	111.1111	1.3334E+02			1.2766	ug/L	120.01	% Recovery	
															23.747	% RPD	
5	MSD	S1008160064	S10V000310	0 0			4-Methyl-2-pentanone	LIQUID	55.55555	6.5248E+01			0.50322	ug/L	117.45	% Recovery	
															18.490	% RPD	
5	MSD	S1008160064	S10V000310	0 0			Acetone	LIQUID	55.55555	6.1860E+01			0.63689	ug/L	111.35	% Recovery	
															20.228	% RPD	
5	MSD	S1008160064	S10V000310	0 0			Benzene	LIQUID	11.11111	1.0534E+01			0.018111	ug/L	94.394	% Recovery	
															0.91952	% RPD	
5	MSD	S1008160064	S10V000310	0 0			Chlorobenzene	LIQUID	11.11111	1.0416E+01			0.035555	ug/L	93.744	% Recovery	
															0.23015	% RPD	
5	MSD	S1008160064	S10V000310	0 0			2-Butanone	LIQUID	55.55555	5.9267E+01			0.50911	ug/L	106.68	% Recovery	
															18.212	% RPD	
5	MSD	S1008160064	S10V000310	0 0			Toluene	LIQUID	11.11111	1.0789E+01			0.058	ug/L	96.278	% Recovery	
															0.018698	% RPD	
5	MSD	S1008160064	S10V000310	0 0			Trichloroethene	LIQUID	11.11111	1.0074E+01			0.041999	ug/L	90.666	% Recovery	
															0.77128	% RPD	

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LABCORE Completed Batch Report for Batch# 00019080

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 6																	
6	SAMPLE	S10V000312		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
6	SAMPLE	S10V000312		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
6	SAMPLE	S10V000312		0 0			1,1,2,2-Tetrachloroetha ne	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
6	SAMPLE	S10V000312		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
6	SAMPLE	S10V000312		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
6	SAMPLE	S10V000312		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
6	SAMPLE	S10V000312		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
6	SAMPLE	S10V000312		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			U
6	SAMPLE	S10V000312		0 0			Benzene	LIQUID	N/A	<1.8111E-02			0.018111	ug/L			U
6	SAMPLE	S10V000312		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
6	SAMPLE	S10V000312		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
6	SAMPLE	S10V000312		0 0			Chloroform	LIQUID	N/A	5.3540E-01			0.046	ug/L			
6	SAMPLE	S10V000312		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
6	SAMPLE	S10V000312		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
6	SAMPLE	S10V000312		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
6	SAMPLE	S10V000312		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
6	SAMPLE	S10V000312		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
6	SAMPLE	S10V000312		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
6	SAMPLE	S10V000312		0 0			Toluene	LIQUID	N/A	1.5770E-01			0.058	ug/L			BJ
6	SAMPLE	S10V000312		0 0			trans-1,3-Dichloroprope ne	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
6	SAMPLE	S10V000312		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
6	SAMPLE	S10V000312		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
6	SAMPLE	S10V000312		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
6	SAMPLE	S10V000312		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
6	SAMPLE	S10V000312		0 0			112Trichloro-122Triflu oroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
6	SAMPLE	S10V000312		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
6	SAMPLE	S10V000312		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
6	SAMPLE	S10V000312		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
6	SAMPLE	S10V000312		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
6	SAMPLE	S10V000312		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
6	SAMPLE	S10V000312		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
6	SAMPLE	S10V000312		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.0537E+01			0.090555	ug/L	94.833	% Recovery	
6	SAMPLE	S10V000312		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0349E+01			0.059222	ug/L	93.141	% Recovery	
6	SAMPLE	S10V000312		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0952E+01			0.16567	ug/L	98.568	% Recovery	
6	SAMPLE	S10V000312		0 0			Toluene-d8	LIQUID	11.11111	1.1543E+01			0.077422	ug/L	103.89	% Recovery	
6	SAMPLE	S10V000312		0 0			Unknown-1	LIQUID		3.2954794				ug/L			BJT
6	SAMPLE	S10V000312		0 0			Unknown-2	LIQUID		1.6131407				ug/L			JT
Sample Sequence 7																	
7	SAMPLE	S10V000320		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U

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LABCORE Completed Batch Report for Batch# 00019080

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	SAMPLE	S10V000320		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
7	SAMPLE	S10V000320		0 0			1,1,2,2-Tetrachloroethane	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
7	SAMPLE	S10V000320		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
7	SAMPLE	S10V000320		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
7	SAMPLE	S10V000320		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
7	SAMPLE	S10V000320		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
7	SAMPLE	S10V000320		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			U
7	SAMPLE	S10V000320		0 0			Benzene	LIQUID	N/A	<1.8111E-02			0.018111	ug/L			U
7	SAMPLE	S10V000320		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
7	SAMPLE	S10V000320		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
7	SAMPLE	S10V000320		0 0			Chloroform	LIQUID	N/A	7.0660E-01			0.046	ug/L			
7	SAMPLE	S10V000320		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
7	SAMPLE	S10V000320		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
7	SAMPLE	S10V000320		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
7	SAMPLE	S10V000320		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
7	SAMPLE	S10V000320		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
7	SAMPLE	S10V000320		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
7	SAMPLE	S10V000320		0 0			Toluene	LIQUID	N/A	1.9980E-01			0.058	ug/L			BJ
7	SAMPLE	S10V000320		0 0			trans-1,3-Dichloropropene	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
7	SAMPLE	S10V000320		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
7	SAMPLE	S10V000320		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
7	SAMPLE	S10V000320		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
7	SAMPLE	S10V000320		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
7	SAMPLE	S10V000320		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
7	SAMPLE	S10V000320		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
7	SAMPLE	S10V000320		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
7	SAMPLE	S10V000320		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
7	SAMPLE	S10V000320		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
7	SAMPLE	S10V000320		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
7	SAMPLE	S10V000320		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
7	SAMPLE	S10V000320		0 0			4-Bromofluorobenzene	LIQUID	11.11111	9.7580E+00			0.090555	ug/L	87.822	% Recovery	
7	SAMPLE	S10V000320		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0033E+01			0.059222	ug/L	90.297	% Recovery	
7	SAMPLE	S10V000320		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	9.8510E+00			0.16567	ug/L	88.659	% Recovery	
7	SAMPLE	S10V000320		0 0			Toluene-d8	LIQUID	11.11111	1.0885E+01			0.077422	ug/L	97.965	% Recovery	
7	SAMPLE	S10V000320		0 0			Unknown-1	LIQUID		5.9876771				ug/L			BJT
7	SAMPLE	S10V000320		0 0			Unknown-2	LIQUID		3.5574938				ug/L			JT
Sample Sequence 8																	
8	SAMPLE	S10V000321		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
8	SAMPLE	S10V000321		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019080

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
8	SAMPLE	S10V000321		0 0			1,1,2,2-Tetrachloroethane	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
8	SAMPLE	S10V000321		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
8	SAMPLE	S10V000321		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
8	SAMPLE	S10V000321		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
8	SAMPLE	S10V000321		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
8	SAMPLE	S10V000321		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			U
8	SAMPLE	S10V000321		0 0			Benzene	LIQUID	N/A	<1.8111E-02			0.018111	ug/L			U
8	SAMPLE	S10V000321		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
8	SAMPLE	S10V000321		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
8	SAMPLE	S10V000321		0 0			Chloroform	LIQUID	N/A	5.8020E-01			0.046	ug/L			
8	SAMPLE	S10V000321		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
8	SAMPLE	S10V000321		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
8	SAMPLE	S10V000321		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
8	SAMPLE	S10V000321		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
8	SAMPLE	S10V000321		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
8	SAMPLE	S10V000321		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
8	SAMPLE	S10V000321		0 0			Toluene	LIQUID	N/A	1.4520E-01			0.058	ug/L			BJ
8	SAMPLE	S10V000321		0 0			trans-1,3-Dichloropropene	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
8	SAMPLE	S10V000321		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
8	SAMPLE	S10V000321		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
8	SAMPLE	S10V000321		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
8	SAMPLE	S10V000321		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
8	SAMPLE	S10V000321		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
8	SAMPLE	S10V000321		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
8	SAMPLE	S10V000321		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
8	SAMPLE	S10V000321		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
8	SAMPLE	S10V000321		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
8	SAMPLE	S10V000321		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
8	SAMPLE	S10V000321		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
8	SAMPLE	S10V000321		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.0096E+01			0.090555	ug/L	90.864	% Recovery	
8	SAMPLE	S10V000321		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0284E+01			0.059222	ug/L	92.556	% Recovery	
8	SAMPLE	S10V000321		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0486E+01			0.16567	ug/L	94.374	% Recovery	
8	SAMPLE	S10V000321		0 0			Toluene-d8	LIQUID	11.11111	1.1480E+01			0.077422	ug/L	103.32	% Recovery	
8	SAMPLE	S10V000321		0 0			Isopropyl Alcohol	LIQUID	N/A	2.5115451				ug/L			JNT
8	SAMPLE	S10V000321		0 0			Unknown-1	LIQUID		5.6951914				ug/L			BJT
8	SAMPLE	S10V000321		0 0			Unknown-2	LIQUID		4.3636111				ug/L			JT

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019080

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019080

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019080

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004270036	BLNK				
2	S1004270037	LCS				
3	S10V000310	SAMPLE		20100160	B23MR0	C Farm WMC 2010-1
4	S1008160063	MS	S10V000310			
5	S1008160064	MSD	S10V000310			
6	S10V000312	SAMPLE		20100160	B23MR2	C Farm WMC 2010-1
7	S10V000320	SAMPLE		20100160	B238F5	C Farm WMC 2010-1
8	S10V000321	SAMPLE		20100160	B238F6	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019081

Analyst: Getz, Andrew

Book#:

Instrument: GCMSD3 (OHURA) for VOA

Method: VOA 222S #2, LA-523-118 Rev/Mod G-0-A

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: C Farm WMC 2010-1, VOA, Liquid, Group 20100160

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1004270041		0 0			1,1,1-Trichloroethane	LIQUID		<4.3299E-02			0.043299	ug/L			U
1	BLNK	S1004270041		0 0			1,1,2-Trichloroethane	LIQUID		<2.3000E-02			0.023	ug/L			U
1	BLNK	S1004270041		0 0			1,1,2,2-Tetrachloroethane	LIQUID		<2.0299E-02			0.020299	ug/L			U
1	BLNK	S1004270041		0 0			1,1-Dichloroethene	LIQUID		<1.7180E-01			0.1718	ug/L			U
1	BLNK	S1004270041		0 0			1,2-Dichloroethane	LIQUID		<2.4300E-02			0.0243	ug/L			U
1	BLNK	S1004270041		0 0			1-Butanol	LIQUID		<1.1489E+00			1.1489	ug/L			U
1	BLNK	S1004270041		0 0			4-Methyl-2-pentanone	LIQUID		<4.5290E-01			0.4529	ug/L			U
1	BLNK	S1004270041		0 0			Acetone	LIQUID		4.8620E+00			0.5732	ug/L			J
1	BLNK	S1004270041		0 0			Benzene	LIQUID		<1.6300E-02			0.0163	ug/L			U
1	BLNK	S1004270041		0 0			Carbon Disulfide	LIQUID		<2.1099E-02			0.021099	ug/L			U
1	BLNK	S1004270041		0 0			Carbon Tetrachloride	LIQUID		<4.7900E-02			0.0479	ug/L			U
1	BLNK	S1004270041		0 0			Chloroform	LIQUID		<4.1400E-02			0.0414	ug/L			U
1	BLNK	S1004270041		0 0			Chlorobenzene	LIQUID		<3.1999E-02			0.031999	ug/L			U
1	BLNK	S1004270041		0 0			Ethylbenzene	LIQUID		<3.3399E-02			0.033399	ug/L			U
1	BLNK	S1004270041		0 0			Xylenes (total)	LIQUID		<9.3999E-02			0.093999	ug/L			U
1	BLNK	S1004270041		0 0			2-Butanone	LIQUID		<4.5820E-01			0.4582	ug/L			U
1	BLNK	S1004270041		0 0			Methylene Chloride	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1004270041		0 0			Tetrachloroethene	LIQUID		<5.8300E-02			0.0583	ug/L			U
1	BLNK	S1004270041		0 0			Toluene	LIQUID		8.4870E-02			0.0522	ug/L			J
1	BLNK	S1004270041		0 0			trans-1,3-Dichloropropene	LIQUID		<5.9100E-02			0.0591	ug/L			U
1	BLNK	S1004270041		0 0			Trichloroethene	LIQUID		<3.7799E-02			0.037799	ug/L			U
1	BLNK	S1004270041		0 0			Vinyl Chloride	LIQUID		<4.8600E-02			0.0486	ug/L			U
1	BLNK	S1004270041		0 0			cis-Dichloroethylene	LIQUID		<5.8200E-02			0.0582	ug/L			U
1	BLNK	S1004270041		0 0			trans-Dichloroethylene	LIQUID		<7.5199E-02			0.075199	ug/L			U
1	BLNK	S1004270041		0 0			112Trichloro-122Trifluoroethan	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1004270041		0 0			2-Nitropropane	LIQUID		<2.6510E-01			0.2651	ug/L			U
1	BLNK	S1004270041		0 0			Ethyl acetate	LIQUID		<1.8340E-01			0.1834	ug/L			U
1	BLNK	S1004270041		0 0			Diethyl ether	LIQUID		<4.2300E-02			0.0423	ug/L			U
1	BLNK	S1004270041		0 0			Trichlorofluoromethane	LIQUID		<4.5800E-02			0.0458	ug/L			U

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LABCORE Completed Batch Report for Batch# 00019081

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1004270041		0 0			o-Xylene	LIQUID		<3.2499E-02			0.032499	ug/L			U
1	BLNK	S1004270041		0 0			m,p-Xylene	LIQUID		<7.0300E-02			0.0703	ug/L			U
1	BLNK	S1004270041		0 0			Chloromethane	LIQUID		<2.7500E-02			0.0275	ug/L			U
1	BLNK	S1004270041		0 0			Chlorodifluoromethane	LIQUID		2.3674249				ug/L			JNT
1	BLNK	S1004270041		0 0			Unknown-1	LIQUID		1.2896736				ug/L			JT
Sample Sequence 2																	
2	LCS	S1004270042		0 0			1,1-Dichloroethene	LIQUID	10	1.1137E+01			0.1718	ug/L	111.37	% Recovery	
2	LCS	S1004270042		0 0			1-Butanol	LIQUID	100	1.0611E+02			1.1489	ug/L	106.11	% Recovery	
2	LCS	S1004270042		0 0			4-Methyl-2-pentanone	LIQUID	50	5.6852E+01			0.4529	ug/L	113.7	% Recovery	
2	LCS	S1004270042		0 0			Acetone	LIQUID	50	6.1551E+01			0.5732	ug/L	123.1	% Recovery	
2	LCS	S1004270042		0 0			Benzene	LIQUID	10	1.0054E+01			0.0163	ug/L	100.54	% Recovery	
2	LCS	S1004270042		0 0			Chlorobenzene	LIQUID	10	1.0006E+01			0.031999	ug/L	100.06	% Recovery	
2	LCS	S1004270042		0 0			2-Butanone	LIQUID	50	5.1286E+01			0.4582	ug/L	102.57	% Recovery	
2	LCS	S1004270042		0 0			Toluene	LIQUID	10	1.0500E+01			0.0522	ug/L	105	% Recovery	
2	LCS	S1004270042		0 0			Trichloroethene	LIQUID	10	9.8520E+00			0.037799	ug/L	98.52	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000322		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
3	SAMPLE	S10V000322		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
3	SAMPLE	S10V000322		0 0			1,1,2,2-Tetrachloroethane	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
3	SAMPLE	S10V000322		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
3	SAMPLE	S10V000322		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
3	SAMPLE	S10V000322		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
3	SAMPLE	S10V000322		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
3	SAMPLE	S10V000322		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			U
3	SAMPLE	S10V000322		0 0			Benzene	LIQUID	N/A	<1.8111E-02			0.018111	ug/L			U
3	SAMPLE	S10V000322		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
3	SAMPLE	S10V000322		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
3	SAMPLE	S10V000322		0 0			Chloroform	LIQUID	N/A	5.6180E-01			0.046	ug/L			
3	SAMPLE	S10V000322		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
3	SAMPLE	S10V000322		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
3	SAMPLE	S10V000322		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
3	SAMPLE	S10V000322		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
3	SAMPLE	S10V000322		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
3	SAMPLE	S10V000322		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
3	SAMPLE	S10V000322		0 0			Toluene	LIQUID	N/A	6.4490E-02			0.058	ug/L			BJ
3	SAMPLE	S10V000322		0 0			trans-1,3-Dichloropropene	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
3	SAMPLE	S10V000322		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
3	SAMPLE	S10V000322		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
3	SAMPLE	S10V000322		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
3	SAMPLE	S10V000322		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019081

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000322		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
3	SAMPLE	S10V000322		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
3	SAMPLE	S10V000322		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
3	SAMPLE	S10V000322		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
3	SAMPLE	S10V000322		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
3	SAMPLE	S10V000322		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
3	SAMPLE	S10V000322		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
3	SAMPLE	S10V000322		0 0			4-Bromofluorobenzene	LIQUID	11.11111	9.2520E+00			0.090555	ug/L	83.268	% Recovery	
3	SAMPLE	S10V000322		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0244E+01			0.059222	ug/L	92.196	% Recovery	
3	SAMPLE	S10V000322		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0190E+01			0.16567	ug/L	91.71	% Recovery	
3	SAMPLE	S10V000322		0 0			Toluene-d8	LIQUID	11.11111	1.1355E+01			0.077422	ug/L	102.2	% Recovery	
3	SAMPLE	S10V000322		0 0			Chloromethane	LIQUID	N/A	2.2070E-01			0.030555	ug/L			J
3	SAMPLE	S10V000322		0 0			Unknown-1	LIQUID		5.2235651				ug/L			BJT
3	SAMPLE	S10V000322		0 0			Unknown-2	LIQUID		2.806135				ug/L			JT
Sample Sequence 4																	
4	SAMPLE	S10V000323		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
4	SAMPLE	S10V000323		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
4	SAMPLE	S10V000323		0 0			1,1,2,2-Tetrachloroethane	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
4	SAMPLE	S10V000323		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
4	SAMPLE	S10V000323		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
4	SAMPLE	S10V000323		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
4	SAMPLE	S10V000323		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
4	SAMPLE	S10V000323		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			U
4	SAMPLE	S10V000323		0 0			Benzene	LIQUID	N/A	4.9780E-02			0.018111	ug/L			J
4	SAMPLE	S10V000323		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
4	SAMPLE	S10V000323		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
4	SAMPLE	S10V000323		0 0			Chloroform	LIQUID	N/A	5.9280E-01			0.046	ug/L			
4	SAMPLE	S10V000323		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
4	SAMPLE	S10V000323		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
4	SAMPLE	S10V000323		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
4	SAMPLE	S10V000323		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
4	SAMPLE	S10V000323		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
4	SAMPLE	S10V000323		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
4	SAMPLE	S10V000323		0 0			Toluene	LIQUID	N/A	<5.8000E-02			0.058	ug/L			U
4	SAMPLE	S10V000323		0 0			trans-1,3-Dichloropropene	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
4	SAMPLE	S10V000323		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
4	SAMPLE	S10V000323		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
4	SAMPLE	S10V000323		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
4	SAMPLE	S10V000323		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019081

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
4	SAMPLE	S10V000323		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
4	SAMPLE	S10V000323		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
4	SAMPLE	S10V000323		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
4	SAMPLE	S10V000323		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
4	SAMPLE	S10V000323		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
4	SAMPLE	S10V000323		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
4	SAMPLE	S10V000323		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
4	SAMPLE	S10V000323		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.0123E+01			0.090555	ug/L	91.107	% Recovery	
4	SAMPLE	S10V000323		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0748E+01			0.059222	ug/L	96.732	% Recovery	
4	SAMPLE	S10V000323		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0763E+01			0.16567	ug/L	96.867	% Recovery	
4	SAMPLE	S10V000323		0 0			Toluene-d8	LIQUID	11.11111	1.1805E+01			0.077422	ug/L	106.25	% Recovery	
4	SAMPLE	S10V000323		0 0			Chloromethane	LIQUID	N/A	2.7830E-01			0.030555	ug/L			J
4	SAMPLE	S10V000323		0 0			Unknown-1	LIQUID		9.6602218				ug/L			BJT
4	SAMPLE	S10V000323		0 0			Unknown-2	LIQUID		5.7860283				ug/L			JT
Sample Sequence 5																	
5	SAMPLE	S10V000311		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
5	SAMPLE	S10V000311		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
5	SAMPLE	S10V000311		0 0			1,1,2,2-Tetrachloroethane	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
5	SAMPLE	S10V000311		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
5	SAMPLE	S10V000311		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
5	SAMPLE	S10V000311		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
5	SAMPLE	S10V000311		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
5	SAMPLE	S10V000311		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			U
5	SAMPLE	S10V000311		0 0			Benzene	LIQUID	N/A	<1.8111E-02			0.018111	ug/L			U
5	SAMPLE	S10V000311		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
5	SAMPLE	S10V000311		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
5	SAMPLE	S10V000311		0 0			Chloroform	LIQUID	N/A	5.9560E-01			0.046	ug/L			
5	SAMPLE	S10V000311		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
5	SAMPLE	S10V000311		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
5	SAMPLE	S10V000311		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
5	SAMPLE	S10V000311		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
5	SAMPLE	S10V000311		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
5	SAMPLE	S10V000311		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
5	SAMPLE	S10V000311		0 0			Toluene	LIQUID	N/A	1.8310E-01			0.058	ug/L			BJ
5	SAMPLE	S10V000311		0 0			trans-1,3-Dichloropropene	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
5	SAMPLE	S10V000311		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
5	SAMPLE	S10V000311		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
5	SAMPLE	S10V000311		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
5	SAMPLE	S10V000311		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U

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LABCORE Completed Batch Report for Batch# 00019081

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
5	SAMPLE	S10V000311		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
5	SAMPLE	S10V000311		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
5	SAMPLE	S10V000311		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
5	SAMPLE	S10V000311		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
5	SAMPLE	S10V000311		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
5	SAMPLE	S10V000311		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
5	SAMPLE	S10V000311		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
5	SAMPLE	S10V000311		0 0			4-Bromofluorobenzene	LIQUID	11.11111	9.7770E+00			0.090555	ug/L	87.993	% Recovery	
5	SAMPLE	S10V000311		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0127E+01			0.059222	ug/L	91.143	% Recovery	
5	SAMPLE	S10V000311		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0885E+01			0.16567	ug/L	97.965	% Recovery	
5	SAMPLE	S10V000311		0 0			Toluene-d8	LIQUID	11.11111	1.1638E+01			0.077422	ug/L	104.74	% Recovery	
5	SAMPLE	S10V000311		0 0			Chloromethane	LIQUID	N/A	8.5770E-01			0.030555	ug/L			
5	SAMPLE	S10V000311		0 0			Unknown-1	LIQUID		5.0490214				ug/L			JT

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019081

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00019081

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004270041	BLNK				
2	S1004270042	LCS				
3	S10V000322	SAMPLE		20100160	B23MP2	C Farm WMC 2010-1
4	S10V000323	SAMPLE		20100160	B23MP3	C Farm WMC 2010-1
5	S10V000311	SAMPLE		20100160	B23MR1	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019447

Analyst: Getz, Andrew

Book#:

Instrument: GCMSD3 (OHURA) for VOA

Method: VOA 222S #2, LA-523-118 Rev/Mod G-0-A

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: C Farm WMC 2010-1, VOA, Liquid, Group 20100160

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1005180057		0 0			1,1,1-Trichloroethane	LIQUID		<4.3299E-02			0.043299	ug/L			U
1	BLNK	S1005180057		0 0			1,1,2-Trichloroethane	LIQUID		<2.3000E-02			0.023	ug/L			U
1	BLNK	S1005180057		0 0			1,1,2,2-Tetrachloroethane	LIQUID		<2.0299E-02			0.020299	ug/L			U
1	BLNK	S1005180057		0 0			1,1-Dichloroethene	LIQUID		<1.7180E-01			0.1718	ug/L			U
1	BLNK	S1005180057		0 0			1,2-Dichloroethane	LIQUID		<2.4300E-02			0.0243	ug/L			U
1	BLNK	S1005180057		0 0			1-Butanol	LIQUID		<1.1489E+00			1.1489	ug/L			U
1	BLNK	S1005180057		0 0			4-Methyl-2-pentanone	LIQUID		<4.5290E-01			0.4529	ug/L			U
1	BLNK	S1005180057		0 0			Acetone	LIQUID		2.1630E+01			0.5732	ug/L			J
1	BLNK	S1005180057		0 0			Benzene	LIQUID		<1.6300E-02			0.0163	ug/L			U
1	BLNK	S1005180057		0 0			Carbon Disulfide	LIQUID		<2.1099E-02			0.021099	ug/L			U
1	BLNK	S1005180057		0 0			Carbon Tetrachloride	LIQUID		<4.7900E-02			0.0479	ug/L			U
1	BLNK	S1005180057		0 0			Chloroform	LIQUID		<4.1400E-02			0.0414	ug/L			U
1	BLNK	S1005180057		0 0			Chlorobenzene	LIQUID		<3.1999E-02			0.031999	ug/L			U
1	BLNK	S1005180057		0 0			Ethylbenzene	LIQUID		<3.3399E-02			0.033399	ug/L			U
1	BLNK	S1005180057		0 0			Xylenes (total)	LIQUID		<9.3999E-02			0.093999	ug/L			U
1	BLNK	S1005180057		0 0			2-Butanone	LIQUID		<4.5820E-01			0.4582	ug/L			U
1	BLNK	S1005180057		0 0			Methylene Chloride	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1005180057		0 0			Tetrachloroethene	LIQUID		<5.8300E-02			0.0583	ug/L			U
1	BLNK	S1005180057		0 0			Toluene	LIQUID		6.9940E-02			0.0522	ug/L			J
1	BLNK	S1005180057		0 0			trans-1,3-Dichloropropene	LIQUID		<5.9100E-02			0.0591	ug/L			U
1	BLNK	S1005180057		0 0			Trichloroethene	LIQUID		<3.7799E-02			0.037799	ug/L			U
1	BLNK	S1005180057		0 0			Vinyl Chloride	LIQUID		<4.8600E-02			0.0486	ug/L			U
1	BLNK	S1005180057		0 0			cis-Dichloroethylene	LIQUID		<5.8200E-02			0.0582	ug/L			U
1	BLNK	S1005180057		0 0			trans-Dichloroethylene	LIQUID		<7.5199E-02			0.075199	ug/L			U
1	BLNK	S1005180057		0 0			112Trichloro-122Trifluoroethan	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1005180057		0 0			2-Nitropropane	LIQUID		<2.6510E-01			0.2651	ug/L			U
1	BLNK	S1005180057		0 0			Ethyl acetate	LIQUID		<1.8340E-01			0.1834	ug/L			U
1	BLNK	S1005180057		0 0			Diethyl ether	LIQUID		<4.2300E-02			0.0423	ug/L			U
1	BLNK	S1005180057		0 0			Trichlorofluoromethane	LIQUID		<4.5800E-02			0.0458	ug/L			U

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LABCORE Completed Batch Report for Batch# 00019447

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1005180057		0 0			o-Xylene	LIQUID		<3.2499E-02			0.032499	ug/L			U
1	BLNK	S1005180057		0 0			m,p-Xylene	LIQUID		<7.0300E-02			0.0703	ug/L			U
1	BLNK	S1005180057		0 0			Silanol, trimethyl-	LIQUID		1.6010818				ug/L			JNT
1	BLNK	S1005180057		0 0			Unknown-1	LIQUID		2.8958916				ug/L			JT
Sample Sequence 2																	
2	LCS	S1005180058		0 0			1,1-Dichloroethene	LIQUID	10	1.1877E+01			0.1718	ug/L	118.77	% Recovery	
2	LCS	S1005180058		0 0			1-Butanol	LIQUID	100	8.9062E+01			1.1489	ug/L	89.062	% Recovery	
2	LCS	S1005180058		0 0			4-Methyl-2-pentanone	LIQUID	50	5.5885E+01			0.4529	ug/L	111.77	% Recovery	
2	LCS	S1005180058		0 0			Acetone	LIQUID	50	7.5781E+01			0.5732	ug/L	151.56	% Recovery	
2	LCS	S1005180058		0 0			Benzene	LIQUID	10	1.0096E+01			0.0163	ug/L	100.96	% Recovery	
2	LCS	S1005180058		0 0			Chlorobenzene	LIQUID	10	1.0198E+01			0.031999	ug/L	101.98	% Recovery	
2	LCS	S1005180058		0 0			2-Butanone	LIQUID	50	4.7887E+01			0.4582	ug/L	95.774	% Recovery	
2	LCS	S1005180058		0 0			Toluene	LIQUID	10	1.0308E+01			0.0522	ug/L	103.08	% Recovery	
2	LCS	S1005180058		0 0			Trichloroethene	LIQUID	10	9.8740E+00			0.037799	ug/L	98.74	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000314		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
3	SAMPLE	S10V000314		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
3	SAMPLE	S10V000314		0 0			1,1,2,2-Tetrachloroetha ne	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
3	SAMPLE	S10V000314		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
3	SAMPLE	S10V000314		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
3	SAMPLE	S10V000314		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
3	SAMPLE	S10V000314		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
3	SAMPLE	S10V000314		0 0			Acetone	LIQUID	N/A	3.6540E+00			0.63689	ug/L			BJa
3	SAMPLE	S10V000314		0 0			Benzene	LIQUID	N/A	5.2380E-02			0.018111	ug/L			J
3	SAMPLE	S10V000314		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
3	SAMPLE	S10V000314		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
3	SAMPLE	S10V000314		0 0			Chloroform	LIQUID	N/A	5.0000E-01			0.046	ug/L			
3	SAMPLE	S10V000314		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
3	SAMPLE	S10V000314		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
3	SAMPLE	S10V000314		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
3	SAMPLE	S10V000314		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
3	SAMPLE	S10V000314		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
3	SAMPLE	S10V000314		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
3	SAMPLE	S10V000314		0 0			Toluene	LIQUID	N/A	1.6280E-01			0.058	ug/L			BJ
3	SAMPLE	S10V000314		0 0			trans-1,3-Dichloroprope ne	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
3	SAMPLE	S10V000314		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
3	SAMPLE	S10V000314		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
3	SAMPLE	S10V000314		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
3	SAMPLE	S10V000314		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
3	SAMPLE	S10V000314		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U

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LABCORE Completed Batch Report for Batch# 00019447

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000314		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
3	SAMPLE	S10V000314		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
3	SAMPLE	S10V000314		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
3	SAMPLE	S10V000314		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
3	SAMPLE	S10V000314		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
3	SAMPLE	S10V000314		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
3	SAMPLE	S10V000314		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.0249E+01			0.090555	ug/L	92.241	% Recovery	
3	SAMPLE	S10V000314		0 0			Dibromofluoromethane	LIQUID	11.11111	9.8040E+00			0.059222	ug/L	88.236	% Recovery	
3	SAMPLE	S10V000314		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	9.6150E+00			0.16567	ug/L	86.535	% Recovery	
3	SAMPLE	S10V000314		0 0			Toluene-d8	LIQUID	11.11111	1.1290E+01			0.077422	ug/L	101.61	% Recovery	
3	SAMPLE	S10V000314		0 0			Silanol, trimethyl-	LIQUID		1.6121791				ug/L			BJNT
3	SAMPLE	S10V000314		0 0			Unknown-1	LIQUID		1.7348956				ug/L			BJT
Sample Sequence 4																	
4	MS	S1005180060	S10V000314	0 0			1,1-Dichloroethene	LIQUID	11.11111	1.1860E+01			0.19089	ug/L	106.74	% Recovery	
4	MS	S1005180060	S10V000314	0 0			1-Butanol	LIQUID	111.1111	8.9664E+01			1.2766	ug/L	80.698	% Recovery	
4	MS	S1005180060	S10V000314	0 0			4-Methyl-2-pentanone	LIQUID	55.55555	5.4982E+01			0.50322	ug/L	98.968	% Recovery	
4	MS	S1005180060	S10V000314	0 0			Acetone	LIQUID	55.55555	5.8203E+01			0.63689	ug/L	98.188	% Recovery	
4	MS	S1005180060	S10V000314	0 0			Benzene	LIQUID	11.11111	1.0283E+01			0.018111	ug/L	92.076	% Recovery	
4	MS	S1005180060	S10V000314	0 0			Chlorobenzene	LIQUID	11.11111	1.0472E+01			0.035555	ug/L	94.248	% Recovery	
4	MS	S1005180060	S10V000314	0 0			2-Butanone	LIQUID	55.55555	4.8421E+01			0.50911	ug/L	87.158	% Recovery	
4	MS	S1005180060	S10V000314	0 0			Toluene	LIQUID	11.11111	1.0944E+01			0.058	ug/L	97.031	% Recovery	
4	MS	S1005180060	S10V000314	0 0			Trichloroethene	LIQUID	11.11111	9.7770E+00			0.041999	ug/L	87.993	% Recovery	
Sample Sequence 5																	
5	MSD	S1005180061	S10V000314	0 0			1,1-Dichloroethene	LIQUID	11.11111	1.2926E+01			0.19089	ug/L	116.33	% Recovery	
															8.5982	% RPD	
5	MSD	S1005180061	S10V000314	0 0			1-Butanol	LIQUID	111.1111	8.8204E+01			1.2766	ug/L	79.384	% Recovery	
															1.6417	% RPD	
5	MSD	S1005180061	S10V000314	0 0			4-Methyl-2-pentanone	LIQUID	55.55555	5.9580E+01			0.50322	ug/L	107.24	% Recovery	
															8.0230	% RPD	
5	MSD	S1005180061	S10V000314	0 0			Acetone	LIQUID	55.55555	5.9922E+01			0.63689	ug/L	101.28	% Recovery	
															3.1002	% RPD	
5	MSD	S1005180061	S10V000314	0 0			Benzene	LIQUID	11.11111	1.0907E+01			0.018111	ug/L	97.692	% Recovery	
															5.9188	% RPD	
5	MSD	S1005180061	S10V000314	0 0			Chlorobenzene	LIQUID	11.11111	1.1110E+01			0.035555	ug/L	99.99	% Recovery	
															5.9123	% RPD	
5	MSD	S1005180061	S10V000314	0 0			2-Butanone	LIQUID	55.55555	5.0606E+01			0.50911	ug/L	91.091	% Recovery	
															4.4129	% RPD	
5	MSD	S1005180061	S10V000314	0 0			Toluene	LIQUID	11.11111	1.1871E+01			0.058	ug/L	105.37	% Recovery	
															8.2401	% RPD	
5	MSD	S1005180061	S10V000314	0 0			Trichloroethene	LIQUID	11.11111	1.0432E+01			0.041999	ug/L	93.888	% Recovery	
															6.4823	% RPD	

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019447

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019447

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00019447

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005180057	BLNK				
2	S1005180058	LCS				
3	S10V000314	SAMPLE		20100160	B23MR4	C Farm WMC 2010-1
4	S1005180060	MS	S10V000314			
5	S1005180061	MSD	S10V000314			

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LABCORE Completed Batch Report for Batch# 00019485

Analyst: Getz, Andrew

Book#:

Instrument: GCMSD3 (OHURA) for VOA

Method: VOA 222S #2, LA-523-118 Rev/Mod G-0-A

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: C Farm 2010-1, VOA, Liq, Group 20100160

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1005190010		0 0			1,1,1-Trichloroethane	LIQUID		<4.3299E-02			0.043299	ug/L			U
1	BLNK	S1005190010		0 0			1,1,2-Trichloroethane	LIQUID		<2.3000E-02			0.023	ug/L			U
1	BLNK	S1005190010		0 0			1,1,2,2-Tetrachloroethane	LIQUID		<2.0299E-02			0.020299	ug/L			U
1	BLNK	S1005190010		0 0			1,1-Dichloroethene	LIQUID		<1.7180E-01			0.1718	ug/L			U
1	BLNK	S1005190010		0 0			1,2-Dichloroethane	LIQUID		<2.4300E-02			0.0243	ug/L			U
1	BLNK	S1005190010		0 0			1-Butanol	LIQUID		<1.1489E+00			1.1489	ug/L			U
1	BLNK	S1005190010		0 0			4-Methyl-2-pentanone	LIQUID		<4.5290E-01			0.4529	ug/L			U
1	BLNK	S1005190010		0 0			Acetone	LIQUID		2.5666E+01			0.5732	ug/L			J
1	BLNK	S1005190010		0 0			Benzene	LIQUID		4.2180E-02			0.0163	ug/L			J
1	BLNK	S1005190010		0 0			Carbon Disulfide	LIQUID		<2.1099E-02			0.021099	ug/L			U
1	BLNK	S1005190010		0 0			Carbon Tetrachloride	LIQUID		<4.7900E-02			0.0479	ug/L			U
1	BLNK	S1005190010		0 0			Chloroform	LIQUID		<4.1400E-02			0.0414	ug/L			U
1	BLNK	S1005190010		0 0			Chlorobenzene	LIQUID		<3.1999E-02			0.031999	ug/L			U
1	BLNK	S1005190010		0 0			Ethylbenzene	LIQUID		<3.3399E-02			0.033399	ug/L			U
1	BLNK	S1005190010		0 0			Xylenes (total)	LIQUID		<9.3999E-02			0.093999	ug/L			U
1	BLNK	S1005190010		0 0			2-Butanone	LIQUID		1.5070E+00			0.4582	ug/L			J
1	BLNK	S1005190010		0 0			Methylene Chloride	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1005190010		0 0			Tetrachloroethene	LIQUID		<5.8300E-02			0.0583	ug/L			U
1	BLNK	S1005190010		0 0			Toluene	LIQUID		5.5300E-02			0.0522	ug/L			J
1	BLNK	S1005190010		0 0			trans-1,3-Dichloropropene	LIQUID		<5.9100E-02			0.0591	ug/L			U
1	BLNK	S1005190010		0 0			Trichloroethene	LIQUID		<3.7799E-02			0.037799	ug/L			U
1	BLNK	S1005190010		0 0			Vinyl Chloride	LIQUID		<4.8600E-02			0.0486	ug/L			U
1	BLNK	S1005190010		0 0			cis-Dichloroethylene	LIQUID		<5.8200E-02			0.0582	ug/L			U
1	BLNK	S1005190010		0 0			trans-Dichloroethylene	LIQUID		<7.5199E-02			0.075199	ug/L			U
1	BLNK	S1005190010		0 0			112Trichloro-122Trifluoroethan	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1005190010		0 0			2-Nitropropane	LIQUID		<2.6510E-01			0.2651	ug/L			U
1	BLNK	S1005190010		0 0			Ethyl acetate	LIQUID		<1.8340E-01			0.1834	ug/L			U
1	BLNK	S1005190010		0 0			Diethyl ether	LIQUID		<4.2300E-02			0.0423	ug/L			U
1	BLNK	S1005190010		0 0			Trichlorofluoromethane	LIQUID		<4.5800E-02			0.0458	ug/L			U

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LABCORE Completed Batch Report for Batch# 00019485

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1005190010		0 0			o-Xylene	LIQUID		<3.2499E-02			0.032499	ug/L			U
1	BLNK	S1005190010		0 0			m,p-Xylene	LIQUID		<7.0300E-02			0.0703	ug/L			U
1	BLNK	S1005190010		0 0			2-Hexanone	LIQUID		6.8050E-01			0.4543	ug/L			J
1	BLNK	S1005190010		0 0			Unknown-1	LIQUID		1.3330299				ug/L			JT
Sample Sequence 2																	
2	LCS	S1005190011		0 0			1,1-Dichloroethene	LIQUID	10	1.0909E+01			0.1718	ug/L	109.09	% Recovery	
2	LCS	S1005190011		0 0			1-Butanol	LIQUID	100	7.7123E+01			1.1489	ug/L	77.123	% Recovery	
2	LCS	S1005190011		0 0			4-Methyl-2-pentanone	LIQUID	50	5.4414E+01			0.4529	ug/L	108.83	% Recovery	
2	LCS	S1005190011		0 0			Acetone	LIQUID	50	7.9923E+01			0.5732	ug/L	159.85	% Recovery	
2	LCS	S1005190011		0 0			Benzene	LIQUID	10	9.7760E+00			0.0163	ug/L	97.76	% Recovery	
2	LCS	S1005190011		0 0			Chlorobenzene	LIQUID	10	9.6540E+00			0.031999	ug/L	96.54	% Recovery	
2	LCS	S1005190011		0 0			2-Butanone	LIQUID	50	4.7171E+01			0.4582	ug/L	94.342	% Recovery	
2	LCS	S1005190011		0 0			Toluene	LIQUID	10	9.9340E+00			0.0522	ug/L	99.34	% Recovery	
2	LCS	S1005190011		0 0			Trichloroethene	LIQUID	10	9.3690E+00			0.037799	ug/L	93.69	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000315		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
3	SAMPLE	S10V000315		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
3	SAMPLE	S10V000315		0 0			1,1,2,2-Tetrachloroetha ne	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
3	SAMPLE	S10V000315		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
3	SAMPLE	S10V000315		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
3	SAMPLE	S10V000315		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			Ub
3	SAMPLE	S10V000315		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
3	SAMPLE	S10V000315		0 0			Acetone	LIQUID	N/A	2.8930E+00			0.63689	ug/L			BJa
3	SAMPLE	S10V000315		0 0			Benzene	LIQUID	N/A	<1.8111E-02			0.018111	ug/L			U
3	SAMPLE	S10V000315		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
3	SAMPLE	S10V000315		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
3	SAMPLE	S10V000315		0 0			Chloroform	LIQUID	N/A	5.3300E-01			0.046	ug/L			
3	SAMPLE	S10V000315		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
3	SAMPLE	S10V000315		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
3	SAMPLE	S10V000315		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
3	SAMPLE	S10V000315		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
3	SAMPLE	S10V000315		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
3	SAMPLE	S10V000315		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
3	SAMPLE	S10V000315		0 0			Toluene	LIQUID	N/A	1.2650E-01			0.058	ug/L			BJ
3	SAMPLE	S10V000315		0 0			trans-1,3-Dichloroprope ne	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
3	SAMPLE	S10V000315		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
3	SAMPLE	S10V000315		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
3	SAMPLE	S10V000315		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
3	SAMPLE	S10V000315		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
3	SAMPLE	S10V000315		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U

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LABCORE Completed Batch Report for Batch# 00019485

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000315		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
3	SAMPLE	S10V000315		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
3	SAMPLE	S10V000315		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
3	SAMPLE	S10V000315		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
3	SAMPLE	S10V000315		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
3	SAMPLE	S10V000315		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
3	SAMPLE	S10V000315		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.1175E+01			0.090555	ug/L	100.58	% Recovery	
3	SAMPLE	S10V000315		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0727E+01			0.059222	ug/L	96.543	% Recovery	
3	SAMPLE	S10V000315		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0711E+01			0.16567	ug/L	96.399	% Recovery	
3	SAMPLE	S10V000315		0 0			Toluene-d8	LIQUID	11.11111	1.1694E+01			0.077422	ug/L	105.25	% Recovery	
3	SAMPLE	S10V000315		0 0			Unknown-1	LIQUID		2.0627486				ug/L			JT
3	SAMPLE	S10V000315		0 0			Unknown-2	LIQUID		2.2269155				ug/L			BJT
3	SAMPLE	S10V000315		0 0			Unknown-3	LIQUID		1.4282246				ug/L			JT
Sample Sequence 4																	
4	MS	S1005190013	S10V000315	0 0			1,1-Dichloroethene	LIQUID	11.11111	1.1697E+01			0.19089	ug/L	105.27	% Recovery	
4	MS	S1005190013	S10V000315	0 0			1-Butanol	LIQUID	111.1111	7.6319E+01			1.2766	ug/L	68.687	% Recovery	
4	MS	S1005190013	S10V000315	0 0			4-Methyl-2-pentanone	LIQUID	55.55555	5.1992E+01			0.50322	ug/L	93.586	% Recovery	
4	MS	S1005190013	S10V000315	0 0			Acetone	LIQUID	55.55555	5.7308E+01			0.63689	ug/L	97.947	% Recovery	
4	MS	S1005190013	S10V000315	0 0			Benzene	LIQUID	11.11111	1.0558E+01			0.018111	ug/L	95.022	% Recovery	
4	MS	S1005190013	S10V000315	0 0			Chlorobenzene	LIQUID	11.11111	1.0564E+01			0.035555	ug/L	95.076	% Recovery	
4	MS	S1005190013	S10V000315	0 0			2-Butanone	LIQUID	55.55555	4.6358E+01			0.50911	ug/L	83.444	% Recovery	
4	MS	S1005190013	S10V000315	0 0			Toluene	LIQUID	11.11111	1.1231E+01			0.058	ug/L	99.941	% Recovery	
4	MS	S1005190013	S10V000315	0 0			Trichloroethene	LIQUID	11.11111	1.0401E+01			0.041999	ug/L	93.609	% Recovery	
Sample Sequence 5																	
5	MSD	S1005190014	S10V000315	0 0			1,1-Dichloroethene	LIQUID	11.11111	1.2056E+01			0.19089	ug/L	108.5	% Recovery	
															3.0219	% RPD	
5	MSD	S1005190014	S10V000315	0 0			1-Butanol	LIQUID	111.1111	8.6919E+01			1.2766	ug/L	78.227	% Recovery	
															12.987	% RPD	
5	MSD	S1005190014	S10V000315	0 0			4-Methyl-2-pentanone	LIQUID	55.55555	5.6459E+01			0.50322	ug/L	101.63	% Recovery	
															8.2411	% RPD	
5	MSD	S1005190014	S10V000315	0 0			Acetone	LIQUID	55.55555	6.1281E+01			0.63689	ug/L	105.1	% Recovery	
															7.0457	% RPD	
5	MSD	S1005190014	S10V000315	0 0			Benzene	LIQUID	11.11111	1.1005E+01			0.018111	ug/L	99.045	% Recovery	
															4.1460	% RPD	
5	MSD	S1005190014	S10V000315	0 0			Chlorobenzene	LIQUID	11.11111	1.0462E+01			0.035555	ug/L	94.158	% Recovery	
															0.97023	% RPD	
5	MSD	S1005190014	S10V000315	0 0			2-Butanone	LIQUID	55.55555	5.0633E+01			0.50911	ug/L	91.139	% Recovery	
															8.8153	% RPD	
5	MSD	S1005190014	S10V000315	0 0			Toluene	LIQUID	11.11111	1.1397E+01			0.058	ug/L	101.43	% Recovery	
															1.4789	% RPD	
5	MSD	S1005190014	S10V000315	0 0			Trichloroethene	LIQUID	11.11111	1.0715E+01			0.041999	ug/L	96.435	% Recovery	
															2.9740	% RPD	

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LABCORE Completed Batch Report for Batch# 00019485

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 6																	
6	SAMPLE	S10V000316		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
6	SAMPLE	S10V000316		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
6	SAMPLE	S10V000316		0 0			1,1,2,2-Tetrachloroetha ne	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
6	SAMPLE	S10V000316		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
6	SAMPLE	S10V000316		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
6	SAMPLE	S10V000316		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			Ub
6	SAMPLE	S10V000316		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
6	SAMPLE	S10V000316		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			Ua
6	SAMPLE	S10V000316		0 0			Benzene	LIQUID	N/A	4.3710E-02			0.018111	ug/L			BJ
6	SAMPLE	S10V000316		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
6	SAMPLE	S10V000316		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
6	SAMPLE	S10V000316		0 0			Chloroform	LIQUID	N/A	1.1070E+00			0.046	ug/L			
6	SAMPLE	S10V000316		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
6	SAMPLE	S10V000316		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
6	SAMPLE	S10V000316		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
6	SAMPLE	S10V000316		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
6	SAMPLE	S10V000316		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
6	SAMPLE	S10V000316		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
6	SAMPLE	S10V000316		0 0			Toluene	LIQUID	N/A	2.6170E-01			0.058	ug/L			BJ
6	SAMPLE	S10V000316		0 0			trans-1,3-Dichloroprope ne	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
6	SAMPLE	S10V000316		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
6	SAMPLE	S10V000316		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
6	SAMPLE	S10V000316		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
6	SAMPLE	S10V000316		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
6	SAMPLE	S10V000316		0 0			112Trichloro-122Triflu oroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
6	SAMPLE	S10V000316		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
6	SAMPLE	S10V000316		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
6	SAMPLE	S10V000316		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
6	SAMPLE	S10V000316		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
6	SAMPLE	S10V000316		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
6	SAMPLE	S10V000316		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
6	SAMPLE	S10V000316		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.0331E+01			0.090555	ug/L	92.979	% Recovery	
6	SAMPLE	S10V000316		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0052E+01			0.059222	ug/L	90.468	% Recovery	
6	SAMPLE	S10V000316		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.1067E+01			0.16567	ug/L	99.603	% Recovery	
6	SAMPLE	S10V000316		0 0			Toluene-d8	LIQUID	11.11111	1.1159E+01			0.077422	ug/L	100.43	% Recovery	
6	SAMPLE	S10V000316		0 0			Unknown-1	LIQUID		3.5632774				ug/L			BJT
6	SAMPLE	S10V000316		0 0			Unknown-2	LIQUID		2.4799801				ug/L			JT
Sample Sequence 7																	
7	SAMPLE	S10V000324		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019485

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	SAMPLE	S10V000324		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
7	SAMPLE	S10V000324		0 0			1,1,2,2-Tetrachloroetha ne	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
7	SAMPLE	S10V000324		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
7	SAMPLE	S10V000324		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
7	SAMPLE	S10V000324		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			Ub
7	SAMPLE	S10V000324		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
7	SAMPLE	S10V000324		0 0			Acetone	LIQUID	N/A	2.5210E+00			0.63689	ug/L			BJa
7	SAMPLE	S10V000324		0 0			Benzene	LIQUID	N/A	4.4380E-02			0.018111	ug/L			BJ
7	SAMPLE	S10V000324		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
7	SAMPLE	S10V000324		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
7	SAMPLE	S10V000324		0 0			Chloroform	LIQUID	N/A	5.1340E-01			0.046	ug/L			
7	SAMPLE	S10V000324		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
7	SAMPLE	S10V000324		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
7	SAMPLE	S10V000324		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
7	SAMPLE	S10V000324		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
7	SAMPLE	S10V000324		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
7	SAMPLE	S10V000324		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
7	SAMPLE	S10V000324		0 0			Toluene	LIQUID	N/A	1.8860E-01			0.058	ug/L			BJ
7	SAMPLE	S10V000324		0 0			trans-1,3-Dichloroprope ne	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
7	SAMPLE	S10V000324		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
7	SAMPLE	S10V000324		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
7	SAMPLE	S10V000324		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
7	SAMPLE	S10V000324		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
7	SAMPLE	S10V000324		0 0			112Trichloro-122Triflu oroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
7	SAMPLE	S10V000324		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
7	SAMPLE	S10V000324		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
7	SAMPLE	S10V000324		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
7	SAMPLE	S10V000324		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
7	SAMPLE	S10V000324		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
7	SAMPLE	S10V000324		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
7	SAMPLE	S10V000324		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.0726E+01			0.090555	ug/L	96.534	% Recovery	
7	SAMPLE	S10V000324		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0621E+01			0.059222	ug/L	95.589	% Recovery	
7	SAMPLE	S10V000324		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0577E+01			0.16567	ug/L	95.193	% Recovery	
7	SAMPLE	S10V000324		0 0			Toluene-d8	LIQUID	11.11111	1.1603E+01			0.077422	ug/L	104.43	% Recovery	
7	SAMPLE	S10V000324		0 0			Unknown-1	LIQUID		3.313627				ug/L			BJT
7	SAMPLE	S10V000324		0 0			Unknown-2	LIQUID		3.3782959				ug/L			JT
Sample Sequence 8																	
8	SAMPLE	S10V000325		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
8	SAMPLE	S10V000325		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019485

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
8	SAMPLE	S10V000325		0 0			1,1,2,2-Tetrachloroethane	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
8	SAMPLE	S10V000325		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
8	SAMPLE	S10V000325		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
8	SAMPLE	S10V000325		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			Ub
8	SAMPLE	S10V000325		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
8	SAMPLE	S10V000325		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			Ua
8	SAMPLE	S10V000325		0 0			Benzene	LIQUID	N/A	5.0370E-02			0.018111	ug/L			BJ
8	SAMPLE	S10V000325		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
8	SAMPLE	S10V000325		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
8	SAMPLE	S10V000325		0 0			Chloroform	LIQUID	N/A	6.0380E-01			0.046	ug/L			
8	SAMPLE	S10V000325		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
8	SAMPLE	S10V000325		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
8	SAMPLE	S10V000325		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
8	SAMPLE	S10V000325		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
8	SAMPLE	S10V000325		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
8	SAMPLE	S10V000325		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
8	SAMPLE	S10V000325		0 0			Toluene	LIQUID	N/A	1.2200E-01			0.058	ug/L			BJ
8	SAMPLE	S10V000325		0 0			trans-1,3-Dichloropropene	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
8	SAMPLE	S10V000325		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
8	SAMPLE	S10V000325		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
8	SAMPLE	S10V000325		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
8	SAMPLE	S10V000325		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
8	SAMPLE	S10V000325		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
8	SAMPLE	S10V000325		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
8	SAMPLE	S10V000325		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
8	SAMPLE	S10V000325		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
8	SAMPLE	S10V000325		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
8	SAMPLE	S10V000325		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
8	SAMPLE	S10V000325		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
8	SAMPLE	S10V000325		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.1483E+01			0.090555	ug/L	103.35	% Recovery	
8	SAMPLE	S10V000325		0 0			Dibromofluoromethane	LIQUID	11.11111	1.1520E+01			0.059222	ug/L	103.68	% Recovery	
8	SAMPLE	S10V000325		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.1813E+01			0.16567	ug/L	106.32	% Recovery	
8	SAMPLE	S10V000325		0 0			Toluene-d8	LIQUID	11.11111	1.2677E+01			0.077422	ug/L	114.09	% Recovery	
8	SAMPLE	S10V000325		0 0			Unknown-1	LIQUID		4.651229				ug/L			BJT
8	SAMPLE	S10V000325		0 0			Unknown-2	LIQUID		2.7977833				ug/L			JT
Sample Sequence 9																	
9	SAMPLE	S10V000326		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
9	SAMPLE	S10V000326		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
9	SAMPLE	S10V000326		0 0			1,1,2,2-Tetrachloroethane	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019485

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
9	SAMPLE	S10V000326		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
9	SAMPLE	S10V000326		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
9	SAMPLE	S10V000326		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			Ub
9	SAMPLE	S10V000326		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
9	SAMPLE	S10V000326		0 0			Acetone	LIQUID	N/A	2.1010E+00			0.63689	ug/L			BJa
9	SAMPLE	S10V000326		0 0			Benzene	LIQUID	N/A	3.2580E-02			0.018111	ug/L			BJ
9	SAMPLE	S10V000326		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
9	SAMPLE	S10V000326		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
9	SAMPLE	S10V000326		0 0			Chloroform	LIQUID	N/A	1.1100E+00			0.046	ug/L			
9	SAMPLE	S10V000326		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
9	SAMPLE	S10V000326		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
9	SAMPLE	S10V000326		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
9	SAMPLE	S10V000326		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
9	SAMPLE	S10V000326		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
9	SAMPLE	S10V000326		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
9	SAMPLE	S10V000326		0 0			Toluene	LIQUID	N/A	2.2810E-01			0.058	ug/L			BJ
9	SAMPLE	S10V000326		0 0			trans-1,3-Dichloropropene	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
9	SAMPLE	S10V000326		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
9	SAMPLE	S10V000326		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
9	SAMPLE	S10V000326		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
9	SAMPLE	S10V000326		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
9	SAMPLE	S10V000326		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
9	SAMPLE	S10V000326		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
9	SAMPLE	S10V000326		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
9	SAMPLE	S10V000326		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
9	SAMPLE	S10V000326		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
9	SAMPLE	S10V000326		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
9	SAMPLE	S10V000326		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
9	SAMPLE	S10V000326		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.1132E+01			0.090555	ug/L	100.19	% Recovery	
9	SAMPLE	S10V000326		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0984E+01			0.059222	ug/L	98.856	% Recovery	
9	SAMPLE	S10V000326		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0787E+01			0.16567	ug/L	97.083	% Recovery	
9	SAMPLE	S10V000326		0 0			Toluene-d8	LIQUID	11.11111	1.1987E+01			0.077422	ug/L	107.88	% Recovery	
9	SAMPLE	S10V000326		0 0			Unknown-1	LIQUID		11.936031				ug/L			BJT
9	SAMPLE	S10V000326		0 0			Unknown-2	LIQUID		8.1392682				ug/L			JT

Comments Section:

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019485

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019485

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019485

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005190010	BLNK				
2	S1005190011	LCS				
3	S10V000315	SAMPLE		20100160	B23MR5	C Farm WMC 2010-1
4	S1005190013	MS	S10V000315			
5	S1005190014	MSD	S10V000315			
6	S10V000316	SAMPLE		20100160	B23MR6	C Farm WMC 2010-1
7	S10V000324	SAMPLE		20100160	B23MP4	C Farm WMC 2010-1
8	S10V000325	SAMPLE		20100160	B23MP5	C Farm WMC 2010-1
9	S10V000326	SAMPLE		20100160	B23MP6	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019680

Analyst: Murphy, Teresa

Book#:

Instrument: GCMSD3 (OHURA) for VOA

Method: VOA 222S #2, LA-523-118 Rev/Mod G-0-A

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: C Farm WMC 2010-1, VOA, Liquid, Group 20100160 & 20100062

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1005270005		0 0			1,1,1-Trichloroethane	LIQUID		<4.3299E-02			0.043299	ug/L			U
1	BLNK	S1005270005		0 0			1,1,2-Trichloroethane	LIQUID		<2.3000E-02			0.023	ug/L			U
1	BLNK	S1005270005		0 0			1,1,2,2-Tetrachloroethane	LIQUID		<2.0299E-02			0.020299	ug/L			U
1	BLNK	S1005270005		0 0			1,1-Dichloroethene	LIQUID		<1.7180E-01			0.1718	ug/L			U
1	BLNK	S1005270005		0 0			1,2-Dichloroethane	LIQUID		<2.4300E-02			0.0243	ug/L			U
1	BLNK	S1005270005		0 0			1-Butanol	LIQUID		<1.1489E+00			1.1489	ug/L			U
1	BLNK	S1005270005		0 0			4-Methyl-2-pentanone	LIQUID		<4.5290E-01			0.4529	ug/L			U
1	BLNK	S1005270005		0 0			Acetone	LIQUID		3.0506E+01			0.5732	ug/L			J
1	BLNK	S1005270005		0 0			Benzene	LIQUID		<1.6300E-02			0.0163	ug/L			U
1	BLNK	S1005270005		0 0			Carbon Disulfide	LIQUID		<2.1099E-02			0.021099	ug/L			U
1	BLNK	S1005270005		0 0			Carbon Tetrachloride	LIQUID		<4.7900E-02			0.0479	ug/L			U
1	BLNK	S1005270005		0 0			Chloroform	LIQUID		<4.1400E-02			0.0414	ug/L			U
1	BLNK	S1005270005		0 0			Chlorobenzene	LIQUID		<3.1999E-02			0.031999	ug/L			U
1	BLNK	S1005270005		0 0			Ethylbenzene	LIQUID		<3.3399E-02			0.033399	ug/L			U
1	BLNK	S1005270005		0 0			Xylenes (total)	LIQUID		<9.3999E-02			0.093999	ug/L			U
1	BLNK	S1005270005		0 0			2-Butanone	LIQUID		1.6560E+00			0.4582	ug/L			J
1	BLNK	S1005270005		0 0			Methylene Chloride	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1005270005		0 0			Tetrachloroethene	LIQUID		<5.8300E-02			0.0583	ug/L			U
1	BLNK	S1005270005		0 0			Toluene	LIQUID		<5.2200E-02			0.0522	ug/L			U
1	BLNK	S1005270005		0 0			trans-1,3-Dichloropropene	LIQUID		<5.9100E-02			0.0591	ug/L			U
1	BLNK	S1005270005		0 0			Trichloroethene	LIQUID		<3.7799E-02			0.037799	ug/L			U
1	BLNK	S1005270005		0 0			Vinyl Chloride	LIQUID		<4.8600E-02			0.0486	ug/L			U
1	BLNK	S1005270005		0 0			cis-Dichloroethylene	LIQUID		<5.8200E-02			0.0582	ug/L			U
1	BLNK	S1005270005		0 0			trans-Dichloroethylene	LIQUID		<7.5199E-02			0.075199	ug/L			U
1	BLNK	S1005270005		0 0			112Trichloro-122Trifluoroethan	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1005270005		0 0			2-Nitropropane	LIQUID		<2.6510E-01			0.2651	ug/L			U
1	BLNK	S1005270005		0 0			Ethyl acetate	LIQUID		<1.8340E-01			0.1834	ug/L			U
1	BLNK	S1005270005		0 0			Diethyl ether	LIQUID		<4.2300E-02			0.0423	ug/L			U
1	BLNK	S1005270005		0 0			Trichlorofluoromethane	LIQUID		<4.5800E-02			0.0458	ug/L			U

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LABCORE Completed Batch Report for Batch# 00019680

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1005270005		0 0			o-Xylene	LIQUID		<3.2499E-02			0.032499	ug/L			U
1	BLNK	S1005270005		0 0			m,p-Xylene	LIQUID		<7.0300E-02			0.0703	ug/L			U
1	BLNK	S1005270005		0 0			2-Hexanone	LIQUID		<4.5430E-01			0.4543	ug/L			U
1	BLNK	S1005270005		0 0			Unknown-1	LIQUID		0.6504202				ug/L			JT
1	BLNK	S1005270005		0 0			Unknown-2	LIQUID		0.3246283				ug/L			JT
1	BLNK	S1005270005		0 0			Unknown-3	LIQUID		0.4892315				ug/L			JT
1	BLNK	S1005270005		0 0			Unknown-4	LIQUID		2.3441532				ug/L			JT
Sample Sequence 2																	
2	LCS	S1005270006		0 0			1,1-Dichloroethene	LIQUID	10	1.0135E+01			0.1718	ug/L	101.35	% Recovery	
2	LCS	S1005270006		0 0			1-Butanol	LIQUID	100	8.1747E+01			1.1489	ug/L	81.747	% Recovery	
2	LCS	S1005270006		0 0			4-Methyl-2-pentanone	LIQUID	50	6.1369E+01			0.4529	ug/L	122.74	% Recovery	
2	LCS	S1005270006		0 0			Acetone	LIQUID	50	8.5948E+01			0.5732	ug/L	171.9	% Recovery	
2	LCS	S1005270006		0 0			Benzene	LIQUID	10	9.5090E+00			0.0163	ug/L	95.09	% Recovery	
2	LCS	S1005270006		0 0			Chlorobenzene	LIQUID	10	1.0213E+01			0.031999	ug/L	102.13	% Recovery	
2	LCS	S1005270006		0 0			2-Butanone	LIQUID	50	4.8570E+01			0.4582	ug/L	97.14	% Recovery	
2	LCS	S1005270006		0 0			Toluene	LIQUID	10	1.0356E+01			0.0522	ug/L	103.56	% Recovery	
2	LCS	S1005270006		0 0			Trichloroethene	LIQUID	10	9.0600E+00			0.037799	ug/L	90.6	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000095		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
3	SAMPLE	S10V000095		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
3	SAMPLE	S10V000095		0 0			1,1,2,2-Tetrachloroethane	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
3	SAMPLE	S10V000095		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
3	SAMPLE	S10V000095		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
3	SAMPLE	S10V000095		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
3	SAMPLE	S10V000095		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
3	SAMPLE	S10V000095		0 0			Acetone	LIQUID	N/A	2.2490E+00			0.63689	ug/L			BJa
3	SAMPLE	S10V000095		0 0			Benzene	LIQUID	N/A	<1.8111E-02			0.018111	ug/L			U
3	SAMPLE	S10V000095		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
3	SAMPLE	S10V000095		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
3	SAMPLE	S10V000095		0 0			Chloroform	LIQUID	N/A	1.0140E+00			0.046	ug/L			
3	SAMPLE	S10V000095		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
3	SAMPLE	S10V000095		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
3	SAMPLE	S10V000095		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
3	SAMPLE	S10V000095		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
3	SAMPLE	S10V000095		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
3	SAMPLE	S10V000095		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
3	SAMPLE	S10V000095		0 0			Toluene	LIQUID	N/A	1.1210E-01			0.058	ug/L			J
3	SAMPLE	S10V000095		0 0			trans-1,3-Dichloropropene	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
3	SAMPLE	S10V000095		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
3	SAMPLE	S10V000095		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
3	SAMPLE	S10V000095		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U

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LABCORE Completed Batch Report for Batch# 00019680

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000095		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
3	SAMPLE	S10V000095		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
3	SAMPLE	S10V000095		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
3	SAMPLE	S10V000095		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
3	SAMPLE	S10V000095		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
3	SAMPLE	S10V000095		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
3	SAMPLE	S10V000095		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
3	SAMPLE	S10V000095		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
3	SAMPLE	S10V000095		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.0534E+01			0.090555	ug/L	94.806	% Recovery	
3	SAMPLE	S10V000095		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0598E+01			0.059222	ug/L	95.382	% Recovery	
3	SAMPLE	S10V000095		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0940E+01			0.16567	ug/L	98.46	% Recovery	
3	SAMPLE	S10V000095		0 0			Toluene-d8	LIQUID	11.11111	1.1247E+01			0.077422	ug/L	101.22	% Recovery	
Sample Sequence 4																	
4	MS	S1005270008	S10V000105	0 0			1,1-Dichloroethene	LIQUID	11.11111	1.0716E+01			0.19089	ug/L	96.444	% Recovery	
4	MS	S1005270008	S10V000105	0 0			1-Butanol	LIQUID	111.1111	9.3428E+01			1.2766	ug/L	84.085	% Recovery	
4	MS	S1005270008	S10V000105	0 0			4-Methyl-2-pentanone	LIQUID	55.55555	6.5784E+01			0.50322	ug/L	118.41	% Recovery	
4	MS	S1005270008	S10V000105	0 0			Acetone	LIQUID	55.55555	6.2977E+01			0.63689	ug/L	107.42	% Recovery	
4	MS	S1005270008	S10V000105	0 0			Benzene	LIQUID	11.11111	1.0697E+01			0.018111	ug/L	96.273	% Recovery	
4	MS	S1005270008	S10V000105	0 0			Chlorobenzene	LIQUID	11.11111	1.0808E+01			0.035555	ug/L	97.272	% Recovery	
4	MS	S1005270008	S10V000105	0 0			2-Butanone	LIQUID	55.55555	5.6092E+01			0.50911	ug/L	100.97	% Recovery	
4	MS	S1005270008	S10V000105	0 0			Toluene	LIQUID	11.11111	1.1438E+01			0.058	ug/L	101.53	% Recovery	
4	MS	S1005270008	S10V000105	0 0			Trichloroethene	LIQUID	11.11111	1.0131E+01			0.041999	ug/L	91.179	% Recovery	
Sample Sequence 5																	
5	MSD	S1005270009	S10V000105	0 0			1,1-Dichloroethene	LIQUID	11.11111	1.0645E+01			0.19089	ug/L	95.805	% Recovery	
															0.66476	% RPD	
5	MSD	S1005270009	S10V000105	0 0			1-Butanol	LIQUID	111.1111	1.1351E+02			1.2766	ug/L	102.16	% Recovery	
															19.410	% RPD	
5	MSD	S1005270009	S10V000105	0 0			4-Methyl-2-pentanone	LIQUID	55.55555	7.5565E+01			0.50322	ug/L	136.02	% Recovery	
															13.843	% RPD	
5	MSD	S1005270009	S10V000105	0 0			Acetone	LIQUID	55.55555	7.4605E+01			0.63689	ug/L	128.35	% Recovery	
															17.755	% RPD	
5	MSD	S1005270009	S10V000105	0 0			Benzene	LIQUID	11.11111	1.0643E+01			0.018111	ug/L	95.787	% Recovery	
															0.50609	% RPD	
5	MSD	S1005270009	S10V000105	0 0			Chlorobenzene	LIQUID	11.11111	1.0780E+01			0.035555	ug/L	97.02	% Recovery	
															0.25940	% RPD	
5	MSD	S1005270009	S10V000105	0 0			2-Butanone	LIQUID	55.55555	6.2334E+01			0.50911	ug/L	112.2	% Recovery	
															10.536	% RPD	
5	MSD	S1005270009	S10V000105	0 0			Toluene	LIQUID	11.11111	1.1460E+01			0.058	ug/L	101.73	% Recovery	
															0.19679	% RPD	
5	MSD	S1005270009	S10V000105	0 0			Trichloroethene	LIQUID	11.11111	9.8480E+00			0.041999	ug/L	88.632	% Recovery	
															2.8330	% RPD	

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LABCORE Completed Batch Report for Batch# 00019680

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 6																	
6	SAMPLE	S10V000105		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
6	SAMPLE	S10V000105		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
6	SAMPLE	S10V000105		0 0			1,1,2,2-Tetrachloroetha ne	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
6	SAMPLE	S10V000105		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
6	SAMPLE	S10V000105		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
6	SAMPLE	S10V000105		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
6	SAMPLE	S10V000105		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
6	SAMPLE	S10V000105		0 0			Acetone	LIQUID	N/A	3.3010E+00			0.63689	ug/L			BJa
6	SAMPLE	S10V000105		0 0			Benzene	LIQUID	N/A	<1.8111E-02			0.018111	ug/L			U
6	SAMPLE	S10V000105		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
6	SAMPLE	S10V000105		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
6	SAMPLE	S10V000105		0 0			Chloroform	LIQUID	N/A	9.7310E-01			0.046	ug/L			
6	SAMPLE	S10V000105		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
6	SAMPLE	S10V000105		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
6	SAMPLE	S10V000105		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
6	SAMPLE	S10V000105		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
6	SAMPLE	S10V000105		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
6	SAMPLE	S10V000105		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
6	SAMPLE	S10V000105		0 0			Toluene	LIQUID	N/A	1.5670E-01			0.058	ug/L			J
6	SAMPLE	S10V000105		0 0			trans-1,3-Dichloroprope ne	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
6	SAMPLE	S10V000105		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
6	SAMPLE	S10V000105		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
6	SAMPLE	S10V000105		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
6	SAMPLE	S10V000105		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
6	SAMPLE	S10V000105		0 0			112Trichloro-122Triflu oroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
6	SAMPLE	S10V000105		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
6	SAMPLE	S10V000105		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
6	SAMPLE	S10V000105		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
6	SAMPLE	S10V000105		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
6	SAMPLE	S10V000105		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
6	SAMPLE	S10V000105		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
6	SAMPLE	S10V000105		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.1275E+01			0.090555	ug/L	101.48	% Recovery	
6	SAMPLE	S10V000105		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0839E+01			0.059222	ug/L	97.551	% Recovery	
6	SAMPLE	S10V000105		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0892E+01			0.16567	ug/L	98.028	% Recovery	
6	SAMPLE	S10V000105		0 0			Toluene-d8	LIQUID	11.11111	1.2509E+01			0.077422	ug/L	112.58	% Recovery	
Sample Sequence 7																	
7	SAMPLE	S10V000106		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
7	SAMPLE	S10V000106		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019680

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	SAMPLE	S10V000106		0 0			1,1,2,2-Tetrachloroethane	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
7	SAMPLE	S10V000106		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
7	SAMPLE	S10V000106		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
7	SAMPLE	S10V000106		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
7	SAMPLE	S10V000106		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
7	SAMPLE	S10V000106		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			Ua
7	SAMPLE	S10V000106		0 0			Benzene	LIQUID	N/A	<1.8111E-02			0.018111	ug/L			U
7	SAMPLE	S10V000106		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
7	SAMPLE	S10V000106		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
7	SAMPLE	S10V000106		0 0			Chloroform	LIQUID	N/A	8.5870E-01			0.046	ug/L			
7	SAMPLE	S10V000106		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
7	SAMPLE	S10V000106		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
7	SAMPLE	S10V000106		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
7	SAMPLE	S10V000106		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
7	SAMPLE	S10V000106		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
7	SAMPLE	S10V000106		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
7	SAMPLE	S10V000106		0 0			Toluene	LIQUID	N/A	1.1230E-01			0.058	ug/L			J
7	SAMPLE	S10V000106		0 0			trans-1,3-Dichloropropene	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
7	SAMPLE	S10V000106		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
7	SAMPLE	S10V000106		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
7	SAMPLE	S10V000106		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
7	SAMPLE	S10V000106		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
7	SAMPLE	S10V000106		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
7	SAMPLE	S10V000106		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
7	SAMPLE	S10V000106		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
7	SAMPLE	S10V000106		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
7	SAMPLE	S10V000106		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
7	SAMPLE	S10V000106		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
7	SAMPLE	S10V000106		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
7	SAMPLE	S10V000106		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.1203E+01			0.090555	ug/L	100.83	% Recovery	
7	SAMPLE	S10V000106		0 0			Dibromofluoromethane	LIQUID	11.11111	1.1219E+01			0.059222	ug/L	100.97	% Recovery	
7	SAMPLE	S10V000106		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.1657E+01			0.16567	ug/L	104.91	% Recovery	
7	SAMPLE	S10V000106		0 0			Toluene-d8	LIQUID	11.11111	1.2076E+01			0.077422	ug/L	108.68	% Recovery	
Sample Sequence 8																	
8	SAMPLE	S10V000317		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
8	SAMPLE	S10V000317		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
8	SAMPLE	S10V000317		0 0			1,1,2,2-Tetrachloroethane	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
8	SAMPLE	S10V000317		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
8	SAMPLE	S10V000317		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U

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LABCORE Completed Batch Report for Batch# 00019680

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
8	SAMPLE	S10V000317		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
8	SAMPLE	S10V000317		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
8	SAMPLE	S10V000317		0 0			Acetone	LIQUID	N/A	3.4530E+00			0.63689	ug/L			BJa
8	SAMPLE	S10V000317		0 0			Benzene	LIQUID	N/A	5.8540E-02			0.018111	ug/L			J
8	SAMPLE	S10V000317		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
8	SAMPLE	S10V000317		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
8	SAMPLE	S10V000317		0 0			Chloroform	LIQUID	N/A	9.3820E-01			0.046	ug/L			
8	SAMPLE	S10V000317		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
8	SAMPLE	S10V000317		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
8	SAMPLE	S10V000317		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
8	SAMPLE	S10V000317		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
8	SAMPLE	S10V000317		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
8	SAMPLE	S10V000317		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
8	SAMPLE	S10V000317		0 0			Toluene	LIQUID	N/A	1.0250E-01			0.058	ug/L			J
8	SAMPLE	S10V000317		0 0			trans-1,3-Dichloropropene	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
8	SAMPLE	S10V000317		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
8	SAMPLE	S10V000317		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
8	SAMPLE	S10V000317		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
8	SAMPLE	S10V000317		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
8	SAMPLE	S10V000317		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
8	SAMPLE	S10V000317		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
8	SAMPLE	S10V000317		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
8	SAMPLE	S10V000317		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
8	SAMPLE	S10V000317		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
8	SAMPLE	S10V000317		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
8	SAMPLE	S10V000317		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
8	SAMPLE	S10V000317		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.1106E+01			0.090555	ug/L	99.954	% Recovery	
8	SAMPLE	S10V000317		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0387E+01			0.059222	ug/L	93.483	% Recovery	
8	SAMPLE	S10V000317		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.0960E+01			0.16567	ug/L	98.64	% Recovery	
8	SAMPLE	S10V000317		0 0			Toluene-d8	LIQUID	11.11111	1.1712E+01			0.077422	ug/L	105.41	% Recovery	
8	SAMPLE	S10V000317		0 0			2-Hexanone	LIQUID	N/A	7.7560E-01			0.50478	ug/L			J
Sample Sequence 9																	
9	SAMPLE	S10V000327		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
9	SAMPLE	S10V000327		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
9	SAMPLE	S10V000327		0 0			1,1,2,2-Tetrachloroethane	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
9	SAMPLE	S10V000327		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
9	SAMPLE	S10V000327		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
9	SAMPLE	S10V000327		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
9	SAMPLE	S10V000327		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
9	SAMPLE	S10V000327		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			Ua

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LABCORE Completed Batch Report for Batch# 00019680

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
9	SAMPLE	S10V000327		0 0			Benzene	LIQUID	N/A	<1.8111E-02			0.018111	ug/L			U
9	SAMPLE	S10V000327		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
9	SAMPLE	S10V000327		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
9	SAMPLE	S10V000327		0 0			Chloroform	LIQUID	N/A	9.5910E-01			0.046	ug/L			
9	SAMPLE	S10V000327		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
9	SAMPLE	S10V000327		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
9	SAMPLE	S10V000327		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
9	SAMPLE	S10V000327		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
9	SAMPLE	S10V000327		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
9	SAMPLE	S10V000327		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
9	SAMPLE	S10V000327		0 0			Toluene	LIQUID	N/A	2.3360E-01			0.058	ug/L			J
9	SAMPLE	S10V000327		0 0			trans-1,3-Dichloropropene	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
9	SAMPLE	S10V000327		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
9	SAMPLE	S10V000327		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
9	SAMPLE	S10V000327		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
9	SAMPLE	S10V000327		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
9	SAMPLE	S10V000327		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
9	SAMPLE	S10V000327		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U
9	SAMPLE	S10V000327		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
9	SAMPLE	S10V000327		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
9	SAMPLE	S10V000327		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
9	SAMPLE	S10V000327		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
9	SAMPLE	S10V000327		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
9	SAMPLE	S10V000327		0 0			4-Bromofluorobenzene	LIQUID	11.11111	1.1197E+01			0.090555	ug/L	100.77	% Recovery	
9	SAMPLE	S10V000327		0 0			Dibromofluoromethane	LIQUID	11.11111	1.0893E+01			0.059222	ug/L	98.037	% Recovery	
9	SAMPLE	S10V000327		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	1.1061E+01			0.16567	ug/L	99.549	% Recovery	
9	SAMPLE	S10V000327		0 0			Toluene-d8	LIQUID	11.11111	1.1750E+01			0.077422	ug/L	105.75	% Recovery	

Comments Section:

Data Flagger Status:
Flagging Completed

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LABCORE Completed Batch Report for Batch# 00019680

Final Page for Batch# 00019680

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00019680

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005270005	BLNK				
2	S1005270006	LCS				
3	S10V000095	SAMPLE		20100062	B23V96	C Farm WMC 2010-1
4	S1005270008	MS	S10V000105			
5	S1005270009	MSD	S10V000105			
6	S10V000105	SAMPLE		20100062	B23VB6	C Farm WMC 2010-1
7	S10V000106	SAMPLE		20100062	B23VB7	C Farm WMC 2010-1
8	S10V000317	SAMPLE		20100160	B23MR7	C Farm WMC 2010-1
9	S10V000327	SAMPLE		20100160	B23MP7	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020256

Analyst: Getz, Andrew

Book#:

Instrument: GCMSD3 (OHURA) for VOA

Method: VOA 222S #2, LA-523-118 Rev/Mod G-0-A

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: C Farm WMC 2010-1, VOA, Liquid, Group 20100160

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1006230021		0 0			1,1,1-Trichloroethane	LIQUID		<4.3299E-02			0.043299	ug/L			U
1	BLNK	S1006230021		0 0			1,1,2-Trichloroethane	LIQUID		<2.3000E-02			0.023	ug/L			U
1	BLNK	S1006230021		0 0			1,1,2,2-Tetrachloroethane	LIQUID		<2.0299E-02			0.020299	ug/L			U
1	BLNK	S1006230021		0 0			1,1-Dichloroethene	LIQUID		<1.7180E-01			0.1718	ug/L			U
1	BLNK	S1006230021		0 0			1,2-Dichloroethane	LIQUID		<2.4300E-02			0.0243	ug/L			U
1	BLNK	S1006230021		0 0			1-Butanol	LIQUID		<1.1489E+00			1.1489	ug/L			U
1	BLNK	S1006230021		0 0			4-Methyl-2-pentanone	LIQUID		<4.5290E-01			0.4529	ug/L			U
1	BLNK	S1006230021		0 0			Acetone	LIQUID		1.1203E+01			0.5732	ug/L			
1	BLNK	S1006230021		0 0			Benzene	LIQUID		<1.6300E-02			0.0163	ug/L			U
1	BLNK	S1006230021		0 0			Carbon Disulfide	LIQUID		<2.1099E-02			0.021099	ug/L			U
1	BLNK	S1006230021		0 0			Carbon Tetrachloride	LIQUID		<4.7900E-02			0.0479	ug/L			U
1	BLNK	S1006230021		0 0			Chloroform	LIQUID		<4.1400E-02			0.0414	ug/L			U
1	BLNK	S1006230021		0 0			Chlorobenzene	LIQUID		<3.1999E-02			0.031999	ug/L			U
1	BLNK	S1006230021		0 0			Ethylbenzene	LIQUID		<3.3399E-02			0.033399	ug/L			U
1	BLNK	S1006230021		0 0			Xylenes (total)	LIQUID		<9.3999E-02			0.093999	ug/L			U
1	BLNK	S1006230021		0 0			2-Butanone	LIQUID		<4.5820E-01			0.4582	ug/L			U
1	BLNK	S1006230021		0 0			Methylene Chloride	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1006230021		0 0			Tetrachloroethene	LIQUID		<5.8300E-02			0.0583	ug/L			U
1	BLNK	S1006230021		0 0			Toluene	LIQUID		9.4330E-02			0.0522	ug/L			J
1	BLNK	S1006230021		0 0			trans-1,3-Dichloropropene	LIQUID		<5.9100E-02			0.0591	ug/L			U
1	BLNK	S1006230021		0 0			Trichloroethene	LIQUID		<3.7799E-02			0.037799	ug/L			U
1	BLNK	S1006230021		0 0			Vinyl Chloride	LIQUID		<4.8600E-02			0.0486	ug/L			U
1	BLNK	S1006230021		0 0			cis-Dichloroethylene	LIQUID		<5.8200E-02			0.0582	ug/L			U
1	BLNK	S1006230021		0 0			trans-Dichloroethylene	LIQUID		<7.5199E-02			0.075199	ug/L			U
1	BLNK	S1006230021		0 0			112Trichloro-122Trifluoroethan	LIQUID		<3.9599E-02			0.039599	ug/L			U
1	BLNK	S1006230021		0 0			2-Nitropropane	LIQUID		<2.6510E-01			0.2651	ug/L			U
1	BLNK	S1006230021		0 0			Ethyl acetate	LIQUID		<1.8340E-01			0.1834	ug/L			U
1	BLNK	S1006230021		0 0			Diethyl ether	LIQUID		<4.2300E-02			0.0423	ug/L			U
1	BLNK	S1006230021		0 0			Trichlorofluoromethane	LIQUID		<4.5800E-02			0.0458	ug/L			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020256

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1006230021		0 0			o-Xylene	LIQUID		<3.2499E-02			0.032499	ug/L			U
1	BLNK	S1006230021		0 0			m,p-Xylene	LIQUID		<7.0300E-02			0.0703	ug/L			U
1	BLNK	S1006230021		0 0			Unknown-1	LIQUID		1.8399337				ug/L			JT
Sample Sequence 2																	
2	LCS	S1006230022		0 0			1,1-Dichloroethene	LIQUID	10	9.5560E+00			0.1718	ug/L	95.56	% Recovery	
2	LCS	S1006230022		0 0			1-Butanol	LIQUID	100	7.7150E+01			1.1489	ug/L	77.15	% Recovery	
2	LCS	S1006230022		0 0			4-Methyl-2-pentanone	LIQUID	50	4.9172E+01			0.4529	ug/L	98.344	% Recovery	
2	LCS	S1006230022		0 0			Acetone	LIQUID	50	4.1166E+01			0.5732	ug/L	82.332	% Recovery	
2	LCS	S1006230022		0 0			Benzene	LIQUID	10	8.7500E+00			0.0163	ug/L	87.5	% Recovery	
2	LCS	S1006230022		0 0			Chlorobenzene	LIQUID	10	9.2820E+00			0.031999	ug/L	92.82	% Recovery	
2	LCS	S1006230022		0 0			2-Butanone	LIQUID	50	4.1613E+01			0.4582	ug/L	83.226	% Recovery	
2	LCS	S1006230022		0 0			Toluene	LIQUID	10	9.5380E+00			0.0522	ug/L	95.38	% Recovery	
2	LCS	S1006230022		0 0			Trichloroethene	LIQUID	10	8.5650E+00			0.037799	ug/L	85.65	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000313		0 0			1,1,1-Trichloroethane	LIQUID	N/A	<4.8111E-02			0.048111	ug/L			U
3	SAMPLE	S10V000313		0 0			1,1,2-Trichloroethane	LIQUID	N/A	<2.5555E-02			0.025555	ug/L			U
3	SAMPLE	S10V000313		0 0			1,1,2,2-Tetrachloroetha ne	LIQUID	N/A	<2.2555E-02			0.022555	ug/L			U
3	SAMPLE	S10V000313		0 0			1,1-Dichloroethene	LIQUID	N/A	<1.9089E-01			0.19089	ug/L			U
3	SAMPLE	S10V000313		0 0			1,2-Dichloroethane	LIQUID	N/A	<2.7000E-02			0.027	ug/L			U
3	SAMPLE	S10V000313		0 0			1-Butanol	LIQUID	N/A	<1.2766E+00			1.2766	ug/L			U
3	SAMPLE	S10V000313		0 0			4-Methyl-2-pentanone	LIQUID	N/A	<5.0322E-01			0.50322	ug/L			U
3	SAMPLE	S10V000313		0 0			Acetone	LIQUID	N/A	<6.3689E-01			0.63689	ug/L			U
3	SAMPLE	S10V000313		0 0			Benzene	LIQUID	N/A	4.5810E-02			0.018111	ug/L			J
3	SAMPLE	S10V000313		0 0			Carbon Disulfide	LIQUID	N/A	<2.3444E-02			0.023444	ug/L			U
3	SAMPLE	S10V000313		0 0			Carbon Tetrachloride	LIQUID	N/A	<5.3222E-02			0.053222	ug/L			U
3	SAMPLE	S10V000313		0 0			Chloroform	LIQUID	N/A	5.3610E-01			0.046	ug/L			
3	SAMPLE	S10V000313		0 0			Chlorobenzene	LIQUID	N/A	<3.5555E-02			0.035555	ug/L			U
3	SAMPLE	S10V000313		0 0			Ethylbenzene	LIQUID	N/A	<3.7111E-02			0.037111	ug/L			U
3	SAMPLE	S10V000313		0 0			Xylenes (total)	LIQUID	N/A	<1.0444E-01			0.10444	ug/L			U
3	SAMPLE	S10V000313		0 0			2-Butanone	LIQUID	N/A	<5.0911E-01			0.50911	ug/L			U
3	SAMPLE	S10V000313		0 0			Methylene Chloride	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
3	SAMPLE	S10V000313		0 0			Tetrachloroethene	LIQUID	N/A	<6.4777E-02			0.064777	ug/L			U
3	SAMPLE	S10V000313		0 0			Toluene	LIQUID	N/A	1.1390E-01			0.058	ug/L			BJ
3	SAMPLE	S10V000313		0 0			trans-1,3-Dichloroprope ne	LIQUID	N/A	<6.5666E-02			0.065666	ug/L			U
3	SAMPLE	S10V000313		0 0			Trichloroethene	LIQUID	N/A	<4.1999E-02			0.041999	ug/L			U
3	SAMPLE	S10V000313		0 0			Vinyl Chloride	LIQUID	N/A	<5.4000E-02			0.054	ug/L			U
3	SAMPLE	S10V000313		0 0			cis-Dichloroethylene	LIQUID	N/A	<6.4666E-02			0.064666	ug/L			U
3	SAMPLE	S10V000313		0 0			trans-Dichloroethylene	LIQUID	N/A	<8.3555E-02			0.083555	ug/L			U
3	SAMPLE	S10V000313		0 0			112Trichloro-122Trifluoroethan	LIQUID	N/A	<4.3999E-02			0.043999	ug/L			U
3	SAMPLE	S10V000313		0 0			2-Nitropropane	LIQUID	N/A	<2.9456E-01			0.29456	ug/L			U

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LABCORE Completed Batch Report for Batch# 00020256

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000313		0 0			Ethyl acetate	LIQUID	N/A	<2.0378E-01			0.20378	ug/L			U
3	SAMPLE	S10V000313		0 0			Diethyl ether	LIQUID	N/A	<4.7000E-02			0.047	ug/L			U
3	SAMPLE	S10V000313		0 0			Trichlorofluoromethane	LIQUID	N/A	<5.0888E-02			0.050888	ug/L			U
3	SAMPLE	S10V000313		0 0			o-Xylene	LIQUID	N/A	<3.6111E-02			0.036111	ug/L			U
3	SAMPLE	S10V000313		0 0			m,p-Xylene	LIQUID	N/A	<7.8111E-02			0.078111	ug/L			U
3	SAMPLE	S10V000313		0 0			4-Bromofluorobenzene	LIQUID	11.11111	9.6310E+00			0.090555	ug/L	86.679	% Recovery	
3	SAMPLE	S10V000313		0 0			Dibromofluoromethane	LIQUID	11.11111	9.4830E+00			0.059222	ug/L	85.347	% Recovery	
3	SAMPLE	S10V000313		0 0			1,2-Dichloroethane-d4	LIQUID	11.11111	9.4500E+00			0.16567	ug/L	85.05	% Recovery	
3	SAMPLE	S10V000313		0 0			Toluene-d8	LIQUID	11.11111	1.0984E+01			0.077422	ug/L	98.856	% Recovery	
3	SAMPLE	S10V000313		0 0			Unknown-1	LIQUID		7.3830785				ug/L			JT
3	SAMPLE	S10V000313		0 0			Unknown-2	LIQUID		4.3772924				ug/L			JT
Sample Sequence 4																	
4	MS	S1006230024	S10V000313	0 0			1,1-Dichloroethene	LIQUID	11.11111	9.7980E+00			0.19089	ug/L	88.182	% Recovery	
4	MS	S1006230024	S10V000313	0 0			1-Butanol	LIQUID	111.1111	9.5332E+01			1.2766	ug/L	85.799	% Recovery	
4	MS	S1006230024	S10V000313	0 0			4-Methyl-2-pentanone	LIQUID	55.55555	5.7014E+01			0.50322	ug/L	102.63	% Recovery	
4	MS	S1006230024	S10V000313	0 0			Acetone	LIQUID	55.55555	5.0225E+01			0.63689	ug/L	90.405	% Recovery	
4	MS	S1006230024	S10V000313	0 0			Benzene	LIQUID	11.11111	9.7300E+00			0.018111	ug/L	87.158	% Recovery	
4	MS	S1006230024	S10V000313	0 0			Chlorobenzene	LIQUID	11.11111	9.9410E+00			0.035555	ug/L	89.469	% Recovery	
4	MS	S1006230024	S10V000313	0 0			2-Butanone	LIQUID	55.55555	4.8618E+01			0.50911	ug/L	87.512	% Recovery	
4	MS	S1006230024	S10V000313	0 0			Toluene	LIQUID	11.11111	1.0460E+01			0.058	ug/L	93.115	% Recovery	
4	MS	S1006230024	S10V000313	0 0			Trichloroethene	LIQUID	11.11111	8.9900E+00			0.041999	ug/L	80.91	% Recovery	
Sample Sequence 5																	
5	MSD	S1006230025	S10V000313	0 0			1,1-Dichloroethene	LIQUID	11.11111	1.0664E+01			0.19089	ug/L	95.976	% Recovery	
															8.4645	% RPD	
5	MSD	S1006230025	S10V000313	0 0			1-Butanol	LIQUID	111.1111	1.1112E+02			1.2766	ug/L	100.01	% Recovery	
															15.296	% RPD	
5	MSD	S1006230025	S10V000313	0 0			4-Methyl-2-pentanone	LIQUID	55.55555	6.2838E+01			0.50322	ug/L	113.11	% Recovery	
															9.7154	% RPD	
5	MSD	S1006230025	S10V000313	0 0			Acetone	LIQUID	55.55555	5.3109E+01			0.63689	ug/L	95.596	% Recovery	
															5.5817	% RPD	
5	MSD	S1006230025	S10V000313	0 0			Benzene	LIQUID	11.11111	1.0311E+01			0.018111	ug/L	92.387	% Recovery	
															5.8247	% RPD	
5	MSD	S1006230025	S10V000313	0 0			Chlorobenzene	LIQUID	11.11111	1.0459E+01			0.035555	ug/L	94.131	% Recovery	
															5.0784	% RPD	
5	MSD	S1006230025	S10V000313	0 0			2-Butanone	LIQUID	55.55555	5.3310E+01			0.50911	ug/L	95.958	% Recovery	
															9.2070	% RPD	
5	MSD	S1006230025	S10V000313	0 0			Toluene	LIQUID	11.11111	1.0955E+01			0.058	ug/L	97.57	% Recovery	
															4.6726	% RPD	
5	MSD	S1006230025	S10V000313	0 0			Trichloroethene	LIQUID	11.11111	9.4460E+00			0.041999	ug/L	85.014	% Recovery	
															4.9468	% RPD	

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LABCORE Completed Batch Report for Batch# 00020256

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00020256

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00020256

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006230021	BLNK				
2	S1006230022	LCS				
3	S10V000313	SAMPLE		20100160	B23MR3	C Farm WMC 2010-1
4	S1006230024	MS	S10V000313			
5	S1006230025	MSD	S10V000313			

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LABCORE Completed Batch Report for Batch# 00018960

Analyst: Getz, Andrew

Book#:

Instrument: GCMSD3 (OHURA) for VOA

Method: VOA 222S #2, LA-523-118 Rev/Mod G-0-A

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: C Farm WMC 2010-1, VOA, Solid, Group 20100213

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1004200014		0 0			1,1,1-Trichloroethane	SOLID		<9.2000E-02			0.092	ug/Kg			U
1	BLNK	S1004200014		0 0			1,1,2-Trichloroethane	SOLID		<1.6580E-01			0.1658	ug/Kg			U
1	BLNK	S1004200014		0 0			1,1,2,2-Tetrachloroethane	SOLID		<2.1160E-01			0.2116	ug/Kg			U
1	BLNK	S1004200014		0 0			1,1-Dichloroethene	SOLID		<4.2320E-01			0.4232	ug/Kg			U
1	BLNK	S1004200014		0 0			1,2-Dichloroethane	SOLID		<5.3799E-02			0.053799	ug/Kg			U
1	BLNK	S1004200014		0 0			1-Butanol	SOLID		<1.0292E+01			10.292	ug/Kg			U
1	BLNK	S1004200014		0 0			4-Methyl-2-pentanone	SOLID		<1.7080E+00			1.708	ug/Kg			U
1	BLNK	S1004200014		0 0			Acetone	SOLID		<2.1996E+00			2.1996	ug/Kg			U
1	BLNK	S1004200014		0 0			Benzene	SOLID		<1.4740E-01			0.1474	ug/Kg			U
1	BLNK	S1004200014		0 0			Carbon Disulfide	SOLID		<1.6080E-01			0.1608	ug/Kg			U
1	BLNK	S1004200014		0 0			Carbon Tetrachloride	SOLID		<9.3400E-02			0.0934	ug/Kg			U
1	BLNK	S1004200014		0 0			Chloroform	SOLID		<1.3080E-01			0.1308	ug/Kg			U
1	BLNK	S1004200014		0 0			Chlorobenzene	SOLID		<8.6400E-02			0.0864	ug/Kg			U
1	BLNK	S1004200014		0 0			Ethylbenzene	SOLID		<1.0720E-01			0.1072	ug/Kg			U
1	BLNK	S1004200014		0 0			Xylenes (total)	SOLID		<2.0320E-01			0.2032	ug/Kg			U
1	BLNK	S1004200014		0 0			2-Butanone	SOLID		<1.9644E+00			1.9644	ug/Kg			U
1	BLNK	S1004200014		0 0			Methylene Chloride	SOLID		<6.3999E-02			0.063999	ug/Kg			U
1	BLNK	S1004200014		0 0			Tetrachloroethene	SOLID		<1.0980E-01			0.1098	ug/Kg			U
1	BLNK	S1004200014		0 0			Toluene	SOLID		2.8660E-01			0.080199	ug/Kg			J
1	BLNK	S1004200014		0 0			trans-1,3-Dichloropropene	SOLID		<2.7100E-01			0.271	ug/Kg			U
1	BLNK	S1004200014		0 0			Trichloroethene	SOLID		<1.2100E-01			0.121	ug/Kg			U
1	BLNK	S1004200014		0 0			Vinyl Chloride	SOLID		<1.7340E-01			0.1734	ug/Kg			U
1	BLNK	S1004200014		0 0			cis-Dichloroethylene	SOLID		<1.8160E-01			0.1816	ug/Kg			U
1	BLNK	S1004200014		0 0			trans-Dichloroethylene	SOLID		<3.0300E-01			0.303	ug/Kg			U
1	BLNK	S1004200014		0 0			112Trichloro-122Trifluoroethan	SOLID		<1.1620E-01			0.1162	ug/Kg			U
1	BLNK	S1004200014		0 0			2-Nitropropane	SOLID		<5.8800E-01			0.588	ug/Kg			U
1	BLNK	S1004200014		0 0			Ethyl acetate	SOLID		<5.8720E-01			0.5872	ug/Kg			U
1	BLNK	S1004200014		0 0			Diethyl ether	SOLID		<2.5620E-01			0.2562	ug/Kg			U
1	BLNK	S1004200014		0 0			Trichlorofluoromethane	SOLID		<9.3999E-02			0.093999	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00018960

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1004200014		0 0			o-Xylene	SOLID		<9.2000E-02			0.092	ug/Kg			U
1	BLNK	S1004200014		0 0			m,p-Xylene	SOLID		<1.6740E-01			0.1674	ug/Kg			U
1	BLNK	S1004200014		0 0			4-Bromofluorobenzene	SOLID	20	2.2673E+01			0.1328	ug/Kg	113.36	% Recovery	
1	BLNK	S1004200014		0 0			Dibromofluoromethane	SOLID	20	2.1853E+01			0.1808	ug/Kg	109.26	% Recovery	
1	BLNK	S1004200014		0 0			1,2-Dichloroethane-d4	SOLID	20	2.3971E+01			0.1916	ug/Kg	119.86	% Recovery	
1	BLNK	S1004200014		0 0			Toluene-d8	SOLID	20	2.4134E+01			0.1714	ug/Kg	120.67	% Recovery	
Sample Sequence 2																	
2	LCS	S1004200015		0 0			1,1-Dichloroethene	SOLID	20	2.3008E+01			0.4232	ug/Kg	115.04	% Recovery	
2	LCS	S1004200015		0 0			1-Butanol	SOLID	200	2.0390E+02			10.292	ug/Kg	101.95	% Recovery	
2	LCS	S1004200015		0 0			4-Methyl-2-pentanone	SOLID	100	1.2619E+02			1.708	ug/Kg	126.19	% Recovery	
2	LCS	S1004200015		0 0			Acetone	SOLID	100	1.0078E+02			2.1996	ug/Kg	100.78	% Recovery	
2	LCS	S1004200015		0 0			Benzene	SOLID	20	2.0583E+01			0.1474	ug/Kg	102.92	% Recovery	
2	LCS	S1004200015		0 0			Chlorobenzene	SOLID	20	2.1348E+01			0.0864	ug/Kg	106.74	% Recovery	
2	LCS	S1004200015		0 0			2-Butanone	SOLID	100	1.0838E+02			1.9644	ug/Kg	108.38	% Recovery	
2	LCS	S1004200015		0 0			Toluene	SOLID	20	2.1381E+01			0.080199	ug/Kg	106.9	% Recovery	
2	LCS	S1004200015		0 0			Trichloroethene	SOLID	20	1.9737E+01			0.121	ug/Kg	98.685	% Recovery	
2	LCS	S1004200015		0 0			4-Bromofluorobenzene	SOLID	20	2.2439E+01			0.1328	ug/Kg	112.2	% Recovery	
2	LCS	S1004200015		0 0			Dibromofluoromethane	SOLID	20	2.0971E+01			0.1808	ug/Kg	104.86	% Recovery	
2	LCS	S1004200015		0 0			1,2-Dichloroethane-d4	SOLID	20	2.3272E+01			0.1916	ug/Kg	116.36	% Recovery	
2	LCS	S1004200015		0 0			Toluene-d8	SOLID	20	2.3121E+01			0.1714	ug/Kg	115.6	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000368		0 0			1,1,1-Trichloroethane	SOLID	N/A	<7.5657E-02			0.075657	ug/Kg			U
3	SAMPLE	S10V000368		0 0			1,1,2-Trichloroethane	SOLID	N/A	<1.3635E-01			0.13635	ug/Kg			U
3	SAMPLE	S10V000368		0 0			1,1,2,2-Tetrachloroethane	SOLID	N/A	<1.7401E-01			0.17401	ug/Kg			U
3	SAMPLE	S10V000368		0 0			1,1-Dichloroethene	SOLID	N/A	<3.4803E-01			0.34803	ug/Kg			U
3	SAMPLE	S10V000368		0 0			1,2-Dichloroethane	SOLID	N/A	<4.4243E-02			0.044243	ug/Kg			U
3	SAMPLE	S10V000368		0 0			1-Butanol	SOLID	N/A	<8.4638E+00			8.4638	ug/Kg			U
3	SAMPLE	S10V000368		0 0			4-Methyl-2-pentanone	SOLID	N/A	<1.4046E+00			1.4046	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Acetone	SOLID	N/A	<1.8089E+00			1.8089	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Benzene	SOLID	N/A	<1.2122E-01			0.12122	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Carbon Disulfide	SOLID	N/A	<1.3224E-01			0.13224	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Carbon Tetrachloride	SOLID	N/A	<7.6809E-02			0.076809	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Chloroform	SOLID	N/A	<1.0756E-01			0.10756	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Chlorobenzene	SOLID	N/A	<7.1052E-02			0.071052	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Ethylbenzene	SOLID	N/A	<8.8157E-02			0.088157	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Xylenes (total)	SOLID	N/A	<1.6710E-01			0.1671	ug/Kg			U
3	SAMPLE	S10V000368		0 0			2-Butanone	SOLID	N/A	<1.6155E+00			1.6155	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Methylene Chloride	SOLID	N/A	<5.2631E-02			0.052631	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Tetrachloroethene	SOLID	N/A	<9.0296E-02			0.090296	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Toluene	SOLID	N/A	3.6010E-01			0.065953	ug/Kg			BJ
3	SAMPLE	S10V000368		0 0			trans-1,3-Dichloropropene	SOLID	N/A	<2.2286E-01			0.22286	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00018960

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000368		0 0			Trichloroethene	SOLID	N/A	<9.9506E-02			0.099506	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Vinyl Chloride	SOLID	N/A	<1.4260E-01			0.1426	ug/Kg			U
3	SAMPLE	S10V000368		0 0			cis-Dichloroethylene	SOLID	N/A	<1.4934E-01			0.14934	ug/Kg			U
3	SAMPLE	S10V000368		0 0			trans-Dichloroethylene	SOLID	N/A	<2.4918E-01			0.24918	ug/Kg			U
3	SAMPLE	S10V000368		0 0			112Trichloro-122Trifluoroethan	SOLID	N/A	<9.5559E-02			0.095559	ug/Kg			U
3	SAMPLE	S10V000368		0 0			2-Nitropropane	SOLID	N/A	<4.8355E-01			0.48355	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Ethyl acetate	SOLID	N/A	<4.8289E-01			0.48289	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Diethyl ether	SOLID	N/A	<2.1069E-01			0.21069	ug/Kg			U
3	SAMPLE	S10V000368		0 0			Trichlorofluoromethane	SOLID	N/A	<7.7302E-02			0.077302	ug/Kg			U
3	SAMPLE	S10V000368		0 0			o-Xylene	SOLID	N/A	<7.5657E-02			0.075657	ug/Kg			U
3	SAMPLE	S10V000368		0 0			m,p-Xylene	SOLID	N/A	<1.3766E-01			0.13766	ug/Kg			U
3	SAMPLE	S10V000368		0 0			4-Bromofluorobenzene	SOLID	16.44736	1.5899E+01			0.10921	ug/Kg	96.666	% Recovery	
3	SAMPLE	S10V000368		0 0			Dibromofluoromethane	SOLID	16.44736	1.5742E+01			0.14868	ug/Kg	95.711	% Recovery	
3	SAMPLE	S10V000368		0 0			1,2-Dichloroethane-d4	SOLID	16.44736	1.7841E+01			0.15756	ug/Kg	108.47	% Recovery	
3	SAMPLE	S10V000368		0 0			Toluene-d8	SOLID	16.44736	1.7028E+01			0.14095	ug/Kg	103.53	% Recovery	
Sample Sequence 4																	
4	MS	S1004200017	S10V000368	0 0			1,1-Dichloroethene	SOLID	17.73049	1.8150E+01			0.37518	ug/Kg	102.37	% Recovery	
4	MS	S1004200017	S10V000368	0 0			1-Butanol	SOLID	177.3049	1.9623E+02			9.1241	ug/Kg	110.67	% Recovery	
4	MS	S1004200017	S10V000368	0 0			4-Methyl-2-pentanone	SOLID	88.65248	1.2419E+02			1.5142	ug/Kg	140.09	% Recovery	
4	MS	S1004200017	S10V000368	0 0			Acetone	SOLID	88.65248	1.0832E+02			1.95	ug/Kg	122.18	% Recovery	
4	MS	S1004200017	S10V000368	0 0			Benzene	SOLID	17.73049	1.6755E+01			0.13067	ug/Kg	94.498	% Recovery	
4	MS	S1004200017	S10V000368	0 0			Chlorobenzene	SOLID	17.73049	1.7189E+01			0.076595	ug/Kg	96.946	% Recovery	
4	MS	S1004200017	S10V000368	0 0			2-Butanone	SOLID	88.65248	1.0808E+02			1.7415	ug/Kg	121.91	% Recovery	
4	MS	S1004200017	S10V000368	0 0			Toluene	SOLID	17.73049	1.7649E+01			0.071099	ug/Kg	97.509	% Recovery	
4	MS	S1004200017	S10V000368	0 0			Trichloroethene	SOLID	17.73049	1.5633E+01			0.10727	ug/Kg	88.17	% Recovery	
4	MS	S1004200017	S10V000368	0 0			4-Bromofluorobenzene	SOLID	17.73049	1.7109E+01			0.11773	ug/Kg	96.495	% Recovery	
4	MS	S1004200017	S10V000368	0 0			Dibromofluoromethane	SOLID	17.73049	1.7718E+01			0.16028	ug/Kg	99.93	% Recovery	
4	MS	S1004200017	S10V000368	0 0			1,2-Dichloroethane-d4	SOLID	17.73049	1.9456E+01			0.16986	ug/Kg	109.73	% Recovery	
4	MS	S1004200017	S10V000368	0 0			Toluene-d8	SOLID	17.73049	1.8804E+01			0.15195	ug/Kg	106.05	% Recovery	
Sample Sequence 5																	
5	MSD	S1004200018	S10V000368	0 0			1,1-Dichloroethene	SOLID	18.18181	1.9977E+01			0.38473	ug/Kg	109.87	% Recovery	
															7.0675	% RPD	
5	MSD	S1004200018	S10V000368	0 0			1-Butanol	SOLID	181.8181	1.8707E+02			9.3564	ug/Kg	102.89	% Recovery	
															7.2860	% RPD	
5	MSD	S1004200018	S10V000368	0 0			4-Methyl-2-pentanone	SOLID	90.90909	1.3276E+02			1.5527	ug/Kg	146.04	% Recovery	
															4.1589	% RPD	
5	MSD	S1004200018	S10V000368	0 0			Acetone	SOLID	90.90909	1.1900E+02			1.9996	ug/Kg	130.9	% Recovery	
															6.8911	% RPD	
5	MSD	S1004200018	S10V000368	0 0			Benzene	SOLID	18.18181	1.8008E+01			0.134	ug/Kg	99.044	% Recovery	
															4.6977	% RPD	
5	MSD	S1004200018	S10V000368	0 0			Chlorobenzene	SOLID	18.18181	1.8036E+01			0.078545	ug/Kg	99.198	% Recovery	

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LABCORE Completed Batch Report for Batch# 00018960

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
															2.2963	% RPD	
5	MSD	S1004200018	S10V000368	0 0			2-Butanone	SOLID	90.90909	1.1550E+02			1.7858	ug/Kg	127.05	% Recovery	
															4.1292	% RPD	
5	MSD	S1004200018	S10V000368	0 0			Toluene	SOLID	18.18181	1.8488E+01			0.072909	ug/Kg	99.703	% Recovery	
															2.2250	% RPD	
5	MSD	S1004200018	S10V000368	0 0			Trichloroethene	SOLID	18.18181	1.6884E+01			0.11	ug/Kg	92.862	% Recovery	
															5.1836	% RPD	
5	MSD	S1004200018	S10V000368	0 0			4-Bromofluorobenzene	SOLID	18.18181	1.8258E+01			0.12073	ug/Kg	100.42	% Recovery	
															3.9865	% RPD	
5	MSD	S1004200018	S10V000368	0 0			Dibromofluoromethane	SOLID	18.18181	1.9448E+01			0.16436	ug/Kg	106.96	% Recovery	
															6.7959	% RPD	
5	MSD	S1004200018	S10V000368	0 0			1,2-Dichloroethane-d4	SOLID	18.18181	2.1301E+01			0.17418	ug/Kg	117.16	% Recovery	
															6.5494	% RPD	
5	MSD	S1004200018	S10V000368	0 0			Toluene-d8	SOLID	18.18181	1.9631E+01			0.15582	ug/Kg	107.97	% Recovery	
															1.7942	% RPD	
Sample Sequence 6																	
6	SAMPLE	S10V000369		0 0			1,1,1-Trichloroethane	SOLID	N/A	<8.3182E-02			0.083182	ug/Kg			U
6	SAMPLE	S10V000369		0 0			1,1,2-Trichloroethane	SOLID	N/A	<1.4991E-01			0.14991	ug/Kg			U
6	SAMPLE	S10V000369		0 0			1,1,2,2-Tetrachloroethane	SOLID	N/A	<1.9132E-01			0.19132	ug/Kg			U
6	SAMPLE	S10V000369		0 0			1,1-Dichloroethene	SOLID	N/A	<3.8264E-01			0.38264	ug/Kg			U
6	SAMPLE	S10V000369		0 0			1,2-Dichloroethane	SOLID	N/A	<4.8643E-02			0.048643	ug/Kg			U
6	SAMPLE	S10V000369		0 0			1-Butanol	SOLID	N/A	2.2151E+01			9.3056	ug/Kg			J
6	SAMPLE	S10V000369		0 0			4-Methyl-2-pentanone	SOLID	N/A	<1.5443E+00			1.5443	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Acetone	SOLID	N/A	<1.9888E+00			1.9888	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Benzene	SOLID	N/A	<1.3327E-01			0.13327	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Carbon Disulfide	SOLID	N/A	<1.4539E-01			0.14539	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Carbon Tetrachloride	SOLID	N/A	<8.4448E-02			0.084448	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Chloroform	SOLID	N/A	<1.1826E-01			0.11826	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Chlorobenzene	SOLID	N/A	<7.8119E-02			0.078119	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Ethylbenzene	SOLID	N/A	<9.6925E-02			0.096925	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Xylenes (total)	SOLID	N/A	<1.8372E-01			0.18372	ug/Kg			U
6	SAMPLE	S10V000369		0 0			2-Butanone	SOLID	N/A	<1.7761E+00			1.7761	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Methylene Chloride	SOLID	N/A	<5.7866E-02			0.057866	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Tetrachloroethene	SOLID	N/A	<9.9276E-02			0.099276	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Toluene	SOLID	N/A	4.1640E-01			0.072513	ug/Kg			BJ
6	SAMPLE	S10V000369		0 0			trans-1,3-Dichloropropene	SOLID	N/A	<2.4503E-01			0.24503	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Trichloroethene	SOLID	N/A	<1.0940E-01			0.1094	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Vinyl Chloride	SOLID	N/A	<1.5678E-01			0.15678	ug/Kg			U
6	SAMPLE	S10V000369		0 0			cis-Dichloroethylene	SOLID	N/A	<1.6420E-01			0.1642	ug/Kg			U
6	SAMPLE	S10V000369		0 0			trans-Dichloroethylene	SOLID	N/A	<2.7396E-01			0.27396	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00018960

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
6	SAMPLE	S10V000369		0 0			112Trichloro-122Trifluoroethan	SOLID	N/A	<1.0506E-01			0.10506	ug/Kg			U
6	SAMPLE	S10V000369		0 0			2-Nitropropane	SOLID	N/A	<5.3164E-01			0.53164	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Ethyl acetate	SOLID	N/A	<5.3092E-01			0.53092	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Diethyl ether	SOLID	N/A	<2.3164E-01			0.23164	ug/Kg			U
6	SAMPLE	S10V000369		0 0			Trichlorofluoromethane	SOLID	N/A	<8.4990E-02			0.08499	ug/Kg			U
6	SAMPLE	S10V000369		0 0			o-Xylene	SOLID	N/A	<8.3182E-02			0.083182	ug/Kg			U
6	SAMPLE	S10V000369		0 0			m,p-Xylene	SOLID	N/A	<1.5136E-01			0.15136	ug/Kg			U
6	SAMPLE	S10V000369		0 0			4-Bromofluorobenzene	SOLID	18.08318	1.6941E+01			0.12007	ug/Kg	93.684	% Recovery	
6	SAMPLE	S10V000369		0 0			Dibromofluoromethane	SOLID	18.08318	1.7321E+01			0.16347	ug/Kg	95.785	% Recovery	
6	SAMPLE	S10V000369		0 0			1,2-Dichloroethane-d4	SOLID	18.08318	1.9150E+01			0.17324	ug/Kg	105.9	% Recovery	
6	SAMPLE	S10V000369		0 0			Toluene-d8	SOLID	18.08318	1.8834E+01			0.15497	ug/Kg	104.15	% Recovery	
Sample Sequence 7																	
7	SAMPLE	S10V000370		0 0			1,1,1-Trichloroethane	SOLID	N/A	<9.4069E-02			0.094069	ug/Kg			U
7	SAMPLE	S10V000370		0 0			1,1,2-Trichloroethane	SOLID	N/A	<1.6953E-01			0.16953	ug/Kg			U
7	SAMPLE	S10V000370		0 0			1,1,2,2-Tetrachloroethane	SOLID	N/A	<2.1636E-01			0.21636	ug/Kg			U
7	SAMPLE	S10V000370		0 0			1,1-Dichloroethene	SOLID	N/A	<4.3272E-01			0.43272	ug/Kg			U
7	SAMPLE	S10V000370		0 0			1,2-Dichloroethane	SOLID	N/A	<5.5010E-02			0.05501	ug/Kg			U
7	SAMPLE	S10V000370		0 0			1-Butanol	SOLID	N/A	<1.0524E+01			10.524	ug/Kg			U
7	SAMPLE	S10V000370		0 0			4-Methyl-2-pentanone	SOLID	N/A	<1.7464E+00			1.7464	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Acetone	SOLID	N/A	<2.2491E+00			2.2491	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Benzene	SOLID	N/A	<1.5072E-01			0.15072	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Carbon Disulfide	SOLID	N/A	<1.6442E-01			0.16442	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Carbon Tetrachloride	SOLID	N/A	<9.5501E-02			0.095501	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Chloroform	SOLID	N/A	<1.3374E-01			0.13374	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Chlorobenzene	SOLID	N/A	<8.8343E-02			0.088343	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Ethylbenzene	SOLID	N/A	<1.0961E-01			0.10961	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Xylenes (total)	SOLID	N/A	<2.0777E-01			0.20777	ug/Kg			U
7	SAMPLE	S10V000370		0 0			2-Butanone	SOLID	N/A	<2.0086E+00			2.0086	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Methylene Chloride	SOLID	N/A	<6.5439E-02			0.065439	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Tetrachloroethene	SOLID	N/A	<1.1227E-01			0.11227	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Toluene	SOLID	N/A	5.9790E-01			0.082004	ug/Kg			BJ
7	SAMPLE	S10V000370		0 0			trans-1,3-Dichloropropene	SOLID	N/A	<2.7710E-01			0.2771	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Trichloroethene	SOLID	N/A	<1.2372E-01			0.12372	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Vinyl Chloride	SOLID	N/A	<1.7730E-01			0.1773	ug/Kg			U
7	SAMPLE	S10V000370		0 0			cis-Dichloroethylene	SOLID	N/A	<1.8568E-01			0.18568	ug/Kg			U
7	SAMPLE	S10V000370		0 0			trans-Dichloroethylene	SOLID	N/A	<3.0982E-01			0.30982	ug/Kg			U
7	SAMPLE	S10V000370		0 0			112Trichloro-122Trifluoroethan	SOLID	N/A	<1.1881E-01			0.11881	ug/Kg			U
7	SAMPLE	S10V000370		0 0			2-Nitropropane	SOLID	N/A	<6.0123E-01			0.60123	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Ethyl acetate	SOLID	N/A	<6.0041E-01			0.60041	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00018960

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	SAMPLE	S10V000370		0 0			Diethyl ether	SOLID	N/A	<2.6196E-01			0.26196	ug/Kg			U
7	SAMPLE	S10V000370		0 0			Trichlorofluoromethane	SOLID	N/A	<9.6114E-02			0.096114	ug/Kg			U
7	SAMPLE	S10V000370		0 0			o-Xylene	SOLID	N/A	<9.4069E-02			0.094069	ug/Kg			U
7	SAMPLE	S10V000370		0 0			m,p-Xylene	SOLID	N/A	<1.7116E-01			0.17116	ug/Kg			U
7	SAMPLE	S10V000370		0 0			4-Bromofluorobenzene	SOLID	20.44989	1.9069E+01			0.13579	ug/Kg	93.247	% Recovery	
7	SAMPLE	S10V000370		0 0			Dibromofluoromethane	SOLID	20.44989	1.9805E+01			0.18487	ug/Kg	96.846	% Recovery	
7	SAMPLE	S10V000370		0 0			1,2-Dichloroethane-d4	SOLID	20.44989	2.2770E+01			0.19591	ug/Kg	111.35	% Recovery	
7	SAMPLE	S10V000370		0 0			Toluene-d8	SOLID	20.44989	2.1210E+01			0.17526	ug/Kg	103.72	% Recovery	

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00018960

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00018960

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004200014	BLNK				
2	S1004200015	LCS				
3	S10V000368	SAMPLE		20100213	B23KN6	C Farm WMC 2010-1
4	S1004200017	MS	S10V000368			
5	S1004200018	MSD	S10V000368			
6	S10V000369	SAMPLE		20100213	B23KN9	C Farm WMC 2010-1
7	S10V000370	SAMPLE		20100213	B23KN4	C Farm WMC 2010-1

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LABCORE Completed Batch Report for Batch# 00019123

Analyst: Getz, Andrew

Book#:

Instrument: GCMSD3 (OHURA) for VOA

Method: VOA 222S #2, LA-523-118 Rev/Mod G-0-A

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: C Farm WMC 2010-1, VOA, Solid, Group 20100213

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1004280107		0 0			1,1,1-Trichloroethane	SOLID		<9.2000E-02			0.092	ug/Kg			U
1	BLNK	S1004280107		0 0			1,1,2-Trichloroethane	SOLID		<1.6580E-01			0.1658	ug/Kg			U
1	BLNK	S1004280107		0 0			1,1,2,2-Tetrachloroethane	SOLID		<2.1160E-01			0.2116	ug/Kg			U
1	BLNK	S1004280107		0 0			1,1-Dichloroethene	SOLID		<4.2320E-01			0.4232	ug/Kg			U
1	BLNK	S1004280107		0 0			1,2-Dichloroethane	SOLID		<5.3799E-02			0.053799	ug/Kg			U
1	BLNK	S1004280107		0 0			1-Butanol	SOLID		<1.0292E+01			10.292	ug/Kg			U
1	BLNK	S1004280107		0 0			4-Methyl-2-pentanone	SOLID		<1.7080E+00			1.708	ug/Kg			U
1	BLNK	S1004280107		0 0			Acetone	SOLID		<2.1996E+00			2.1996	ug/Kg			U
1	BLNK	S1004280107		0 0			Benzene	SOLID		<1.4740E-01			0.1474	ug/Kg			U
1	BLNK	S1004280107		0 0			Carbon Disulfide	SOLID		<1.6080E-01			0.1608	ug/Kg			U
1	BLNK	S1004280107		0 0			Carbon Tetrachloride	SOLID		<9.3400E-02			0.0934	ug/Kg			U
1	BLNK	S1004280107		0 0			Chloroform	SOLID		<1.3080E-01			0.1308	ug/Kg			U
1	BLNK	S1004280107		0 0			Chlorobenzene	SOLID		<8.6400E-02			0.0864	ug/Kg			U
1	BLNK	S1004280107		0 0			Ethylbenzene	SOLID		<1.0720E-01			0.1072	ug/Kg			U
1	BLNK	S1004280107		0 0			Xylenes (total)	SOLID		<2.0320E-01			0.2032	ug/Kg			U
1	BLNK	S1004280107		0 0			2-Butanone	SOLID		<1.9644E+00			1.9644	ug/Kg			U
1	BLNK	S1004280107		0 0			Methylene Chloride	SOLID		<6.3999E-02			0.063999	ug/Kg			U
1	BLNK	S1004280107		0 0			Tetrachloroethene	SOLID		<1.0980E-01			0.1098	ug/Kg			U
1	BLNK	S1004280107		0 0			Toluene	SOLID		1.1520E-01			0.080199	ug/Kg			J
1	BLNK	S1004280107		0 0			trans-1,3-Dichloropropene	SOLID		<2.7100E-01			0.271	ug/Kg			U
1	BLNK	S1004280107		0 0			Trichloroethene	SOLID		<1.2100E-01			0.121	ug/Kg			U
1	BLNK	S1004280107		0 0			Vinyl Chloride	SOLID		<1.7340E-01			0.1734	ug/Kg			U
1	BLNK	S1004280107		0 0			cis-Dichloroethylene	SOLID		<1.8160E-01			0.1816	ug/Kg			U
1	BLNK	S1004280107		0 0			trans-Dichloroethylene	SOLID		<3.0300E-01			0.303	ug/Kg			U
1	BLNK	S1004280107		0 0			112Trichloro-122Trifluoroethan	SOLID		<1.1620E-01			0.1162	ug/Kg			U
1	BLNK	S1004280107		0 0			2-Nitropropane	SOLID		<5.8800E-01			0.588	ug/Kg			U
1	BLNK	S1004280107		0 0			Ethyl acetate	SOLID		<5.8720E-01			0.5872	ug/Kg			U
1	BLNK	S1004280107		0 0			Diethyl ether	SOLID		<2.5620E-01			0.2562	ug/Kg			U
1	BLNK	S1004280107		0 0			Trichlorofluoromethane	SOLID		<9.3999E-02			0.093999	ug/Kg			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019123

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1004280107		0 0			o-Xylene	SOLID		<9.2000E-02			0.092	ug/Kg			U
1	BLNK	S1004280107		0 0			m,p-Xylene	SOLID		<1.6740E-01			0.1674	ug/Kg			U
1	BLNK	S1004280107		0 0			4-Bromofluorobenzene	SOLID	20	1.9099E+01			0.1328	ug/Kg	95.495	% Recovery	
1	BLNK	S1004280107		0 0			Dibromofluoromethane	SOLID	20	1.8416E+01			0.1808	ug/Kg	92.08	% Recovery	
1	BLNK	S1004280107		0 0			1,2-Dichloroethane-d4	SOLID	20	1.8956E+01			0.1916	ug/Kg	94.78	% Recovery	
1	BLNK	S1004280107		0 0			Toluene-d8	SOLID	20	1.9896E+01			0.1714	ug/Kg	99.48	% Recovery	
Sample Sequence 2																	
2	LCS	S1004280108		0 0			1,1-Dichloroethene	SOLID	20	2.0450E+01			0.4232	ug/Kg	102.25	% Recovery	
2	LCS	S1004280108		0 0			1-Butanol	SOLID	200	2.2748E+02			10.292	ug/Kg	113.74	% Recovery	
2	LCS	S1004280108		0 0			4-Methyl-2-pentanone	SOLID	100	1.3223E+02			1.708	ug/Kg	132.23	% Recovery	
2	LCS	S1004280108		0 0			Acetone	SOLID	100	9.5089E+01			2.1996	ug/Kg	95.089	% Recovery	
2	LCS	S1004280108		0 0			Benzene	SOLID	20	1.9292E+01			0.1474	ug/Kg	96.46	% Recovery	
2	LCS	S1004280108		0 0			Chlorobenzene	SOLID	20	2.0134E+01			0.0864	ug/Kg	100.67	% Recovery	
2	LCS	S1004280108		0 0			2-Butanone	SOLID	100	1.1525E+02			1.9644	ug/Kg	115.25	% Recovery	
2	LCS	S1004280108		0 0			Toluene	SOLID	20	2.0288E+01			0.080199	ug/Kg	101.44	% Recovery	
2	LCS	S1004280108		0 0			Trichloroethene	SOLID	20	1.8409E+01			0.121	ug/Kg	92.045	% Recovery	
2	LCS	S1004280108		0 0			4-Bromofluorobenzene	SOLID	20	2.0522E+01			0.1328	ug/Kg	102.61	% Recovery	
2	LCS	S1004280108		0 0			Dibromofluoromethane	SOLID	20	2.0373E+01			0.1808	ug/Kg	101.86	% Recovery	
2	LCS	S1004280108		0 0			1,2-Dichloroethane-d4	SOLID	20	2.1398E+01			0.1916	ug/Kg	106.99	% Recovery	
2	LCS	S1004280108		0 0			Toluene-d8	SOLID	20	2.1912E+01			0.1714	ug/Kg	109.56	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000371		0 0			1,1,1-Trichloroethane	SOLID	N/A	<8.7786E-02			0.087786	ug/Kg			U
3	SAMPLE	S10V000371		0 0			1,1,2-Trichloroethane	SOLID	N/A	<1.5821E-01			0.15821	ug/Kg			U
3	SAMPLE	S10V000371		0 0			1,1,2,2-Tetrachloroethane	SOLID	N/A	<2.0191E-01			0.20191	ug/Kg			U
3	SAMPLE	S10V000371		0 0			1,1-Dichloroethene	SOLID	N/A	<4.0382E-01			0.40382	ug/Kg			U
3	SAMPLE	S10V000371		0 0			1,2-Dichloroethane	SOLID	N/A	<5.1335E-02			0.051335	ug/Kg			U
3	SAMPLE	S10V000371		0 0			1-Butanol	SOLID	N/A	<9.8206E+00			9.8206	ug/Kg			U
3	SAMPLE	S10V000371		0 0			4-Methyl-2-pentanone	SOLID	N/A	<1.6298E+00			1.6298	ug/Kg			Ub
3	SAMPLE	S10V000371		0 0			Acetone	SOLID	N/A	4.6247E+01			2.0989	ug/Kg			b
3	SAMPLE	S10V000371		0 0			Benzene	SOLID	N/A	<1.4065E-01			0.14065	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Carbon Disulfide	SOLID	N/A	<1.5344E-01			0.15344	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Carbon Tetrachloride	SOLID	N/A	<8.9122E-02			0.089122	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Chloroform	SOLID	N/A	<1.2481E-01			0.12481	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Chlorobenzene	SOLID	N/A	<8.2442E-02			0.082442	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Ethylbenzene	SOLID	N/A	<1.0229E-01			0.10229	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Xylenes (total)	SOLID	N/A	<1.9389E-01			0.19389	ug/Kg			U
3	SAMPLE	S10V000371		0 0			2-Butanone	SOLID	N/A	<1.8744E+00			1.8744	ug/Kg			Ub
3	SAMPLE	S10V000371		0 0			Methylene Chloride	SOLID	N/A	<6.1068E-02			0.061068	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Tetrachloroethene	SOLID	N/A	<1.0477E-01			0.10477	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Toluene	SOLID	N/A	3.2470E-01			0.076526	ug/Kg			BJ
3	SAMPLE	S10V000371		0 0			trans-1,3-Dichloropropene	SOLID	N/A	<2.5859E-01			0.25859	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019123

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000371		0 0			Trichloroethene	SOLID	N/A	<1.1546E-01			0.11546	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Vinyl Chloride	SOLID	N/A	<1.6546E-01			0.16546	ug/Kg			U
3	SAMPLE	S10V000371		0 0			cis-Dichloroethylene	SOLID	N/A	<1.7328E-01			0.17328	ug/Kg			U
3	SAMPLE	S10V000371		0 0			trans-Dichloroethylene	SOLID	N/A	<2.8912E-01			0.28912	ug/Kg			U
3	SAMPLE	S10V000371		0 0			112Trichloro-122Trifluoroethan	SOLID	N/A	<1.1088E-01			0.11088	ug/Kg			U
3	SAMPLE	S10V000371		0 0			2-Nitropropane	SOLID	N/A	<5.6107E-01			0.56107	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Ethyl acetate	SOLID	N/A	<5.6030E-01			0.5603	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Diethyl ether	SOLID	N/A	<2.4446E-01			0.24446	ug/Kg			U
3	SAMPLE	S10V000371		0 0			Trichlorofluoromethane	SOLID	N/A	<8.9694E-02			0.089694	ug/Kg			U
3	SAMPLE	S10V000371		0 0			o-Xylene	SOLID	N/A	<8.7786E-02			0.087786	ug/Kg			U
3	SAMPLE	S10V000371		0 0			m,p-Xylene	SOLID	N/A	<1.5973E-01			0.15973	ug/Kg			U
3	SAMPLE	S10V000371		0 0			4-Bromofluorobenzene	SOLID	19.08396	1.6276E+01			0.12672	ug/Kg	85.286	% Recovery	
3	SAMPLE	S10V000371		0 0			Dibromofluoromethane	SOLID	19.08396	1.7125E+01			0.17252	ug/Kg	89.735	% Recovery	
3	SAMPLE	S10V000371		0 0			1,2-Dichloroethane-d4	SOLID	19.08396	1.9352E+01			0.18282	ug/Kg	101.4	% Recovery	
3	SAMPLE	S10V000371		0 0			Toluene-d8	SOLID	19.08396	1.8367E+01			0.16355	ug/Kg	96.243	% Recovery	
Sample Sequence 4																	
4	MS	S1004280110	S10V000371	0 0			1,1-Dichloroethene	SOLID	17.85714	1.6980E+01			0.37786	ug/Kg	95.088	% Recovery	
4	MS	S1004280110	S10V000371	0 0			1-Butanol	SOLID	178.5714	2.5075E+02			9.1893	ug/Kg	140.42	% Recovery	
4	MS	S1004280110	S10V000371	0 0			4-Methyl-2-pentanone	SOLID	89.28571	1.3905E+02			1.525	ug/Kg	155.74	% Recovery	
4	MS	S1004280110	S10V000371	0 0			Acetone	SOLID	89.28571	2.0219E+02			1.9639	ug/Kg	174.66	% Recovery	
4	MS	S1004280110	S10V000371	0 0			Benzene	SOLID	17.85714	1.6446E+01			0.13161	ug/Kg	92.098	% Recovery	
4	MS	S1004280110	S10V000371	0 0			Chlorobenzene	SOLID	17.85714	1.7006E+01			0.077142	ug/Kg	95.234	% Recovery	
4	MS	S1004280110	S10V000371	0 0			2-Butanone	SOLID	89.28571	1.2177E+02			1.7539	ug/Kg	136.38	% Recovery	
4	MS	S1004280110	S10V000371	0 0			Toluene	SOLID	17.85714	1.7237E+01			0.071607	ug/Kg	94.709	% Recovery	
4	MS	S1004280110	S10V000371	0 0			Trichloroethene	SOLID	17.85714	1.5420E+01			0.10804	ug/Kg	86.352	% Recovery	
4	MS	S1004280110	S10V000371	0 0			4-Bromofluorobenzene	SOLID	17.85714	1.6429E+01			0.11857	ug/Kg	92.002	% Recovery	
4	MS	S1004280110	S10V000371	0 0			Dibromofluoromethane	SOLID	17.85714	1.7294E+01			0.16143	ug/Kg	96.846	% Recovery	
4	MS	S1004280110	S10V000371	0 0			1,2-Dichloroethane-d4	SOLID	17.85714	1.9735E+01			0.17107	ug/Kg	110.52	% Recovery	
4	MS	S1004280110	S10V000371	0 0			Toluene-d8	SOLID	17.85714	1.8450E+01			0.15304	ug/Kg	103.32	% Recovery	
Sample Sequence 5																	
5	MSD	S1004280111	S10V000371	0 0			1,1-Dichloroethene	SOLID	23.20185	2.2142E+01			0.49095	ug/Kg	95.432	% Recovery	
															0.36112	% RPD	
5	MSD	S1004280111	S10V000371	0 0			1-Butanol	SOLID	232.0185	3.0060E+02			11.94	ug/Kg	129.56	% Recovery	
															8.0450	% RPD	
5	MSD	S1004280111	S10V000371	0 0			4-Methyl-2-pentanone	SOLID	116.0092	1.7080E+02			1.9814	ug/Kg	147.23	% Recovery	
															5.6177	% RPD	
5	MSD	S1004280111	S10V000371	0 0			Acetone	SOLID	116.0092	2.6043E+02			2.5517	ug/Kg	184.63	% Recovery	
															5.5498	% RPD	
5	MSD	S1004280111	S10V000371	0 0			Benzene	SOLID	23.20185	2.0991E+01			0.171	ug/Kg	90.471	% Recovery	
															1.7823	% RPD	
5	MSD	S1004280111	S10V000371	0 0			Chlorobenzene	SOLID	23.20185	2.2256E+01			0.10023	ug/Kg	95.923	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019123

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
															0.72087	% RPD	
5	MSD	S1004280111	S10V000371	0 0			2-Butanone	SOLID	116.0092	1.4511E+02			2.2789	ug/Kg	125.08	% Recovery	
															8.6438	% RPD	
5	MSD	S1004280111	S10V000371	0 0			Toluene	SOLID	23.20185	2.2993E+01			0.093039	ug/Kg	97.7	% Recovery	
															3.1090	% RPD	
5	MSD	S1004280111	S10V000371	0 0			Trichloroethene	SOLID	23.20185	2.0052E+01			0.14037	ug/Kg	86.424	% Recovery	
															0.083345	% RPD	
5	MSD	S1004280111	S10V000371	0 0			4-Bromofluorobenzene	SOLID	23.20185	2.1807E+01			0.15406	ug/Kg	93.988	% Recovery	
															2.1356	% RPD	
5	MSD	S1004280111	S10V000371	0 0			Dibromofluoromethane	SOLID	23.20185	2.1801E+01			0.20974	ug/Kg	93.962	% Recovery	
															3.0229	% RPD	
5	MSD	S1004280111	S10V000371	0 0			1,2-Dichloroethane-d4	SOLID	23.20185	2.5162E+01			0.22227	ug/Kg	108.45	% Recovery	
															1.8907	% RPD	
5	MSD	S1004280111	S10V000371	0 0			Toluene-d8	SOLID	23.20185	2.4530E+01			0.19884	ug/Kg	105.72	% Recovery	
															2.2962	% RPD	
Sample Sequence 6																	
6	SAMPLE	S10V000373		0 0			1,1,1-Trichloroethane	SOLID	N/A	<7.6411E-02			0.076411	ug/Kg			U
6	SAMPLE	S10V000373		0 0			1,1,2-Trichloroethane	SOLID	N/A	<1.3771E-01			0.13771	ug/Kg			U
6	SAMPLE	S10V000373		0 0			1,1,2,2-Tetrachloroethane	SOLID	N/A	<1.7575E-01			0.17575	ug/Kg			U
6	SAMPLE	S10V000373		0 0			1,1-Dichloroethene	SOLID	N/A	<3.5150E-01			0.3515	ug/Kg			U
6	SAMPLE	S10V000373		0 0			1,2-Dichloroethane	SOLID	N/A	<4.4684E-02			0.044684	ug/Kg			U
6	SAMPLE	S10V000373		0 0			1-Butanol	SOLID	N/A	<8.5482E+00			8.5482	ug/Kg			U
6	SAMPLE	S10V000373		0 0			4-Methyl-2-pentanone	SOLID	N/A	<1.4186E+00			1.4186	ug/Kg			Ub
6	SAMPLE	S10V000373		0 0			Acetone	SOLID	N/A	<1.8269E+00			1.8269	ug/Kg			Ub
6	SAMPLE	S10V000373		0 0			Benzene	SOLID	N/A	<1.2242E-01			0.12242	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Carbon Disulfide	SOLID	N/A	<1.3355E-01			0.13355	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Carbon Tetrachloride	SOLID	N/A	<7.7574E-02			0.077574	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Chloroform	SOLID	N/A	<1.0864E-01			0.10864	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Chlorobenzene	SOLID	N/A	<7.1760E-02			0.07176	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Ethylbenzene	SOLID	N/A	<8.9036E-02			0.089036	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Xylenes (total)	SOLID	N/A	<1.6877E-01			0.16877	ug/Kg			U
6	SAMPLE	S10V000373		0 0			2-Butanone	SOLID	N/A	<1.6316E+00			1.6316	ug/Kg			Ub
6	SAMPLE	S10V000373		0 0			Methylene Chloride	SOLID	N/A	<5.3156E-02			0.053156	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Tetrachloroethene	SOLID	N/A	<9.1196E-02			0.091196	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Toluene	SOLID	N/A	3.5120E-01			0.066611	ug/Kg			BJ
6	SAMPLE	S10V000373		0 0			trans-1,3-Dichloropropene	SOLID	N/A	<2.2508E-01			0.22508	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Trichloroethene	SOLID	N/A	<1.0050E-01			0.1005	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Vinyl Chloride	SOLID	N/A	<1.4402E-01			0.14402	ug/Kg			U
6	SAMPLE	S10V000373		0 0			cis-Dichloroethylene	SOLID	N/A	<1.5083E-01			0.15083	ug/Kg			U
6	SAMPLE	S10V000373		0 0			trans-Dichloroethylene	SOLID	N/A	<2.5166E-01			0.25166	ug/Kg			U

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019123

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
6	SAMPLE	S10V000373		0 0			112Trichloro-122Trifluoroethan	SOLID	N/A	<9.6511E-02			0.096511	ug/Kg			U
6	SAMPLE	S10V000373		0 0			2-Nitropropane	SOLID	N/A	<4.8837E-01			0.48837	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Ethyl acetate	SOLID	N/A	<4.8771E-01			0.48771	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Diethyl ether	SOLID	N/A	<2.1279E-01			0.21279	ug/Kg			U
6	SAMPLE	S10V000373		0 0			Trichlorofluoromethane	SOLID	N/A	<7.8073E-02			0.078073	ug/Kg			U
6	SAMPLE	S10V000373		0 0			o-Xylene	SOLID	N/A	<7.6411E-02			0.076411	ug/Kg			U
6	SAMPLE	S10V000373		0 0			m,p-Xylene	SOLID	N/A	<1.3904E-01			0.13904	ug/Kg			U
6	SAMPLE	S10V000373		0 0			4-Bromofluorobenzene	SOLID	16.61129	1.4951E+01			0.1103	ug/Kg	90.005	% Recovery	
6	SAMPLE	S10V000373		0 0			Dibromofluoromethane	SOLID	16.61129	1.5832E+01			0.15017	ug/Kg	95.309	% Recovery	
6	SAMPLE	S10V000373		0 0			1,2-Dichloroethane-d4	SOLID	16.61129	1.6985E+01			0.15914	ug/Kg	102.25	% Recovery	
6	SAMPLE	S10V000373		0 0			Toluene-d8	SOLID	16.61129	1.5999E+01			0.14236	ug/Kg	96.314	% Recovery	
6	SAMPLE	S10V000373		0 0			Unknown-1	SOLID		2.1220808				ug/Kg			JT

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019123

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019123

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004280107	BLNK				
2	S1004280108	LCS				
3	S10V000371	SAMPLE		20100213	B23KP2	C Farm WMC 2010-1
4	S1004280110	MS	S10V000371			
5	S1004280111	MSD	S10V000371			
6	S10V000373	SAMPLE		20100213	B23KP8	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019486

Analyst: Getz, Andrew

Book#:

Instrument: GCMSD3 (OHURA) for VOA

Method: VOA 222S #2, LA-523-118 Rev/Mod G-0-A

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: C Farm WMC 2010-1, VOA, Solid, Group 20100213

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1005190015		0 0			1,1,1-Trichloroethane	SOLID		<9.2000E-02			0.092	ug/Kg			U
1	BLNK	S1005190015		0 0			1,1,2-Trichloroethane	SOLID		<1.6580E-01			0.1658	ug/Kg			U
1	BLNK	S1005190015		0 0			1,1,2,2-Tetrachloroethane	SOLID		<2.1160E-01			0.2116	ug/Kg			U
1	BLNK	S1005190015		0 0			1,1-Dichloroethene	SOLID		<4.2320E-01			0.4232	ug/Kg			U
1	BLNK	S1005190015		0 0			1,2-Dichloroethane	SOLID		<5.3799E-02			0.053799	ug/Kg			U
1	BLNK	S1005190015		0 0			1-Butanol	SOLID		<1.0292E+01			10.292	ug/Kg			U
1	BLNK	S1005190015		0 0			4-Methyl-2-pentanone	SOLID		<1.7080E+00			1.708	ug/Kg			U
1	BLNK	S1005190015		0 0			Acetone	SOLID		<2.1996E+00			2.1996	ug/Kg			U
1	BLNK	S1005190015		0 0			Benzene	SOLID		<1.4740E-01			0.1474	ug/Kg			U
1	BLNK	S1005190015		0 0			Carbon Disulfide	SOLID		<1.6080E-01			0.1608	ug/Kg			U
1	BLNK	S1005190015		0 0			Carbon Tetrachloride	SOLID		<9.3400E-02			0.0934	ug/Kg			U
1	BLNK	S1005190015		0 0			Chloroform	SOLID		<1.3080E-01			0.1308	ug/Kg			U
1	BLNK	S1005190015		0 0			Chlorobenzene	SOLID		<8.6400E-02			0.0864	ug/Kg			U
1	BLNK	S1005190015		0 0			Ethylbenzene	SOLID		<1.0720E-01			0.1072	ug/Kg			U
1	BLNK	S1005190015		0 0			Xylenes (total)	SOLID		<2.0320E-01			0.2032	ug/Kg			U
1	BLNK	S1005190015		0 0			2-Butanone	SOLID		<1.9644E+00			1.9644	ug/Kg			U
1	BLNK	S1005190015		0 0			Methylene Chloride	SOLID		<6.3999E-02			0.063999	ug/Kg			U
1	BLNK	S1005190015		0 0			Tetrachloroethene	SOLID		<1.0980E-01			0.1098	ug/Kg			U
1	BLNK	S1005190015		0 0			Toluene	SOLID		<8.0199E-02			0.080199	ug/Kg			U
1	BLNK	S1005190015		0 0			trans-1,3-Dichloropropene	SOLID		<2.7100E-01			0.271	ug/Kg			U
1	BLNK	S1005190015		0 0			Trichloroethene	SOLID		<1.2100E-01			0.121	ug/Kg			U
1	BLNK	S1005190015		0 0			Vinyl Chloride	SOLID		<1.7340E-01			0.1734	ug/Kg			U
1	BLNK	S1005190015		0 0			cis-Dichloroethylene	SOLID		<1.8160E-01			0.1816	ug/Kg			U
1	BLNK	S1005190015		0 0			trans-Dichloroethylene	SOLID		<3.0300E-01			0.303	ug/Kg			U
1	BLNK	S1005190015		0 0			112Trichloro-122Trifluoroethan	SOLID		<1.1620E-01			0.1162	ug/Kg			U
1	BLNK	S1005190015		0 0			2-Nitropropane	SOLID		<5.8800E-01			0.588	ug/Kg			U
1	BLNK	S1005190015		0 0			Ethyl acetate	SOLID		<5.8720E-01			0.5872	ug/Kg			U
1	BLNK	S1005190015		0 0			Diethyl ether	SOLID		<2.5620E-01			0.2562	ug/Kg			U
1	BLNK	S1005190015		0 0			Trichlorofluoromethane	SOLID		<9.3999E-02			0.093999	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019486

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1005190015		0 0			o-Xylene	SOLID		<9.2000E-02			0.092	ug/Kg			U
1	BLNK	S1005190015		0 0			m,p-Xylene	SOLID		<1.6740E-01			0.1674	ug/Kg			U
1	BLNK	S1005190015		0 0			4-Bromofluorobenzene	SOLID	20	2.3117E+01			0.1328	ug/Kg	115.58	% Recovery	
1	BLNK	S1005190015		0 0			Dibromofluoromethane	SOLID	20	2.1689E+01			0.1808	ug/Kg	108.44	% Recovery	
1	BLNK	S1005190015		0 0			1,2-Dichloroethane-d4	SOLID	20	2.2069E+01			0.1916	ug/Kg	110.34	% Recovery	
1	BLNK	S1005190015		0 0			Toluene-d8	SOLID	20	2.3434E+01			0.1714	ug/Kg	117.17	% Recovery	
1	BLNK	S1005190015		0 0			p-Terphenyl	SOLID		30.222951				ug/Kg			JNT
Sample Sequence 2																	
2	LCS	S1005190016		0 0			1,1-Dichloroethene	SOLID	20	2.3275E+01			0.4232	ug/Kg	116.38	% Recovery	
2	LCS	S1005190016		0 0			1-Butanol	SOLID	200	1.6793E+02			10.292	ug/Kg	83.965	% Recovery	
2	LCS	S1005190016		0 0			4-Methyl-2-pentanone	SOLID	100	1.2602E+02			1.708	ug/Kg	126.02	% Recovery	
2	LCS	S1005190016		0 0			Acetone	SOLID	100	1.2574E+02			2.1996	ug/Kg	125.74	% Recovery	
2	LCS	S1005190016		0 0			Benzene	SOLID	20	2.1606E+01			0.1474	ug/Kg	108.03	% Recovery	
2	LCS	S1005190016		0 0			Chlorobenzene	SOLID	20	2.1612E+01			0.0864	ug/Kg	108.06	% Recovery	
2	LCS	S1005190016		0 0			2-Butanone	SOLID	100	1.0519E+02			1.9644	ug/Kg	105.19	% Recovery	
2	LCS	S1005190016		0 0			Toluene	SOLID	20	2.1852E+01			0.080199	ug/Kg	109.26	% Recovery	
2	LCS	S1005190016		0 0			Trichloroethene	SOLID	20	2.0292E+01			0.121	ug/Kg	101.46	% Recovery	
2	LCS	S1005190016		0 0			4-Bromofluorobenzene	SOLID	20	2.3364E+01			0.1328	ug/Kg	116.82	% Recovery	
2	LCS	S1005190016		0 0			Dibromofluoromethane	SOLID	20	2.1588E+01			0.1808	ug/Kg	107.94	% Recovery	
2	LCS	S1005190016		0 0			1,2-Dichloroethane-d4	SOLID	20	2.2591E+01			0.1916	ug/Kg	112.96	% Recovery	
2	LCS	S1005190016		0 0			Toluene-d8	SOLID	20	2.2606E+01			0.1714	ug/Kg	113.03	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000376		0 0			1,1,1-Trichloroethane	SOLID	N/A	<8.2733E-02			0.082733	ug/Kg			U
3	SAMPLE	S10V000376		0 0			1,1,2-Trichloroethane	SOLID	N/A	<1.4910E-01			0.1491	ug/Kg			U
3	SAMPLE	S10V000376		0 0			1,1,2,2-Tetrachloroethane	SOLID	N/A	<1.9029E-01			0.19029	ug/Kg			U
3	SAMPLE	S10V000376		0 0			1,1-Dichloroethene	SOLID	N/A	<3.8058E-01			0.38058	ug/Kg			U
3	SAMPLE	S10V000376		0 0			1,2-Dichloroethane	SOLID	N/A	<4.8381E-02			0.048381	ug/Kg			U
3	SAMPLE	S10V000376		0 0			1-Butanol	SOLID	N/A	<9.2554E+00			9.2554	ug/Kg			U
3	SAMPLE	S10V000376		0 0			4-Methyl-2-pentanone	SOLID	N/A	<1.5360E+00			1.536	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Acetone	SOLID	N/A	<1.9781E+00			1.9781	ug/Kg			Ub
3	SAMPLE	S10V000376		0 0			Benzene	SOLID	N/A	<1.3255E-01			0.13255	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Carbon Disulfide	SOLID	N/A	<1.4460E-01			0.1446	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Carbon Tetrachloride	SOLID	N/A	<8.3992E-02			0.083992	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Chloroform	SOLID	N/A	<1.1762E-01			0.11762	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Chlorobenzene	SOLID	N/A	<7.7697E-02			0.077697	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Ethylbenzene	SOLID	N/A	<9.6402E-02			0.096402	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Xylenes (total)	SOLID	N/A	<1.8273E-01			0.18273	ug/Kg			U
3	SAMPLE	S10V000376		0 0			2-Butanone	SOLID	N/A	<1.7665E+00			1.7665	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Methylene Chloride	SOLID	N/A	<5.7553E-02			0.057553	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Tetrachloroethene	SOLID	N/A	<9.8741E-02			0.098741	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Toluene	SOLID	N/A	3.1380E-01			0.072122	ug/Kg			J

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LABCORE Completed Batch Report for Batch# 00019486

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000376		0 0			trans-1,3-Dichloropropene	SOLID	N/A	<2.4370E-01			0.2437	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Trichloroethene	SOLID	N/A	<1.0881E-01			0.10881	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Vinyl Chloride	SOLID	N/A	<1.5594E-01			0.15594	ug/Kg			U
3	SAMPLE	S10V000376		0 0			cis-Dichloroethylene	SOLID	N/A	<1.6331E-01			0.16331	ug/Kg			U
3	SAMPLE	S10V000376		0 0			trans-Dichloroethylene	SOLID	N/A	<2.7248E-01			0.27248	ug/Kg			U
3	SAMPLE	S10V000376		0 0			112Trichloro-122Trifluoroethan	SOLID	N/A	<1.0450E-01			0.1045	ug/Kg			U
3	SAMPLE	S10V000376		0 0			2-Nitropropane	SOLID	N/A	<5.2878E-01			0.52878	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Ethyl acetate	SOLID	N/A	<5.2806E-01			0.52806	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Diethyl ether	SOLID	N/A	<2.3040E-01			0.2304	ug/Kg			U
3	SAMPLE	S10V000376		0 0			Trichlorofluoromethane	SOLID	N/A	<8.4532E-02			0.084532	ug/Kg			U
3	SAMPLE	S10V000376		0 0			o-Xylene	SOLID	N/A	<8.2733E-02			0.082733	ug/Kg			U
3	SAMPLE	S10V000376		0 0			m,p-Xylene	SOLID	N/A	<1.5054E-01			0.15054	ug/Kg			U
3	SAMPLE	S10V000376		0 0			4-Bromofluorobenzene	SOLID	17.98561	1.7664E+01			0.11942	ug/Kg	98.212	% Recovery	
3	SAMPLE	S10V000376		0 0			Dibromofluoromethane	SOLID	17.98561	1.8302E+01			0.16259	ug/Kg	101.76	% Recovery	
3	SAMPLE	S10V000376		0 0			1,2-Dichloroethane-d4	SOLID	17.98561	2.0065E+01			0.1723	ug/Kg	111.56	% Recovery	
3	SAMPLE	S10V000376		0 0			Toluene-d8	SOLID	17.98561	1.8417E+01			0.15414	ug/Kg	102.4	% Recovery	
3	SAMPLE	S10V000376		0 0			Heptane, 2,4-dimethyl-	SOLID		2.3762674				ug/Kg			JNT
3	SAMPLE	S10V000376		0 0			Unknown Hydrocarbon-2	SOLID		1.9534572				ug/Kg			JT
3	SAMPLE	S10V000376		0 0			Unknown-1	SOLID		2.4076123				ug/Kg			JT
Sample Sequence 4																	
4	MS	S1005190018	S10V000376	0 0			1,1-Dichloroethene	SOLID	19.30501	2.1458E+01			0.40849	ug/Kg	111.15	% Recovery	
4	MS	S1005190018	S10V000376	0 0			1-Butanol	SOLID	193.0501	1.9607E+02			9.9344	ug/Kg	101.56	% Recovery	
4	MS	S1005190018	S10V000376	0 0			4-Methyl-2-pentanone	SOLID	96.52509	1.3460E+02			1.6486	ug/Kg	139.45	% Recovery	
4	MS	S1005190018	S10V000376	0 0			Acetone	SOLID	96.52509	1.4482E+02			2.1232	ug/Kg	150.03	% Recovery	
4	MS	S1005190018	S10V000376	0 0			Benzene	SOLID	19.30501	2.0208E+01			0.14228	ug/Kg	104.68	% Recovery	
4	MS	S1005190018	S10V000376	0 0			Chlorobenzene	SOLID	19.30501	1.9365E+01			0.083397	ug/Kg	100.31	% Recovery	
4	MS	S1005190018	S10V000376	0 0			2-Butanone	SOLID	96.52509	1.1592E+02			1.8961	ug/Kg	120.09	% Recovery	
4	MS	S1005190018	S10V000376	0 0			Toluene	SOLID	19.30501	2.0015E+01			0.077413	ug/Kg	102.05	% Recovery	
4	MS	S1005190018	S10V000376	0 0			Trichloroethene	SOLID	19.30501	1.8433E+01			0.1168	ug/Kg	95.483	% Recovery	
4	MS	S1005190018	S10V000376	0 0			4-Bromofluorobenzene	SOLID	19.30501	1.9543E+01			0.12818	ug/Kg	101.23	% Recovery	
4	MS	S1005190018	S10V000376	0 0			Dibromofluoromethane	SOLID	19.30501	2.0206E+01			0.17452	ug/Kg	104.67	% Recovery	
4	MS	S1005190018	S10V000376	0 0			1,2-Dichloroethane-d4	SOLID	19.30501	2.2503E+01			0.18494	ug/Kg	116.57	% Recovery	
4	MS	S1005190018	S10V000376	0 0			Toluene-d8	SOLID	19.30501	2.0012E+01			0.16544	ug/Kg	103.66	% Recovery	
Sample Sequence 5																	
5	MSD	S1005190019	S10V000376	0 0			1,1-Dichloroethene	SOLID	23.04147	2.5811E+01			0.48756	ug/Kg	112.02	% Recovery	
															0.77967	% RPD	
5	MSD	S1005190019	S10V000376	0 0			1-Butanol	SOLID	230.4147	2.0869E+02			11.857	ug/Kg	90.571	% Recovery	
															11.439	% RPD	
5	MSD	S1005190019	S10V000376	0 0			4-Methyl-2-pentanone	SOLID	115.2073	1.5102E+02			1.9677	ug/Kg	131.09	% Recovery	
															6.1802	% RPD	

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LABCORE Completed Batch Report for Batch# 00019486

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
5	MSD	S1005190019	S10V000376	0 0			Acetone	SOLID	115.2073	1.6150E+02			2.5341	ug/Kg	140.18	% Recovery	
															6.7882	% RPD	
5	MSD	S1005190019	S10V000376	0 0			Benzene	SOLID	23.04147	2.3821E+01			0.16982	ug/Kg	103.38	% Recovery	
															1.2496	% RPD	
5	MSD	S1005190019	S10V000376	0 0			Chlorobenzene	SOLID	23.04147	2.2699E+01			0.099539	ug/Kg	98.514	% Recovery	
															1.8066	% RPD	
5	MSD	S1005190019	S10V000376	0 0			2-Butanone	SOLID	115.2073	1.2895E+02			2.2631	ug/Kg	111.93	% Recovery	
															7.0339	% RPD	
5	MSD	S1005190019	S10V000376	0 0			Toluene	SOLID	23.04147	2.3946E+01			0.092396	ug/Kg	102.56	% Recovery	
															0.49851	% RPD	
5	MSD	S1005190019	S10V000376	0 0			Trichloroethene	SOLID	23.04147	2.1956E+01			0.1394	ug/Kg	95.289	% Recovery	
															0.20338	% RPD	
5	MSD	S1005190019	S10V000376	0 0			4-Bromofluorobenzene	SOLID	23.04147	2.3088E+01			0.153	ug/Kg	100.2	% Recovery	
															1.0227	% RPD	
5	MSD	S1005190019	S10V000376	0 0			Dibromofluoromethane	SOLID	23.04147	2.4234E+01			0.20829	ug/Kg	105.18	% Recovery	
															0.48606	% RPD	
5	MSD	S1005190019	S10V000376	0 0			1,2-Dichloroethane-d4	SOLID	23.04147	2.5499E+01			0.22074	ug/Kg	110.67	% Recovery	
															5.1927	% RPD	
5	MSD	S1005190019	S10V000376	0 0			Toluene-d8	SOLID	23.04147	2.4442E+01			0.19746	ug/Kg	106.08	% Recovery	
															2.3076	% RPD	
Sample Sequence 6																	
6	SAMPLE	S10V000375		0 0			1,1,1-Trichloroethane	SOLID	N/A	<9.2000E-02			0.092	ug/Kg			U
6	SAMPLE	S10V000375		0 0			1,1,2-Trichloroethane	SOLID	N/A	<1.6580E-01			0.1658	ug/Kg			U
6	SAMPLE	S10V000375		0 0			1,1,2,2-Tetrachloroethane	SOLID	N/A	<2.1160E-01			0.2116	ug/Kg			U
6	SAMPLE	S10V000375		0 0			1,1-Dichloroethene	SOLID	N/A	<4.2320E-01			0.4232	ug/Kg			U
6	SAMPLE	S10V000375		0 0			1,2-Dichloroethane	SOLID	N/A	<5.3799E-02			0.053799	ug/Kg			U
6	SAMPLE	S10V000375		0 0			1-Butanol	SOLID	N/A	<1.0292E+01			10.292	ug/Kg			U
6	SAMPLE	S10V000375		0 0			4-Methyl-2-pentanone	SOLID	N/A	<1.7080E+00			1.708	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Acetone	SOLID	N/A	<2.1996E+00			2.1996	ug/Kg			Ub
6	SAMPLE	S10V000375		0 0			Benzene	SOLID	N/A	<1.4740E-01			0.1474	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Carbon Disulfide	SOLID	N/A	<1.6080E-01			0.1608	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Carbon Tetrachloride	SOLID	N/A	<9.3400E-02			0.0934	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Chloroform	SOLID	N/A	<1.3080E-01			0.1308	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Chlorobenzene	SOLID	N/A	<8.6400E-02			0.0864	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Ethylbenzene	SOLID	N/A	<1.0720E-01			0.1072	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Xylenes (total)	SOLID	N/A	<2.0320E-01			0.2032	ug/Kg			U
6	SAMPLE	S10V000375		0 0			2-Butanone	SOLID	N/A	<1.9644E+00			1.9644	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Methylene Chloride	SOLID	N/A	<6.3999E-02			0.063999	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Tetrachloroethene	SOLID	N/A	<1.0980E-01			0.1098	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Toluene	SOLID	N/A	3.3130E-01			0.080199	ug/Kg			J
6	SAMPLE	S10V000375		0 0			trans-1,3-Dichloropropene	SOLID	N/A	<2.7100E-01			0.271	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019486

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
6	SAMPLE	S10V000375		0 0			Trichloroethene	SOLID	N/A	<1.2100E-01			0.121	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Vinyl Chloride	SOLID	N/A	<1.7340E-01			0.1734	ug/Kg			U
6	SAMPLE	S10V000375		0 0			cis-Dichloroethylene	SOLID	N/A	<1.8160E-01			0.1816	ug/Kg			U
6	SAMPLE	S10V000375		0 0			trans-Dichloroethylene	SOLID	N/A	<3.0300E-01			0.303	ug/Kg			U
6	SAMPLE	S10V000375		0 0			112Trichloro-122Trifluoroethan	SOLID	N/A	<1.1620E-01			0.1162	ug/Kg			U
6	SAMPLE	S10V000375		0 0			2-Nitropropane	SOLID	N/A	<5.8800E-01			0.588	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Ethyl acetate	SOLID	N/A	<5.8720E-01			0.5872	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Diethyl ether	SOLID	N/A	<2.5620E-01			0.2562	ug/Kg			U
6	SAMPLE	S10V000375		0 0			Trichlorofluoromethane	SOLID	N/A	<9.3999E-02			0.093999	ug/Kg			U
6	SAMPLE	S10V000375		0 0			o-Xylene	SOLID	N/A	<9.2000E-02			0.092	ug/Kg			U
6	SAMPLE	S10V000375		0 0			m,p-Xylene	SOLID	N/A	<1.6740E-01			0.1674	ug/Kg			U
6	SAMPLE	S10V000375		0 0			4-Bromofluorobenzene	SOLID	20	2.0897E+01			0.1328	ug/Kg	104.48	% Recovery	
6	SAMPLE	S10V000375		0 0			Dibromofluoromethane	SOLID	20	2.0921E+01			0.1808	ug/Kg	104.6	% Recovery	
6	SAMPLE	S10V000375		0 0			1,2-Dichloroethane-d4	SOLID	20	2.2775E+01			0.1916	ug/Kg	113.88	% Recovery	
6	SAMPLE	S10V000375		0 0			Toluene-d8	SOLID	20	2.1285E+01			0.1714	ug/Kg	106.42	% Recovery	
6	SAMPLE	S10V000375		0 0			Unknown-1	SOLID		2.2737125				ug/Kg			JT

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019486

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00019486

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005190015	BLNK				
2	S1005190016	LCS				
3	S10V000376	SAMPLE		20100213	B23KR7	C Farm WMC 2010-1
4	S1005190018	MS	S10V000376			
5	S1005190019	MSD	S10V000376			
6	S10V000375	SAMPLE		20100213	B23KR4	C Farm WMC 2010-1

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LABCORE Completed Batch Report for Batch# 00019566

Analyst: Murphy, Teresa

Book#:

Instrument: GCMSD3 (OHURA) for VOA

Method: VOA 222S #2, LA-523-118 Rev/Mod G-0-A

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: C Farm WMC 2010-1, VOA, Solid, Group 20100064 & 0213

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1005210087		0 0			1,1,1-Trichloroethane	SOLID		<9.2000E-02			0.092	ug/Kg			U
1	BLNK	S1005210087		0 0			1,1,2-Trichloroethane	SOLID		<1.6580E-01			0.1658	ug/Kg			U
1	BLNK	S1005210087		0 0			1,1,2,2-Tetrachloroethane	SOLID		<2.1160E-01			0.2116	ug/Kg			U
1	BLNK	S1005210087		0 0			1,1-Dichloroethene	SOLID		<4.2320E-01			0.4232	ug/Kg			U
1	BLNK	S1005210087		0 0			1,2-Dichloroethane	SOLID		<5.3799E-02			0.053799	ug/Kg			U
1	BLNK	S1005210087		0 0			1-Butanol	SOLID		<1.0292E+01			10.292	ug/Kg			U
1	BLNK	S1005210087		0 0			4-Methyl-2-pentanone	SOLID		<1.7080E+00			1.708	ug/Kg			U
1	BLNK	S1005210087		0 0			Acetone	SOLID		<2.1996E+00			2.1996	ug/Kg			U
1	BLNK	S1005210087		0 0			Benzene	SOLID		<1.4740E-01			0.1474	ug/Kg			U
1	BLNK	S1005210087		0 0			Carbon Disulfide	SOLID		<1.6080E-01			0.1608	ug/Kg			U
1	BLNK	S1005210087		0 0			Carbon Tetrachloride	SOLID		<9.3400E-02			0.0934	ug/Kg			U
1	BLNK	S1005210087		0 0			Chloroform	SOLID		<1.3080E-01			0.1308	ug/Kg			U
1	BLNK	S1005210087		0 0			Chlorobenzene	SOLID		<8.6400E-02			0.0864	ug/Kg			U
1	BLNK	S1005210087		0 0			Ethylbenzene	SOLID		<1.0720E-01			0.1072	ug/Kg			U
1	BLNK	S1005210087		0 0			Xylenes (total)	SOLID		<2.0320E-01			0.2032	ug/Kg			U
1	BLNK	S1005210087		0 0			2-Butanone	SOLID		<1.9644E+00			1.9644	ug/Kg			U
1	BLNK	S1005210087		0 0			Methylene Chloride	SOLID		<6.3999E-02			0.063999	ug/Kg			U
1	BLNK	S1005210087		0 0			Tetrachloroethene	SOLID		<1.0980E-01			0.1098	ug/Kg			U
1	BLNK	S1005210087		0 0			Toluene	SOLID		<8.0199E-02			0.080199	ug/Kg			U
1	BLNK	S1005210087		0 0			trans-1,3-Dichloropropene	SOLID		<2.7100E-01			0.271	ug/Kg			U
1	BLNK	S1005210087		0 0			Trichloroethene	SOLID		<1.2100E-01			0.121	ug/Kg			U
1	BLNK	S1005210087		0 0			Vinyl Chloride	SOLID		<1.7340E-01			0.1734	ug/Kg			U
1	BLNK	S1005210087		0 0			cis-Dichloroethylene	SOLID		<1.8160E-01			0.1816	ug/Kg			U
1	BLNK	S1005210087		0 0			trans-Dichloroethylene	SOLID		<3.0300E-01			0.303	ug/Kg			U
1	BLNK	S1005210087		0 0			112Trichloro-122Trifluoroethan	SOLID		<1.1620E-01			0.1162	ug/Kg			U
1	BLNK	S1005210087		0 0			2-Nitropropane	SOLID		<5.8800E-01			0.588	ug/Kg			U
1	BLNK	S1005210087		0 0			Ethyl acetate	SOLID		<5.8720E-01			0.5872	ug/Kg			U
1	BLNK	S1005210087		0 0			Diethyl ether	SOLID		<2.5620E-01			0.2562	ug/Kg			U
1	BLNK	S1005210087		0 0			Trichlorofluoromethane	SOLID		<9.3999E-02			0.093999	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019566

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1005210087		0 0			o-Xylene	SOLID		<9.2000E-02			0.092	ug/Kg			U
1	BLNK	S1005210087		0 0			m,p-Xylene	SOLID		<1.6740E-01			0.1674	ug/Kg			U
1	BLNK	S1005210087		0 0			4-Bromofluorobenzene	SOLID	20	2.1329E+01			0.1328	ug/Kg	106.64	% Recovery	
1	BLNK	S1005210087		0 0			Dibromofluoromethane	SOLID	20	1.9204E+01			0.1808	ug/Kg	96.02	% Recovery	
1	BLNK	S1005210087		0 0			1,2-Dichloroethane-d4	SOLID	20	2.0003E+01			0.1916	ug/Kg	100.02	% Recovery	
1	BLNK	S1005210087		0 0			Toluene-d8	SOLID	20	2.2178E+01			0.1714	ug/Kg	110.89	% Recovery	
1	BLNK	S1005210087		0 0			2-Hexanone	SOLID		3.6040E+00			2.3642	ug/Kg			J
1	BLNK	S1005210087		0 0			Unknown-1	SOLID		0.9071631				ug/Kg			JT
Sample Sequence 2																	
2	LCS	S1005210088		0 0			1,1-Dichloroethene	SOLID	20	1.9562E+01			0.4232	ug/Kg	97.81	% Recovery	
2	LCS	S1005210088		0 0			1-Butanol	SOLID	200	2.0206E+02			10.292	ug/Kg	101.03	% Recovery	
2	LCS	S1005210088		0 0			4-Methyl-2-pentanone	SOLID	100	1.3793E+02			1.708	ug/Kg	137.93	% Recovery	
2	LCS	S1005210088		0 0			Acetone	SOLID	100	1.4529E+02			2.1996	ug/Kg	145.29	% Recovery	
2	LCS	S1005210088		0 0			Benzene	SOLID	20	1.8908E+01			0.1474	ug/Kg	94.54	% Recovery	
2	LCS	S1005210088		0 0			Chlorobenzene	SOLID	20	1.9882E+01			0.0864	ug/Kg	99.41	% Recovery	
2	LCS	S1005210088		0 0			2-Butanone	SOLID	100	1.0923E+02			1.9644	ug/Kg	109.23	% Recovery	
2	LCS	S1005210088		0 0			Toluene	SOLID	20	2.0318E+01			0.080199	ug/Kg	101.59	% Recovery	
2	LCS	S1005210088		0 0			Trichloroethene	SOLID	20	1.8266E+01			0.121	ug/Kg	91.33	% Recovery	
2	LCS	S1005210088		0 0			4-Bromofluorobenzene	SOLID	20	2.0450E+01			0.1328	ug/Kg	102.25	% Recovery	
2	LCS	S1005210088		0 0			Dibromofluoromethane	SOLID	20	1.9597E+01			0.1808	ug/Kg	97.985	% Recovery	
2	LCS	S1005210088		0 0			1,2-Dichloroethane-d4	SOLID	20	2.1077E+01			0.1916	ug/Kg	105.38	% Recovery	
2	LCS	S1005210088		0 0			Toluene-d8	SOLID	20	2.0959E+01			0.1714	ug/Kg	104.8	% Recovery	
2	LCS	S1005210088		0 0			2-Hexanone	SOLID	100	1.4286E+02			2.3642	ug/Kg	142.86	% Recovery	B
Sample Sequence 3																	
3	SAMPLE	S10V000378		0 0			1,1,1-Trichloroethane	SOLID	N/A	<7.6539E-02			0.076539	ug/Kg			U
3	SAMPLE	S10V000378		0 0			1,1,2-Trichloroethane	SOLID	N/A	<1.3794E-01			0.13794	ug/Kg			U
3	SAMPLE	S10V000378		0 0			1,1,2,2-Tetrachloroethane	SOLID	N/A	<1.7604E-01			0.17604	ug/Kg			U
3	SAMPLE	S10V000378		0 0			1,1-Dichloroethene	SOLID	N/A	<3.5208E-01			0.35208	ug/Kg			U
3	SAMPLE	S10V000378		0 0			1,2-Dichloroethane	SOLID	N/A	<4.4758E-02			0.044758	ug/Kg			U
3	SAMPLE	S10V000378		0 0			1-Butanol	SOLID	N/A	<8.5624E+00			8.5624	ug/Kg			U
3	SAMPLE	S10V000378		0 0			2-Hexanone	SOLID	N/A	9.4060E+00			1.9669	ug/Kg			BJb
3	SAMPLE	S10V000378		0 0			4-Methyl-2-pentanone	SOLID	N/A	<1.4210E+00			1.421	ug/Kg			Ub
3	SAMPLE	S10V000378		0 0			Acetone	SOLID	N/A	2.1483E+01			1.83	ug/Kg			Jab
3	SAMPLE	S10V000378		0 0			Benzene	SOLID	N/A	3.9470E-01			0.12263	ug/Kg			J
3	SAMPLE	S10V000378		0 0			Carbon Disulfide	SOLID	N/A	<1.3378E-01			0.13378	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Carbon Tetrachloride	SOLID	N/A	<7.7703E-02			0.077703	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Chloroform	SOLID	N/A	<1.0882E-01			0.10882	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Chlorobenzene	SOLID	N/A	<7.1880E-02			0.07188	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Ethylbenzene	SOLID	N/A	<8.9184E-02			0.089184	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Xylenes (total)	SOLID	N/A	<1.6905E-01			0.16905	ug/Kg			U
3	SAMPLE	S10V000378		0 0			2-Butanone	SOLID	N/A	<1.6343E+00			1.6343	ug/Kg			Ub

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LABCORE Completed Batch Report for Batch# 00019566

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000378		0 0			Methylene Chloride	SOLID	N/A	<5.3244E-02			0.053244	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Tetrachloroethene	SOLID	N/A	<9.1347E-02			0.091347	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Toluene	SOLID	N/A	3.2470E-01			0.066722	ug/Kg			J
3	SAMPLE	S10V000378		0 0			trans-1,3-Dichloropropene	SOLID	N/A	<2.2546E-01			0.22546	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Trichloroethene	SOLID	N/A	<1.0066E-01			0.10066	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Vinyl Chloride	SOLID	N/A	<1.4426E-01			0.14426	ug/Kg			U
3	SAMPLE	S10V000378		0 0			cis-Dichloroethylene	SOLID	N/A	<1.5108E-01			0.15108	ug/Kg			U
3	SAMPLE	S10V000378		0 0			trans-Dichloroethylene	SOLID	N/A	<2.5208E-01			0.25208	ug/Kg			U
3	SAMPLE	S10V000378		0 0			112Trichloro-122Trifluoroethan	SOLID	N/A	<9.6672E-02			0.096672	ug/Kg			U
3	SAMPLE	S10V000378		0 0			2-Nitropropane	SOLID	N/A	<4.8918E-01			0.48918	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Ethyl acetate	SOLID	N/A	<4.8852E-01			0.48852	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Diethyl ether	SOLID	N/A	<2.1314E-01			0.21314	ug/Kg			U
3	SAMPLE	S10V000378		0 0			Trichlorofluoromethane	SOLID	N/A	<7.8202E-02			0.078202	ug/Kg			U
3	SAMPLE	S10V000378		0 0			o-Xylene	SOLID	N/A	<7.6539E-02			0.076539	ug/Kg			U
3	SAMPLE	S10V000378		0 0			m,p-Xylene	SOLID	N/A	<1.3927E-01			0.13927	ug/Kg			U
3	SAMPLE	S10V000378		0 0			4-Bromofluorobenzene	SOLID	16.63893	1.7596E+01			0.11048	ug/Kg	105.75	% Recovery	
3	SAMPLE	S10V000378		0 0			Dibromofluoromethane	SOLID	16.63893	1.6001E+01			0.15042	ug/Kg	96.166	% Recovery	
3	SAMPLE	S10V000378		0 0			1,2-Dichloroethane-d4	SOLID	16.63893	1.6107E+01			0.1594	ug/Kg	96.803	% Recovery	
3	SAMPLE	S10V000378		0 0			Toluene-d8	SOLID	16.63893	1.6954E+01			0.1426	ug/Kg	101.89	% Recovery	
3	SAMPLE	S10V000378		0 0			m-Terphenyl	SOLID		23.949327				ug/Kg			JNT
3	SAMPLE	S10V000378		0 0			Unknown-1	SOLID		7.0397108				ug/Kg			JT
3	SAMPLE	S10V000378		0 0			Unknown-2	SOLID		1.8600789				ug/Kg			BJT
3	SAMPLE	S10V000378		0 0			Unknown-3	SOLID		2.2147396				ug/Kg			JT
Sample Sequence 4																	
4	BLNK	S1008110050		0 0			1,1,1-Trichloroethane	SOLID		<9.2000E-02			0.092	ug/Kg			U
4	BLNK	S1008110050		0 0			1,1,2-Trichloroethane	SOLID		<1.6580E-01			0.1658	ug/Kg			U
4	BLNK	S1008110050		0 0			1,1,2,2-Tetrachloroethane	SOLID		<2.1160E-01			0.2116	ug/Kg			U
4	BLNK	S1008110050		0 0			1,1-Dichloroethene	SOLID		<4.2320E-01			0.4232	ug/Kg			U
4	BLNK	S1008110050		0 0			1,2-Dichloroethane	SOLID		<5.3799E-02			0.053799	ug/Kg			U
4	BLNK	S1008110050		0 0			1-Butanol	SOLID		<1.0292E+01			10.292	ug/Kg			U
4	BLNK	S1008110050		0 0			4-Methyl-2-pentanone	SOLID		<1.7080E+00			1.708	ug/Kg			U
4	BLNK	S1008110050		0 0			Acetone	SOLID		<2.1996E+00			2.1996	ug/Kg			U
4	BLNK	S1008110050		0 0			Benzene	SOLID		<1.4740E-01			0.1474	ug/Kg			U
4	BLNK	S1008110050		0 0			Carbon Disulfide	SOLID		<1.6080E-01			0.1608	ug/Kg			U
4	BLNK	S1008110050		0 0			Carbon Tetrachloride	SOLID		<9.3400E-02			0.0934	ug/Kg			U
4	BLNK	S1008110050		0 0			Chloroform	SOLID		<1.3080E-01			0.1308	ug/Kg			U
4	BLNK	S1008110050		0 0			Chlorobenzene	SOLID		<8.6400E-02			0.0864	ug/Kg			U
4	BLNK	S1008110050		0 0			Ethylbenzene	SOLID		<1.0720E-01			0.1072	ug/Kg			U
4	BLNK	S1008110050		0 0			Xylenes (total)	SOLID		<2.0320E-01			0.2032	ug/Kg			U
4	BLNK	S1008110050		0 0			2-Butanone	SOLID		<1.9644E+00			1.9644	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019566

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
4	BLNK	S1008110050		0 0			Methylene Chloride	SOLID		<6.3999E-02			0.063999	ug/Kg			U
4	BLNK	S1008110050		0 0			Tetrachloroethene	SOLID		<1.0980E-01			0.1098	ug/Kg			U
4	BLNK	S1008110050		0 0			Toluene	SOLID		1.7020E-01			0.080199	ug/Kg			J
4	BLNK	S1008110050		0 0			trans-1,3-Dichloropropene	SOLID		<2.7100E-01			0.271	ug/Kg			U
4	BLNK	S1008110050		0 0			Trichloroethene	SOLID		<1.2100E-01			0.121	ug/Kg			U
4	BLNK	S1008110050		0 0			Vinyl Chloride	SOLID		<1.7340E-01			0.1734	ug/Kg			U
4	BLNK	S1008110050		0 0			cis-Dichloroethylene	SOLID		<1.8160E-01			0.1816	ug/Kg			U
4	BLNK	S1008110050		0 0			trans-Dichloroethylene	SOLID		<3.0300E-01			0.303	ug/Kg			U
4	BLNK	S1008110050		0 0			112Trichloro-122Trifluoroethan	SOLID		<1.1620E-01			0.1162	ug/Kg			U
4	BLNK	S1008110050		0 0			2-Nitropropane	SOLID		<5.8800E-01			0.588	ug/Kg			U
4	BLNK	S1008110050		0 0			Ethyl acetate	SOLID		<5.8720E-01			0.5872	ug/Kg			U
4	BLNK	S1008110050		0 0			Diethyl ether	SOLID		<2.5620E-01			0.2562	ug/Kg			U
4	BLNK	S1008110050		0 0			Trichlorofluoromethane	SOLID		<9.3999E-02			0.093999	ug/Kg			U
4	BLNK	S1008110050		0 0			o-Xylene	SOLID		<9.2000E-02			0.092	ug/Kg			U
4	BLNK	S1008110050		0 0			m,p-Xylene	SOLID		<1.6740E-01			0.1674	ug/Kg			U
4	BLNK	S1008110050		0 0			4-Bromofluorobenzene	SOLID	20	1.8450E+01			0.1328	ug/Kg	92.25	% Recovery	
4	BLNK	S1008110050		0 0			Dibromofluoromethane	SOLID	20	1.8656E+01			0.1808	ug/Kg	93.28	% Recovery	
4	BLNK	S1008110050		0 0			1,2-Dichloroethane-d4	SOLID	20	1.9680E+01			0.1916	ug/Kg	98.4	% Recovery	
4	BLNK	S1008110050		0 0			Toluene-d8	SOLID	20	1.9297E+01			0.1714	ug/Kg	96.485	% Recovery	
4	BLNK	S1008110050		0 0			2-Hexanone	SOLID		3.1700E+00			2.3642	ug/Kg			J
Sample Sequence 5																	
5	LCS	S1008110051		0 0			1,1-Dichloroethene	SOLID	20	1.8929E+01			0.4232	ug/Kg	94.645	% Recovery	
5	LCS	S1008110051		0 0			1-Butanol	SOLID	200	1.7879E+02			10.292	ug/Kg	89.395	% Recovery	
5	LCS	S1008110051		0 0			4-Methyl-2-pentanone	SOLID	100	1.2818E+02			1.708	ug/Kg	128.18	% Recovery	
5	LCS	S1008110051		0 0			Acetone	SOLID	100	1.4022E+02			2.1996	ug/Kg	140.22	% Recovery	
5	LCS	S1008110051		0 0			Benzene	SOLID	20	1.9149E+01			0.1474	ug/Kg	95.745	% Recovery	
5	LCS	S1008110051		0 0			Chlorobenzene	SOLID	20	1.9261E+01			0.0864	ug/Kg	96.305	% Recovery	
5	LCS	S1008110051		0 0			2-Butanone	SOLID	100	1.1241E+02			1.9644	ug/Kg	112.41	% Recovery	
5	LCS	S1008110051		0 0			Toluene	SOLID	20	1.9334E+01			0.080199	ug/Kg	96.67	% Recovery	
5	LCS	S1008110051		0 0			Trichloroethene	SOLID	20	1.7992E+01			0.121	ug/Kg	89.96	% Recovery	
5	LCS	S1008110051		0 0			4-Bromofluorobenzene	SOLID	20	1.9677E+01			0.1328	ug/Kg	98.385	% Recovery	
5	LCS	S1008110051		0 0			Dibromofluoromethane	SOLID	20	2.0271E+01			0.1808	ug/Kg	101.36	% Recovery	
5	LCS	S1008110051		0 0			1,2-Dichloroethane-d4	SOLID	20	2.0876E+01			0.1916	ug/Kg	104.38	% Recovery	
5	LCS	S1008110051		0 0			Toluene-d8	SOLID	20	2.0000E+01			0.1714	ug/Kg	100	% Recovery	
5	LCS	S1008110051		0 0			2-Hexanone	SOLID	100	1.3501E+02			2.3642	ug/Kg	135.01	% Recovery	B
Sample Sequence 6																	
6	SAMPLE	S10V000128		0 0			1,1,1-Trichloroethane	SOLID	N/A	<8.8803E-02			0.088803	ug/Kg			U
6	SAMPLE	S10V000128		0 0			1,1,2-Trichloroethane	SOLID	N/A	<1.6004E-01			0.16004	ug/Kg			U
6	SAMPLE	S10V000128		0 0			1,1,2,2-Tetrachloroethane	SOLID	N/A	<2.0425E-01			0.20425	ug/Kg			U
6	SAMPLE	S10V000128		0 0			1,1-Dichloroethene	SOLID	N/A	<4.0849E-01			0.40849	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019566

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
6	SAMPLE	S10V000128		0 0			1,2-Dichloroethane	SOLID	N/A	<5.1930E-02			0.05193	ug/Kg			U
6	SAMPLE	S10V000128		0 0			1-Butanol	SOLID	N/A	<9.9344E+00			9.9344	ug/Kg			U
6	SAMPLE	S10V000128		0 0			4-Methyl-2-pentanone	SOLID	N/A	<1.6486E+00			1.6486	ug/Kg			Ub
6	SAMPLE	S10V000128		0 0			Acetone	SOLID	N/A	<2.1232E+00			2.1232	ug/Kg			Uab
6	SAMPLE	S10V000128		0 0			Benzene	SOLID	N/A	<1.4228E-01			0.14228	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Carbon Disulfide	SOLID	N/A	<1.5521E-01			0.15521	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Carbon Tetrachloride	SOLID	N/A	<9.0154E-02			0.090154	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Chloroform	SOLID	N/A	<1.2625E-01			0.12625	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Chlorobenzene	SOLID	N/A	<8.3397E-02			0.083397	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Ethylbenzene	SOLID	N/A	<1.0347E-01			0.10347	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Xylenes (total)	SOLID	N/A	<1.9614E-01			0.19614	ug/Kg			U
6	SAMPLE	S10V000128		0 0			2-Butanone	SOLID	N/A	<1.8961E+00			1.8961	ug/Kg			Ub
6	SAMPLE	S10V000128		0 0			Methylene Chloride	SOLID	N/A	<6.1776E-02			0.061776	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Tetrachloroethene	SOLID	N/A	<1.0598E-01			0.10598	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Toluene	SOLID	N/A	5.9230E-01			0.077413	ug/Kg			BJ
6	SAMPLE	S10V000128		0 0			trans-1,3-Dichloropropene	SOLID	N/A	<2.6158E-01			0.26158	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Trichloroethene	SOLID	N/A	<1.1680E-01			0.1168	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Vinyl Chloride	SOLID	N/A	<1.6737E-01			0.16737	ug/Kg			U
6	SAMPLE	S10V000128		0 0			cis-Dichloroethylene	SOLID	N/A	<1.7529E-01			0.17529	ug/Kg			U
6	SAMPLE	S10V000128		0 0			trans-Dichloroethylene	SOLID	N/A	<2.9247E-01			0.29247	ug/Kg			U
6	SAMPLE	S10V000128		0 0			112Trichloro-122Trifluoroethan	SOLID	N/A	<1.1216E-01			0.11216	ug/Kg			U
6	SAMPLE	S10V000128		0 0			2-Nitropropane	SOLID	N/A	<5.6757E-01			0.56757	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Ethyl acetate	SOLID	N/A	<5.6680E-01			0.5668	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Diethyl ether	SOLID	N/A	<2.4730E-01			0.2473	ug/Kg			U
6	SAMPLE	S10V000128		0 0			Trichlorofluoromethane	SOLID	N/A	<9.0733E-02			0.090733	ug/Kg			U
6	SAMPLE	S10V000128		0 0			o-Xylene	SOLID	N/A	<8.8803E-02			0.088803	ug/Kg			U
6	SAMPLE	S10V000128		0 0			m,p-Xylene	SOLID	N/A	<1.6158E-01			0.16158	ug/Kg			U
6	SAMPLE	S10V000128		0 0			4-Bromofluorobenzene	SOLID	19.30501	1.9880E+01			0.12818	ug/Kg	102.98	% Recovery	
6	SAMPLE	S10V000128		0 0			Dibromofluoromethane	SOLID	19.30501	1.9929E+01			0.17452	ug/Kg	103.23	% Recovery	
6	SAMPLE	S10V000128		0 0			1,2-Dichloroethane-d4	SOLID	19.30501	2.1545E+01			0.18494	ug/Kg	111.6	% Recovery	
6	SAMPLE	S10V000128		0 0			Toluene-d8	SOLID	19.30501	1.8894E+01			0.16544	ug/Kg	97.871	% Recovery	
6	SAMPLE	S10V000128		0 0			2-Hexanone	SOLID	N/A	2.5180E+00			2.282	ug/Kg			BJb
Sample Sequence 7																	
7	SAMPLE	S10V000142		0 0			1,1,1-Trichloroethane	SOLID	N/A	<9.0909E-02			0.090909	ug/Kg			U
7	SAMPLE	S10V000142		0 0			1,1,2-Trichloroethane	SOLID	N/A	<1.6383E-01			0.16383	ug/Kg			U
7	SAMPLE	S10V000142		0 0			1,1,2,2-Tetrachloroethane	SOLID	N/A	<2.0909E-01			0.20909	ug/Kg			U
7	SAMPLE	S10V000142		0 0			1,1-Dichloroethene	SOLID	N/A	<4.1818E-01			0.41818	ug/Kg			U
7	SAMPLE	S10V000142		0 0			1,2-Dichloroethane	SOLID	N/A	<5.3162E-02			0.053162	ug/Kg			U
7	SAMPLE	S10V000142		0 0			1-Butanol	SOLID	N/A	<1.0170E+01			10.17	ug/Kg			U
7	SAMPLE	S10V000142		0 0			4-Methyl-2-pentanone	SOLID	N/A	<1.6877E+00			1.6877	ug/Kg			Ub

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LABCORE Completed Batch Report for Batch# 00019566

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	SAMPLE	S10V000142		0 0			Acetone	SOLID	N/A	<2.1735E+00			2.1735	ug/Kg			Uab
7	SAMPLE	S10V000142		0 0			Benzene	SOLID	N/A	<1.4565E-01			0.14565	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Carbon Disulfide	SOLID	N/A	<1.5889E-01			0.15889	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Carbon Tetrachloride	SOLID	N/A	<9.2292E-02			0.092292	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Chloroform	SOLID	N/A	<1.2925E-01			0.12925	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Chlorobenzene	SOLID	N/A	<8.5375E-02			0.085375	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Ethylbenzene	SOLID	N/A	<1.0593E-01			0.10593	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Xylenes (total)	SOLID	N/A	<2.0079E-01			0.20079	ug/Kg			U
7	SAMPLE	S10V000142		0 0			2-Butanone	SOLID	N/A	<1.9411E+00			1.9411	ug/Kg			Ub
7	SAMPLE	S10V000142		0 0			Methylene Chloride	SOLID	N/A	<6.3241E-02			0.063241	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Tetrachloroethene	SOLID	N/A	<1.0850E-01			0.1085	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Toluene	SOLID	N/A	4.9320E-01			0.079249	ug/Kg			BJ
7	SAMPLE	S10V000142		0 0			trans-1,3-Dichloropropene	SOLID	N/A	<2.6779E-01			0.26779	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Trichloroethene	SOLID	N/A	<1.1956E-01			0.11956	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Vinyl Chloride	SOLID	N/A	<1.7134E-01			0.17134	ug/Kg			U
7	SAMPLE	S10V000142		0 0			cis-Dichloroethylene	SOLID	N/A	<1.7945E-01			0.17945	ug/Kg			U
7	SAMPLE	S10V000142		0 0			trans-Dichloroethylene	SOLID	N/A	<2.9941E-01			0.29941	ug/Kg			U
7	SAMPLE	S10V000142		0 0			112Trichloro-122Trifluoroethan	SOLID	N/A	<1.1482E-01			0.11482	ug/Kg			U
7	SAMPLE	S10V000142		0 0			2-Nitropropane	SOLID	N/A	<5.8103E-01			0.58103	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Ethyl acetate	SOLID	N/A	<5.8024E-01			0.58024	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Diethyl ether	SOLID	N/A	<2.5316E-01			0.25316	ug/Kg			U
7	SAMPLE	S10V000142		0 0			Trichlorofluoromethane	SOLID	N/A	<9.2885E-02			0.092885	ug/Kg			U
7	SAMPLE	S10V000142		0 0			o-Xylene	SOLID	N/A	<9.0909E-02			0.090909	ug/Kg			U
7	SAMPLE	S10V000142		0 0			m,p-Xylene	SOLID	N/A	<1.6542E-01			0.16542	ug/Kg			U
7	SAMPLE	S10V000142		0 0			4-Bromofluorobenzene	SOLID	19.76284	2.1060E+01			0.13122	ug/Kg	106.56	% Recovery	
7	SAMPLE	S10V000142		0 0			Dibromofluoromethane	SOLID	19.76284	1.9714E+01			0.17866	ug/Kg	99.753	% Recovery	
7	SAMPLE	S10V000142		0 0			1,2-Dichloroethane-d4	SOLID	19.76284	2.2552E+01			0.18933	ug/Kg	114.11	% Recovery	
7	SAMPLE	S10V000142		0 0			Toluene-d8	SOLID	19.76284	2.0951E+01			0.16937	ug/Kg	106.01	% Recovery	
Sample Sequence 8																	
8	MS	S1005210090	S10V000378	0 0			1,1-Dichloroethene	SOLID	18.4162	2.0219E+01			0.38969	ug/Kg	109.79	% Recovery	
8	MS	S1005210090	S10V000378	0 0			1-Butanol	SOLID	184.162	2.1116E+02			9.477	ug/Kg	114.66	% Recovery	
8	MS	S1005210090	S10V000378	0 0			4-Methyl-2-pentanone	SOLID	92.08103	1.9646E+02			1.5727	ug/Kg	213.36	% Recovery	
8	MS	S1005210090	S10V000378	0 0			Acetone	SOLID	92.08103	1.8280E+02			2.0254	ug/Kg	175.19	% Recovery	
8	MS	S1005210090	S10V000378	0 0			Benzene	SOLID	18.4162	1.8435E+01			0.13573	ug/Kg	97.959	% Recovery	
8	MS	S1005210090	S10V000378	0 0			Chlorobenzene	SOLID	18.4162	1.8054E+01			0.079558	ug/Kg	98.033	% Recovery	
8	MS	S1005210090	S10V000378	0 0			2-Butanone	SOLID	92.08103	1.4373E+02			1.8088	ug/Kg	156.09	% Recovery	
8	MS	S1005210090	S10V000378	0 0			Toluene	SOLID	18.4162	1.9248E+01			0.073848	ug/Kg	102.75	% Recovery	
8	MS	S1005210090	S10V000378	0 0			Trichloroethene	SOLID	18.4162	1.5301E+01			0.11142	ug/Kg	83.084	% Recovery	
8	MS	S1005210090	S10V000378	0 0			4-Bromofluorobenzene	SOLID	18.4162	2.0514E+01			0.12228	ug/Kg	111.39	% Recovery	
8	MS	S1005210090	S10V000378	0 0			Dibromofluoromethane	SOLID	18.4162	1.9958E+01			0.16648	ug/Kg	108.37	% Recovery	
8	MS	S1005210090	S10V000378	0 0			1,2-Dichloroethane-d4	SOLID	18.4162	2.3347E+01			0.17643	ug/Kg	126.77	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019566

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
8	MS	S1005210090	S10V000378	0 0			Toluene-d8	SOLID	18.4162	1.9378E+01			0.15783	ug/Kg	105.22	% Recovery	
8	MS	S1005210090	S10V000378	0 0			2-Hexanone	SOLID	92.08103	2.0249E+02			2.177	ug/Kg	209.689226	% Recovery	B
Sample Sequence 9																	
9	MSD	S1005210091	S10V000378	0 0			1,1-Dichloroethene	SOLID	23.47417	2.8246E+01			0.49671	ug/Kg	120.33	% Recovery	
															9.1604	% RPD	
9	MSD	S1005210091	S10V000378	0 0			1-Butanol	SOLID	234.7417	2.8014E+02			12.08	ug/Kg	119.34	% Recovery	
															4	% RPD	
9	MSD	S1005210091	S10V000378	0 0			4-Methyl-2-pentanone	SOLID	117.3708	2.5202E+02			2.0047	ug/Kg	214.72	% Recovery	
															0.63540	% RPD	
9	MSD	S1005210091	S10V000378	0 0			Acetone	SOLID	117.3708	2.4121E+02			2.5817	ug/Kg	187.21	% Recovery	
															6.6336	% RPD	
9	MSD	S1005210091	S10V000378	0 0			Benzene	SOLID	23.47417	2.4740E+01			0.173	ug/Kg	103.71	% Recovery	
															5.7034	% RPD	
9	MSD	S1005210091	S10V000378	0 0			Chlorobenzene	SOLID	23.47417	2.3484E+01			0.10141	ug/Kg	100.04	% Recovery	
															2.0265	% RPD	
9	MSD	S1005210091	S10V000378	0 0			2-Butanone	SOLID	117.3708	1.8824E+02			2.3056	ug/Kg	160.38	% Recovery	
															2.7112	% RPD	
9	MSD	S1005210091	S10V000378	0 0			Toluene	SOLID	23.47417	2.5454E+01			0.094131	ug/Kg	107.05	% Recovery	
															4.0991	% RPD	
9	MSD	S1005210091	S10V000378	0 0			Trichloroethene	SOLID	23.47417	2.0382E+01			0.14202	ug/Kg	86.827	% Recovery	
															4.4058	% RPD	
9	MSD	S1005210091	S10V000378	0 0			4-Bromofluorobenzene	SOLID	23.47417	2.7266E+01			0.15587	ug/Kg	116.15	% Recovery	
															4.1839	% RPD	
9	MSD	S1005210091	S10V000378	0 0			Dibromofluoromethane	SOLID	23.47417	2.5735E+01			0.21221	ug/Kg	109.63	% Recovery	
															1.1560	% RPD	
9	MSD	S1005210091	S10V000378	0 0			1,2-Dichloroethane-d4	SOLID	23.47417	3.0356E+01			0.22488	ug/Kg	129.32	% Recovery	
															1.9915	% RPD	
9	MSD	S1005210091	S10V000378	0 0			Toluene-d8	SOLID	23.47417	2.5704E+01			0.20117	ug/Kg	109.5	% Recovery	
															3.9866	% RPD	
9	MSD	S1005210091	S10V000378	0 0			2-Hexanone	SOLID	117.3708	2.6786E+02			2.7749	ug/Kg	220.202980	% Recovery	B
															4.8913	% RPD	

Comments Section:

Data Flagger Status:
Flagging Completed

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019566

Final Page for Batch# 00019566

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019566

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005210087	BLNK				
2	S1005210088	LCS				
3	S10V000378	SAMPLE		20100213	B23KT3	C Farm WMC 2010-1
4	S1008110050	BLNK				
5	S1008110051	LCS				
6	S10V000128	SAMPLE		20100064	B23TK4	C Farm WMC 2010-1
7	S10V000142	SAMPLE		20100064	B23TK7	C Farm WMC 2010-1
8	S1005210090	MS	S10V000378			
9	S1005210091	MSD	S10V000378			

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020082

Analyst: Getz, Andrew

Book#:

Instrument: GCMSD3 (OHURA) for VOA

Method: VOA 222S #2, LA-523-118 Rev/Mod G-0-A

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: C Farm WMC 2010-1, VOA, Solid

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1006150013		0 0			1,1,1-Trichloroethane	SOLID		<9.2000E-02			0.092	ug/Kg			U
1	BLNK	S1006150013		0 0			1,1,2-Trichloroethane	SOLID		<1.6580E-01			0.1658	ug/Kg			U
1	BLNK	S1006150013		0 0			1,1,2,2-Tetrachloroethane	SOLID		<2.1160E-01			0.2116	ug/Kg			U
1	BLNK	S1006150013		0 0			1,1-Dichloroethene	SOLID		<4.2320E-01			0.4232	ug/Kg			U
1	BLNK	S1006150013		0 0			1,2-Dichloroethane	SOLID		<5.3799E-02			0.053799	ug/Kg			U
1	BLNK	S1006150013		0 0			1-Butanol	SOLID		<1.0292E+01			10.292	ug/Kg			U
1	BLNK	S1006150013		0 0			4-Methyl-2-pentanone	SOLID		<1.7080E+00			1.708	ug/Kg			U
1	BLNK	S1006150013		0 0			Acetone	SOLID		<2.1996E+00			2.1996	ug/Kg			U
1	BLNK	S1006150013		0 0			Benzene	SOLID		<1.4740E-01			0.1474	ug/Kg			U
1	BLNK	S1006150013		0 0			Carbon Disulfide	SOLID		<1.6080E-01			0.1608	ug/Kg			U
1	BLNK	S1006150013		0 0			Carbon Tetrachloride	SOLID		<9.3400E-02			0.0934	ug/Kg			U
1	BLNK	S1006150013		0 0			Chloroform	SOLID		<1.3080E-01			0.1308	ug/Kg			U
1	BLNK	S1006150013		0 0			Chlorobenzene	SOLID		<8.6400E-02			0.0864	ug/Kg			U
1	BLNK	S1006150013		0 0			Ethylbenzene	SOLID		<1.0720E-01			0.1072	ug/Kg			U
1	BLNK	S1006150013		0 0			Xylenes (total)	SOLID		<2.0320E-01			0.2032	ug/Kg			U
1	BLNK	S1006150013		0 0			2-Butanone	SOLID		<1.9644E+00			1.9644	ug/Kg			U
1	BLNK	S1006150013		0 0			Methylene Chloride	SOLID		<6.3999E-02			0.063999	ug/Kg			U
1	BLNK	S1006150013		0 0			Tetrachloroethene	SOLID		<1.0980E-01			0.1098	ug/Kg			U
1	BLNK	S1006150013		0 0			Toluene	SOLID		1.8320E-01			0.080199	ug/Kg			J
1	BLNK	S1006150013		0 0			trans-1,3-Dichloropropene	SOLID		<2.7100E-01			0.271	ug/Kg			U
1	BLNK	S1006150013		0 0			Trichloroethene	SOLID		<1.2100E-01			0.121	ug/Kg			U
1	BLNK	S1006150013		0 0			Vinyl Chloride	SOLID		<1.7340E-01			0.1734	ug/Kg			U
1	BLNK	S1006150013		0 0			cis-Dichloroethylene	SOLID		<1.8160E-01			0.1816	ug/Kg			U
1	BLNK	S1006150013		0 0			trans-Dichloroethylene	SOLID		<3.0300E-01			0.303	ug/Kg			U
1	BLNK	S1006150013		0 0			112Trichloro-122Trifluoroethan	SOLID		<1.1620E-01			0.1162	ug/Kg			U
1	BLNK	S1006150013		0 0			2-Nitropropane	SOLID		<5.8800E-01			0.588	ug/Kg			U
1	BLNK	S1006150013		0 0			Ethyl acetate	SOLID		<5.8720E-01			0.5872	ug/Kg			U
1	BLNK	S1006150013		0 0			Diethyl ether	SOLID		<2.5620E-01			0.2562	ug/Kg			U
1	BLNK	S1006150013		0 0			Trichlorofluoromethane	SOLID		<9.3999E-02			0.093999	ug/Kg			U

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020082

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1006150013		0 0			o-Xylene	SOLID		<9.2000E-02			0.092	ug/Kg			U
1	BLNK	S1006150013		0 0			m,p-Xylene	SOLID		1.7230E-01			0.1674	ug/Kg			J
1	BLNK	S1006150013		0 0			4-Bromofluorobenzene	SOLID	20	1.8108E+01			0.1328	ug/Kg	90.54	% Recovery	
1	BLNK	S1006150013		0 0			Dibromofluoromethane	SOLID	20	1.8543E+01			0.1808	ug/Kg	92.715	% Recovery	
1	BLNK	S1006150013		0 0			1,2-Dichloroethane-d4	SOLID	20	1.9649E+01			0.1916	ug/Kg	98.245	% Recovery	
1	BLNK	S1006150013		0 0			Toluene-d8	SOLID	20	1.9927E+01			0.1714	ug/Kg	99.635	% Recovery	
Sample Sequence 2																	
2	LCS	S1006150014		0 0			1,1-Dichloroethene	SOLID	20	1.8460E+01			0.4232	ug/Kg	92.3	% Recovery	
2	LCS	S1006150014		0 0			1-Butanol	SOLID	200	1.9805E+02			10.292	ug/Kg	99.025	% Recovery	
2	LCS	S1006150014		0 0			4-Methyl-2-pentanone	SOLID	100	1.2554E+02			1.708	ug/Kg	125.54	% Recovery	
2	LCS	S1006150014		0 0			Acetone	SOLID	100	8.5963E+01			2.1996	ug/Kg	85.963	% Recovery	
2	LCS	S1006150014		0 0			Benzene	SOLID	20	1.8169E+01			0.1474	ug/Kg	90.845	% Recovery	
2	LCS	S1006150014		0 0			Chlorobenzene	SOLID	20	1.8816E+01			0.0864	ug/Kg	94.08	% Recovery	
2	LCS	S1006150014		0 0			2-Butanone	SOLID	100	1.0672E+02			1.9644	ug/Kg	106.72	% Recovery	
2	LCS	S1006150014		0 0			Toluene	SOLID	20	1.8896E+01			0.080199	ug/Kg	94.48	% Recovery	B
2	LCS	S1006150014		0 0			Trichloroethene	SOLID	20	1.7362E+01			0.121	ug/Kg	86.81	% Recovery	
2	LCS	S1006150014		0 0			4-Bromofluorobenzene	SOLID	20	1.8529E+01			0.1328	ug/Kg	92.645	% Recovery	
2	LCS	S1006150014		0 0			Dibromofluoromethane	SOLID	20	1.9257E+01			0.1808	ug/Kg	96.285	% Recovery	
2	LCS	S1006150014		0 0			1,2-Dichloroethane-d4	SOLID	20	1.9978E+01			0.1916	ug/Kg	99.89	% Recovery	
2	LCS	S1006150014		0 0			Toluene-d8	SOLID	20	2.0689E+01			0.1714	ug/Kg	103.44	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000374		0 0			1,1,1-Trichloroethane	SOLID	N/A	<8.4095E-02			0.084095	ug/Kg			U
3	SAMPLE	S10V000374		0 0			1,1,2-Trichloroethane	SOLID	N/A	<1.5155E-01			0.15155	ug/Kg			U
3	SAMPLE	S10V000374		0 0			1,1,2,2-Tetrachloroethane	SOLID	N/A	<1.9342E-01			0.19342	ug/Kg			U
3	SAMPLE	S10V000374		0 0			1,1-Dichloroethene	SOLID	N/A	<3.8684E-01			0.38684	ug/Kg			U
3	SAMPLE	S10V000374		0 0			1,2-Dichloroethane	SOLID	N/A	<4.9177E-02			0.049177	ug/Kg			U
3	SAMPLE	S10V000374		0 0			1-Butanol	SOLID	N/A	<9.4077E+00			9.4077	ug/Kg			U
3	SAMPLE	S10V000374		0 0			4-Methyl-2-pentanone	SOLID	N/A	<1.5612E+00			1.5612	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Acetone	SOLID	N/A	7.2500E+01			2.0106	ug/Kg			c
3	SAMPLE	S10V000374		0 0			Benzene	SOLID	N/A	<1.3473E-01			0.13473	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Carbon Disulfide	SOLID	N/A	<1.4698E-01			0.14698	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Carbon Tetrachloride	SOLID	N/A	<8.5374E-02			0.085374	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Chloroform	SOLID	N/A	<1.1956E-01			0.11956	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Chlorobenzene	SOLID	N/A	<7.8976E-02			0.078976	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Ethylbenzene	SOLID	N/A	<9.7989E-02			0.097989	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Xylenes (total)	SOLID	N/A	<1.8574E-01			0.18574	ug/Kg			U
3	SAMPLE	S10V000374		0 0			2-Butanone	SOLID	N/A	<1.7956E+00			1.7956	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Methylene Chloride	SOLID	N/A	<5.8500E-02			0.0585	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Tetrachloroethene	SOLID	N/A	<1.0036E-01			0.10036	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Toluene	SOLID	N/A	3.6050E-01			0.073308	ug/Kg			BJ
3	SAMPLE	S10V000374		0 0			trans-1,3-Dichloropropene	SOLID	N/A	<2.4771E-01			0.24771	ug/Kg			U

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020082

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000374		0 0			Trichloroethene	SOLID	N/A	<1.1060E-01			0.1106	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Vinyl Chloride	SOLID	N/A	<1.5850E-01			0.1585	ug/Kg			U
3	SAMPLE	S10V000374		0 0			cis-Dichloroethylene	SOLID	N/A	<1.6600E-01			0.166	ug/Kg			U
3	SAMPLE	S10V000374		0 0			trans-Dichloroethylene	SOLID	N/A	<2.7696E-01			0.27696	ug/Kg			U
3	SAMPLE	S10V000374		0 0			112Trichloro-122Trifluoroethan	SOLID	N/A	<1.0622E-01			0.10622	ug/Kg			U
3	SAMPLE	S10V000374		0 0			2-Nitropropane	SOLID	N/A	<5.3748E-01			0.53748	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Ethyl acetate	SOLID	N/A	<5.3674E-01			0.53674	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Diethyl ether	SOLID	N/A	<2.3419E-01			0.23419	ug/Kg			U
3	SAMPLE	S10V000374		0 0			Trichlorofluoromethane	SOLID	N/A	<8.5923E-02			0.085923	ug/Kg			U
3	SAMPLE	S10V000374		0 0			o-Xylene	SOLID	N/A	<8.4095E-02			0.084095	ug/Kg			U
3	SAMPLE	S10V000374		0 0			m,p-Xylene	SOLID	N/A	<1.5302E-01			0.15302	ug/Kg			U
3	SAMPLE	S10V000374		0 0			4-Bromofluorobenzene	SOLID	18.28153	1.5840E+01			0.12139	ug/Kg	86.645	% Recovery	
3	SAMPLE	S10V000374		0 0			Dibromofluoromethane	SOLID	18.28153	1.6795E+01			0.16526	ug/Kg	91.869	% Recovery	
3	SAMPLE	S10V000374		0 0			1,2-Dichloroethane-d4	SOLID	18.28153	1.7579E+01			0.17514	ug/Kg	96.157	% Recovery	
3	SAMPLE	S10V000374		0 0			Toluene-d8	SOLID	18.28153	1.7661E+01			0.15667	ug/Kg	96.606	% Recovery	
3	SAMPLE	S10V000374		0 0			Unknown-1	SOLID		2.9196138				ug/Kg			JT
Sample Sequence 4																	
4	MS	S1006150016	S10V000374	0 0			1,1-Dichloroethene	SOLID	19.84126	1.9186E+01			0.41984	ug/Kg	96.697	% Recovery	
4	MS	S1006150016	S10V000374	0 0			1-Butanol	SOLID	198.4126	2.3900E+02			10.21	ug/Kg	120.46	% Recovery	
4	MS	S1006150016	S10V000374	0 0			4-Methyl-2-pentanone	SOLID	99.20634	1.3721E+02			1.6944	ug/Kg	138.31	% Recovery	
4	MS	S1006150016	S10V000374	0 0			Acetone	SOLID	99.20634	1.6744E+02			2.1821	ug/Kg	95.7	% Recovery	
4	MS	S1006150016	S10V000374	0 0			Benzene	SOLID	19.84126	1.8685E+01			0.14623	ug/Kg	94.172	% Recovery	
4	MS	S1006150016	S10V000374	0 0			Chlorobenzene	SOLID	19.84126	1.9452E+01			0.085714	ug/Kg	98.038	% Recovery	
4	MS	S1006150016	S10V000374	0 0			2-Butanone	SOLID	99.20634	1.1616E+02			1.9488	ug/Kg	117.09	% Recovery	
4	MS	S1006150016	S10V000374	0 0			Toluene	SOLID	19.84126	1.9743E+01			0.079563	ug/Kg	97.688	% Recovery	
4	MS	S1006150016	S10V000374	0 0			Trichloroethene	SOLID	19.84126	1.8016E+01			0.12004	ug/Kg	90.801	% Recovery	
4	MS	S1006150016	S10V000374	0 0			4-Bromofluorobenzene	SOLID	19.84126	1.8253E+01			0.13175	ug/Kg	91.995	% Recovery	
4	MS	S1006150016	S10V000374	0 0			Dibromofluoromethane	SOLID	19.84126	1.9628E+01			0.17936	ug/Kg	98.925	% Recovery	
4	MS	S1006150016	S10V000374	0 0			1,2-Dichloroethane-d4	SOLID	19.84126	2.1349E+01			0.19008	ug/Kg	107.6	% Recovery	
4	MS	S1006150016	S10V000374	0 0			Toluene-d8	SOLID	19.84126	2.0956E+01			0.17004	ug/Kg	105.62	% Recovery	
Sample Sequence 5																	
5	MSD	S1006150017	S10V000374	0 0			1,1-Dichloroethene	SOLID	18.51851	1.7607E+01			0.39185	ug/Kg	95.078	% Recovery	
															1.6884	% RPD	
5	MSD	S1006150017	S10V000374	0 0			1-Butanol	SOLID	185.1851	2.2538E+02			9.5296	ug/Kg	121.71	% Recovery	
															1.0323	% RPD	
5	MSD	S1006150017	S10V000374	0 0			4-Methyl-2-pentanone	SOLID	92.59259	1.3322E+02			1.5815	ug/Kg	143.88	% Recovery	
															3.9477	% RPD	
5	MSD	S1006150017	S10V000374	0 0			Acetone	SOLID	92.59259	1.3417E+02			2.0367	ug/Kg	66.604	% Recovery	
															35.854	% RPD	
5	MSD	S1006150017	S10V000374	0 0			Benzene	SOLID	18.51851	1.7512E+01			0.13648	ug/Kg	94.565	% Recovery	
															0.41645	% RPD	

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LABCORE Completed Batch Report for Batch# 00020082

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
5	MSD	S1006150017	S10V000374	0 0			Chlorobenzene	SOLID	18.51851	1.7826E+01			0.08	ug/Kg	96.26	% Recovery	
															1.8302	% RPD	
5	MSD	S1006150017	S10V000374	0 0			2-Butanone	SOLID	92.59259	1.1592E+02			1.8189	ug/Kg	125.19	% Recovery	
															6.6865	% RPD	
5	MSD	S1006150017	S10V000374	0 0			Toluene	SOLID	18.51851	1.8070E+01			0.074259	ug/Kg	95.631	% Recovery	
															2.1281	% RPD	
5	MSD	S1006150017	S10V000374	0 0			Trichloroethene	SOLID	18.51851	1.6682E+01			0.11204	ug/Kg	90.083	% Recovery	
															0.79388	% RPD	
5	MSD	S1006150017	S10V000374	0 0			4-Bromofluorobenzene	SOLID	18.51851	1.6741E+01			0.12296	ug/Kg	90.401	% Recovery	
															1.7478	% RPD	
5	MSD	S1006150017	S10V000374	0 0			Dibromofluoromethane	SOLID	18.51851	1.8436E+01			0.16741	ug/Kg	99.554	% Recovery	
															0.63382	% RPD	
5	MSD	S1006150017	S10V000374	0 0			1,2-Dichloroethane-d4	SOLID	18.51851	1.9744E+01			0.17741	ug/Kg	106.62	% Recovery	
															0.91495	% RPD	
5	MSD	S1006150017	S10V000374	0 0			Toluene-d8	SOLID	18.51851	1.9122E+01			0.1587	ug/Kg	103.26	% Recovery	
															2.2597	% RPD	

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00020082

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020082

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006150013	BLNK				
2	S1006150014	LCS				
3	S10V000374	SAMPLE		20100213	B23KR1	C Farm WMC 2010-1
4	S1006150016	MS	S10V000374			
5	S1006150017	MSD	S10V000374			

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

17960

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100422_CFARM2

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	CCB	109	120	121	113	0
02	LCS	105	116	116	112	0
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(77-129)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(73-140)
SMC3 (TOL)	= Toluene-d8	(70-126)
OTHER(BFB)	= Bromofluorobenzene	(79-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100422_CFARM2

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S09V000368	96	108	104	97	0
02	S09V000368MS	100	110	106	96	0
03	S09V000368MS	107	117	108	100	0
04	S09V000369	96	106	104	94	0
05	S09V000370	97	111	104	93	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(74-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(78-133)
SMC3 (TOL)	= Toluene-d8	(74-128)
OTHER(BFB)	= Bromofluorobenzene	(64-144)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10042205LCS.D
Report Date: 08-Jun-2010 19:31

WSCF/222-S

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_SOL.spk
Sublist File: 2009QC.sub
Method File: \\APWSCF02\SLab\chem\Ohura.i\data\V100422CFRM213.b\8260S100407.
Misc Info: C Farm WMC 2010-1

Client SDG: 100422_CFarm2
Fraction: VOA
Client Smp ID: LCS
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
14 1,1-Dichloroethene	20.000	23.008	115.04	66-141
19 Acetone	100.00	100.78	100.78	58-135
38 2-Butanone	100.00	108.38	108.38	50-149
41 Benzene	20.000	20.583	102.92	70-126
47 Trichloroethene	20.000	19.737	98.69	71-127
49 n-Butanol	200.00	203.90	101.95	53-148
59 Toluene	20.000	21.381	106.90	71-125
60 Methyl Isobutyl Ke	100.00	126.19	126.19	61-145
68 2-Hexanone	100.00	126.54	126.54	59-148
72 Chlorobenzene	20.000	21.348	106.74	81-120

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	20.000	20.971	104.85	77-129
$ 43 1,2-Dichloroethane	20.000	23.272	116.36	73-140
$ 57 Toluene-d8	20.000	23.121	115.61	70-126
$ 79 Bromofluorobenzene	20.000	22.439	112.20	79-125

19080

FORM 2

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100423_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB_LIQ	95	101	101	91	0
02	LCS_LIQ	99	104	110	100	0
03						
04						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER(BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100423_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V000310	92	96	104	89	0
02	S10V000310MS	92	101	105	94	0
03	S10V000310MS	96	101	106	94	0
04	S10V000312	93	98	104	95	0
05	S10V000320	90	89	98	88	0
06	S10V000321	92	94	103	91	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10042306LCS.D
Report Date: 23-Jun-2010 14:57

WSCF/222-S

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS_Liq
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_LIQ.spk
Sublist File: 2009QC.sub
Method File: \\APWSCF02\slab\chem\Ohura.i\data\V100423CFRMLIQ.b\8260S100407.m
Misc Info: VOA

Client SDG: 100423_CFarm
Fraction: VOA
Client Smp ID: LCS_Liq
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 1,1-Dichloroethene	10.000	10.802	108.02	77-136
19 Acetone	50.000	42.576	85.15	61-136
38 2-Butanone	50.000	48.631	97.26	70-130
41 Benzene	10.000	9.900	99.00	87-120
47 Trichloroethene	10.000	9.562	95.62	82-122
49 n-Butanol	100.00	89.354	89.35	61-143
59 Toluene	10.000	10.242	102.42	87-119
60 Methyl Isobutyl Ke	50.000	55.888	111.78	81-127
68 2-Hexanone	50.000	54.369	108.74	76-134
72 Chlorobenzene	10.000	10.093	100.93	88-119

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	10.000	9.910	99.10	85-123
$ 43 1,2-Dichloroethane	10.000	10.381	103.81	83-123
$ 57 Toluene-d8	10.000	11.059	110.59	82-121
$ 79 Bromofluorobenzene	10.000	10.004	100.04	82-126

19081

FORM 2

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100426_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB_LIQ	95	98	103	90	0
02	LCS_LIQ	103	106	114	98	0
03						
04						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER(BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100426_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V000311	91	98	105	88	0
02	S10V000322	92	92	102	83	0
03	S10V000323	97	97	106	91	0
04						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10042605LCS.D
Report Date: 27-Jun-2010 14:24

WSCF/222-S

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS_Liq
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_LIQ.spk
Sublist File: 2009QC.sub
Method File: \\apwscf02\slab\chem\Ohura.i\data\V100426CFRMRERUN.b\8260S10040
Misc Info: VOA

Client SDG: 100426_CFarm
Fraction: VOA
Client Smp ID: LCS_Liq
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 1,1-Dichloroethene	10.000	11.137	111.37	77-136
19 Acetone	50.000	61.551	123.10	61-136
38 2-Butanone	50.000	51.286	102.57	70-130
41 Benzene	10.000	10.054	100.54	87-120
47 Trichloroethene	10.000	9.852	98.52	82-122
49 n-Butanol	100.00	106.11	106.11	61-143
59 Toluene	10.000	10.500	105.00	87-119
60 Methyl Isobutyl Ke	50.000	56.852	113.70	81-127
68 2-Hexanone	50.000	55.497	110.99	76-134
72 Chlorobenzene	10.000	10.006	100.06	88-119

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	10.000	10.260	102.60	85-123
$ 43 1,2-Dichloroethane	10.000	10.587	105.87	83-123
$ 57 Toluene-d8	10.000	11.417	114.17	82-121
$ 79 Bromofluorobenzene	10.000	9.780	97.80	82-126

19123

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100428_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB_SOL	92	95	99	95	0
02	LCS_SOL	102	107	110	103	0
03						
04						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(77-129)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(73-140)
SMC3 (TOL)	= Toluene-d8	(70-126)
OTHER(BFB)	= Bromofluorobenzene	(79-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100428_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	S10V000371	90	101	96	85	0
02	S10V000371MS	97	110	103	92	0
03	S10V000371MS	94	108	106	94	0
04	S10V000373	95	102	96	90	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(74-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(78-133)
SMC3 (TOL)	= Toluene-d8	(74-128)
OTHER(BFB)	= Bromofluorobenzene	(64-144)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10042805LCS_SOL.D
Report Date: 15-Jun-2010 14:16

WSCF/222-S

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS_Sol
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_SOL.spk
Sublist File: 2009QC.sub
Method File: \\Apwscf02\slab\chem\Ohura.i\data\V100428CFARMSOL.b\8260S100407.
Misc Info: VOA

Client SDG: 100428_CFarm
Fraction: VOA
Client Smp ID: LCS_Sol
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
14 1,1-Dichloroethene	20.000	20.450	102.25	66-141
19 Acetone	100.00	95.089	95.09	58-135
38 2-Butanone	100.00	115.25	115.25	50-149
41 Benzene	20.000	19.292	96.46	70-126
47 Trichloroethene	20.000	18.409	92.04	71-127
49 n-Butanol	200.00	227.48	113.74	53-148
59 Toluene	20.000	20.288	101.44	71-125
60 Methyl Isobutyl Ke	100.00	132.23	132.23	61-145
68 2-Hexanone	100.00	128.90	128.90	59-148
72 Chlorobenzene	20.000	20.134	100.67	81-120

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	20.000	20.373	101.86	77-129
$ 43 1,2-Dichloroethane	20.000	21.398	106.99	73-140
$ 57 Toluene-d8	20.000	21.912	109.56	70-126
$ 79 Bromofluorobenzene	20.000	20.522	102.61	79-125

19447

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100517_LIQ

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB_LIQ	97	96	107	98	0
02	LCS_LIQ	98	103	106	101	0
03						
04						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER (BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100517_LIQ

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V000314	88	86	102	92	0
02	S10V000314MS	91	100	102	97	0
03	S10V000314MS	97	99	109	101	0
04						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10051708LCS_LIQ.D
Report Date: 29-Jun-2010 16:02

WSCF/222-S

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS_LIQ
Level: LOW
Data Type: MS DATA
SpikeList File: 2009SPK_LIQ.spk
Sublist File: 2009QC.sub
Method File: \\apwscf02\slab\chem\Ohura.i\data\V100517CFm314.b\8260S100516.m
Misc Info: VOA

Client SDG: 100517_LIQ
Fraction: VOA
Client Smp ID: LCS_LIQ
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 1,1-Dichloroethene	10.000	11.877	118.77	62-151
19 Acetone	50.000	75.781	151.56*	55-139
38 2-Butanone	50.000	47.887	95.77	60-146
41 Benzene	10.000	10.096	100.96	86-120
47 Trichloroethene	10.000	9.874	98.74	71-128
49 n-Butanol	100.00	89.062	89.06	73-140
59 Toluene	10.000	10.308	103.08	83-118
60 Methyl Isobutyl Ke	50.000	55.885	111.77	75-137
68 2-Hexanone	50.000	60.314	120.63	71-141
72 Chlorobenzene	10.000	10.198	101.99	88-113

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	10.000	9.788	97.89	85-123
$ 43 1,2-Dichloroethane	10.000	10.335	103.35	83-123
$ 57 Toluene-d8	10.000	10.645	106.45	82-121
$ 79 Bromofluorobenzene	10.000	10.150	101.50	82-126

19485

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100518_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB	97	97	107	98	0
02	LCS	97	100	102	96	0
03						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER(BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100518_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V000315	96	96	105	100	0
02	S10V000315MS	94	95	104	94	0
03	S10V000315MS	96	98	105	96	0
04	S10V000316_S	90	100	100	93	0
05	S10V000324_S	96	95	104	96	0
06	S10V000325_S	104	106	114	103	0
07	S10V000326_S	99	97	108	100	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10051807LCSL.D
Report Date: 30-Jun-2010 15:31

WSCF/222-S

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: 2009SPK_LIQ.spk
Sublist File: 2009QC.sub
Method File: \\APWSCF02\SLab\chem\Ohura.i\data\V100518_CFARML.b\8260S100516.
Misc Info: VOA

Client SDG: 100518_CFarm
Fraction: VOA
Client Smp ID: LCS
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 1,1-Dichloroethene	10.000	10.909	109.09	62-151
19 Acetone	50.000	79.923	159.85*	55-139
38 2-Butanone	50.000	47.171	94.34	60-146
41 Benzene	10.000	9.776	97.76	86-120
47 Trichloroethene	10.000	9.369	93.69	71-128
49 n-Butanol	100.00	77.123	77.12	73-140
59 Toluene	10.000	9.934	99.34	83-118
60 Methyl Isobutyl Ke	50.000	54.414	108.83	75-137
68 2-Hexanone	50.000	56.366	112.73	71-141
72 Chlorobenzene	10.000	9.654	96.54	88-113

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	10.000	9.723	97.23	85-123
$ 43 1,2-Dichloroethane	10.000	10.000	100.00	83-123
$ 57 Toluene-d8	10.000	10.168	101.68	82-121
$ 79 Bromofluorobenzene	10.000	9.563	95.63	82-126

19486

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100518_CFARMSOIL

Level: (low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB	108	110	117	116	0
02	LCS	108	113	113	117	0
03						
04						
05						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(77-129)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(73-140)
SMC3 (TOL)	= Toluene-d8	(70-126)
OTHER (BFB)	= Bromofluorobenzene	(79-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100518_CFARMSOIL

Level: (low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V000376	102	112	102	98	0
02	S10V000376MS	105	116	104	101	0
03	S10V000376MS	105	111	106	100	0
04	S10V000375_S	105	114	106	104	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(74-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(78-133)
SMC3 (TOL)	= Toluene-d8	(74-128)
OTHER (BFB)	= Bromofluorobenzene	(64-144)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10051809LCSS.D
Report Date: 29-Jun-2010 15:10

WSCF/222-S

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_SOL.spk
Sublist File: 2009QC.sub
Method File: \\apwscf02\slab\chem\Ohura.i\data\V100518_CFARMsol.b\8260S100516
Misc Info: VOA

Client SDG: 100518_CFarmSoil
Fraction: VOA
Client Smp ID: LCS
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
14 1,1-Dichloroethene	20.000	23.275	116.38	66-141
19 Acetone	100.00	125.74	125.74	58-135
38 2-Butanone	100.00	105.19	105.19	50-149
41 Benzene	20.000	21.606	108.03	70-126
47 Trichloroethene	20.000	20.292	101.46	71-127
49 n-Butanol	200.00	167.93	83.96	53-148
59 Toluene	20.000	21.852	109.26	71-125
60 Methyl Isobutyl Ke	100.00	126.02	126.02	61-145
68 2-Hexanone	100.00	130.68	130.68	59-148
72 Chlorobenzene	20.000	21.612	108.06	81-120

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	20.000	21.588	107.94	77-129
$ 43 1,2-Dichloroethane	20.000	22.591	112.95	73-140
$ 57 Toluene-d8	20.000	22.606	113.03	70-126
$ 79 Bromofluorobenzene	20.000	23.364	116.82	79-125

19566

FORM 2

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100524_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	S10V000378	96	97	102	106	0
02	S10V000128	103	112	98	103	0
03	S10V000142	100	114	106	106	0
04	S10V000378MS	108	127	105	111	0
05	S10V000378MS	110	129	109	116	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(74-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(78-133)
SMC3 (TOL)	= Toluene-d8	(74-128)
OTHER(BFB)	= Bromofluorobenzene	(64-144)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100524_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	CCB	96	100	111	107	0
02	LCS	98	105	105	102	0
03	CCB	93	98	96	92	0
04	LCS	101	104	100	98	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(77-129)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(73-140)
SMC3 (TOL)	= Toluene-d8	(70-126)
OTHER(BFB)	= Bromofluorobenzene	(79-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10052424LCSs.D
Report Date: 06-Jul-2010 14:32

WSCF/222-S

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_SOL.spk
Sublist File: 2009QC.sub
Method File: \\Apwscf02\slab\chem\Ohura.i\data\V100524CFARM.b\8260S100516.m
Misc Info: VOA

Client SDG: 100524_CFARM
Fraction: VOA
Client Smp ID: LCS
Operator: tam
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
14 1,1-Dichloroethene	20.000	18.929	94.65	66-141
19 Acetone	100.00	140.22	140.22*	58-135
38 2-Butanone	100.00	112.41	112.41	50-149
41 Benzene	20.000	19.149	95.75	70-126
47 Trichloroethene	20.000	17.992	89.96	71-127
49 n-Butanol	200.00	178.79	89.40	53-148
59 Toluene	20.000	19.334	96.67	71-125
60 Methyl Isobutyl Ke	100.00	128.18	128.19	61-145
68 2-Hexanone	100.00	135.01	135.01	59-148
72 Chlorobenzene	20.000	19.261	96.30	81-120

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	20.000	20.271	101.35	77-129
$ 43 1,2-Dichloroethane	20.000	20.876	104.38	73-140
$ 57 Toluene-d8	20.000	20.000	100.00	70-126
$ 79 Bromofluorobenzene	20.000	19.677	98.38	79-125

19680

FORM 2

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100524_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB	98	100	110	102	0
02	LCS	96	96	109	101	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER(BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100524_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V000105	98	98	112	101	0
02	S10V000105MS	100	103	107	100	0
03	S10V000105MS	100	106	107	103	0
04	S10V000317	93	99	105	100	0
05	S10V000327	98	100	106	101	0
06	S10V000106	101	105	109	101	0
07	S10V000095	95	98	101	95	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10052407LCSL.D
Report Date: 01-Jul-2010 15:44

WSCF/222-S

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_LIQ.spk
Sublist File: 2009QC.sub
Method File: \\apwscf02\slab\chem\Ohura.i\data\V100524CFARM_LIQ.b\8260S100516
Misc Info: VOA

Client SDG: 100524_CFARM
Fraction: VOA
Client Smp ID: LCS
Operator: tam
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 1,1-Dichloroethene	10.000	10.135	101.35	77-136
19 Acetone	50.000	85.948	171.90*	61-136
38 2-Butanone	50.000	48.570	97.14	70-130
41 Benzene	10.000	9.509	95.09	87-120
47 Trichloroethene	10.000	9.060	90.60	82-122
49 n-Butanol	100.00	81.747	81.75	61-143
59 Toluene	10.000	10.356	103.56	87-119
60 Methyl Isobutyl Ke	50.000	61.369	122.74	81-127
68 2-Hexanone	50.000	62.439	124.88	76-134
72 Chlorobenzene	10.000	10.213	102.13	88-119

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	10.000	9.618	96.18	85-123
$ 43 1,2-Dichloroethane	10.000	9.644	96.44	83-123
$ 57 Toluene-d8	10.000	10.874	108.74	82-121
$ 79 Bromofluorobenzene	10.000	10.142	101.42	82-126

20082

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100429_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB_SOL	93	98	100	90	0
02	LCS_SOL	96	100	103	93	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(77-129)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(73-140)
SMC3 (TOL)	= Toluene-d8	(70-126)
OTHER(BFB)	= Bromofluorobenzene	(79-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100429_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V000374	92	96	97	87	0
02	S10V000374MS	99	108	106	92	0
03	S10V000374MS	100	107	103	90	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(74-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(78-133)
SMC3 (TOL)	= Toluene-d8	(74-128)
OTHER(BFB)	= Bromofluorobenzene	(64-144)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10042906LCS_SOL.D
Report Date: 21-Jun-2010 15:06

WSCF/222-S

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS_Sol
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_SOL.spk
Sublist File: 2009QC.sub
Method File: \\apwscf02\slab\chem\Ohura.i\data\V100429CFRMSOL.b\8260S100407.m
Misc Info: VOA

Client SDG: 100429_CFarm
Fraction: VOA
Client Smp ID: LCS_Sol
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
14 1,1-Dichloroethene	20.000	18.460	92.30	66-141
19 Acetone	100.00	85.963	85.96	58-135
38 2-Butanone	100.00	106.72	106.73	50-149
41 Benzene	20.000	18.169	90.84	70-126
47 Trichloroethene	20.000	17.362	86.81	71-127
49 n-Butanol	200.00	198.05	99.02	53-148
59 Toluene	20.000	18.896	94.48	71-125
60 Methyl Isobutyl Ke	100.00	125.54	125.54	61-145
68 2-Hexanone	100.00	123.08	123.08	59-148
72 Chlorobenzene	20.000	18.816	94.08	81-120

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	20.000	19.257	96.29	77-129
$ 43 1,2-Dichloroethane	20.000	19.978	99.89	73-140
$ 57 Toluene-d8	20.000	20.689	103.44	70-126
$ 79 Bromofluorobenzene	20.000	18.529	92.65	79-125

20256

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100428_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB_LIQ	89	90	97	88	0
02	LCS_LIQ	89	94	103	91	0
03						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER(BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100428_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V000313	85	85	99	87	0
02	S10V000313MS	89	92	100	90	0
03	S10V000313MS	96	101	109	97	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10042807LCS_LIQ.D
Report Date: 27-Jun-2010 16:02

WSCF/222-S

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS_Liq
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_LIQ.spk
Sublist File: 2009QC.sub
Method File: \\Apwscf02\slab\chem\Ohura.i\data\V100428CFRMLIQ.b\8260S100407.
Misc Info: VOA

Client SDG: 100428_CFarm
Fraction: VOA
Client Smp ID: LCS_Liq
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 1,1-Dichloroethene	10.000	9.556	95.56	77-136
19 Acetone	50.000	41.166	82.33	61-136
38 2-Butanone	50.000	41.613	83.23	70-130
41 Benzene	10.000	8.750	87.50	87-120
47 Trichloroethene	10.000	8.565	85.65	82-122
49 n-Butanol	100.00	77.150	77.15	61-143
59 Toluene	10.000	9.538	95.38	87-119
60 Methyl Isobutyl Ke	50.000	49.172	98.34	81-127
68 2-Hexanone	50.000	46.600	93.20	76-134
72 Chlorobenzene	10.000	9.282	92.82	88-119

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	10.000	8.935	89.35	85-123
$ 43 1,2-Dichloroethane	10.000	9.362	93.62	83-123
$ 57 Toluene-d8	10.000	10.281	102.81	82-121
$ 79 Bromofluorobenzene	10.000	9.065	90.65	82-126

Date: 12 May 2011
To: CH2M Hill (technical representative)
From: Analytical Quality Associates, Inc.
Project: WMA C (C7670)
Subject: Semivolatile Organics - Sample Data Group (SDG) 20100213

INTRODUCTION

This memorandum presents the results of data validation for SDG 20100213 prepared by 222-S Laboratory. A list of samples validated along with the analytical methods is provided in the following table.

Sample ID	Sample Date	Media	Validation Level	Analytical Methods
B23R25	4/15/2010	Soil	C	8270C
B23KN7	4/15/2010	Soil	C	8270C
B238J9	4/20/2010	Soil	C	8270C
B25CN2	4/22/2010	Soil	C	8270C
B23KP6	4/22/2010	Soil	C	8270C
B23KP9	4/23/2010	Soil	C	8270C
B23KR2	5/4/2010	Soil	C	8270C
B23KR5	5/5/2010	Soil	C	8270C
B25ND7	5/7/2010	Soil	C	8270C

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 semivolatile organics in soil are extraction within 14 days of sample collection and analysis within 40 days of sample extraction. Sample preservation requires chilling to 4 degrees Celsius.

The samples were extracted and analyzed within the prescribed holding times 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

All laboratory blank results were acceptable with the following exceptions.

For batches 19296 and 19488, the butylbenzylphthalate laboratory blank results were > the method detection limit (MDL). The butylbenzylphthalate results for samples B25CN2, B23KP6, B23KP9, B23KR2 and B23KR5 were detects <5X the laboratory blank results and would be qualified as non-detects at the sample concentrations (80.4 ug/kg, 76.2 ug/kg, 74.2 ug/kg, 75.6 ug/kg and 84.4 ug/kg, respectively) and flagged "U," but were further flagged "UJ" due to non-represented MS/MSD and LCS data.

Trip Blanks

No trip blanks were submitted for validation.

Field Blanks

No field blanks were submitted for validation.

Equipment Blanks

No equipment blanks were submitted for validation.

- **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

All surrogate recoveries were acceptable.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Samples

All MS/MSD recoveries were acceptable with the following exceptions.

For batches 19182, 19296, 19488 and 19779, only seven 8270C MS/MSD analytes were reported. Reported analytes not represented in the MS/MSDs were cyclohexanone, isobutanol, n-nitrosomorpholine, pyridine, tributyl phosphate, 2-ethoxyethanol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, bis(2-ethylhexyl)phthalate, butylbenzylphthalate, di-n-butylphthalate, di-n-

octylphthalate, 2-methylphenol, 3&4-methylphenol, total methylphenols, 2-nitrophenol, hexachlorobutadiene, hexachloroethane and 1,2-dichlorobenzene. All associated sample results for these analytes *except* for di-n-octylphthalate for sample B25ND7 were non-detects (or qualified as non-detects) and should be qualified as estimates and flagged "UJ." The di-n-octylphthalate result for sample B25ND7 was a detect and should be qualified as an estimate and flagged "J."

For batch 19296, the MS and MSD recoveries for 1,2,4-trichlorobenzene and n-nitroso-di-n-dipropylamine were below the lower acceptance limits. The 1,2,4-trichlorobenzene and n-nitroso-di-n-dipropylamine results for samples B25CN2, B23KP6 and B23KP9 were non-detects and should be qualified as estimates and flagged "UJ."

For batch 19488, the MS and/or MSD recoveries for 1,2,4-trichlorobenzene, acenaphthene, 2-chlorophenol and n-nitroso-di-n-dipropylamine were below the lower acceptance limits. The 1,2,4-trichlorobenzene, acenaphthene, fluoranthene, naphthalene, 2-chlorophenol and n-nitroso-di-n-dipropylamine results for samples B23KR2 and B23KR5 were non-detects and should be qualified as estimates and flagged "UJ."

Laboratory Control Samples (LCSs)

All LCS recoveries were acceptable with the following exceptions.

For batches 19182, 19296, 19488 and 19779, only seven 8270C LCS analytes were reported. Reported analytes not represented in the LCSs were cyclohexanone, isobutanol, n-nitrosomorpholine, pyridine, tributyl phosphate, 2-ethoxyethanol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, bis(2-ethylhexyl)phthalate, butylbenzylphthalate, di-n-butylphthalate, di-n-octylphthalate, 2-methylphenol, 3&4-methylphenol, total methylphenols, 2-nitrophenol, hexachlorobutadiene, hexachloroethane and 1,2-dichlorobenzene. All associated sample results for these analytes *except* for di-n-octylphthalate for sample B25ND7 were non-detects (or qualified as non-detects) and should be qualified as estimates and flagged "UJ." The di-n-octylphthalate result for sample B25ND7 was a detect and should be qualified as an estimate and flagged "J."

For batch 19182, the LCS recoveries for 1,2,4-trichlorobenzene, 2-chlorophenol and n-nitroso-di-n-dipropylamine were below the lower acceptance limits. The 1,2,4-trichlorobenzene, 2-chlorophenol and n-nitroso-di-n-dipropylamine results for samples B23R25, B23KN7 and B238J9 were non-detects and should be qualified as estimates and flagged "UJ."

For batch 19488, the LCS recoveries for 1,2,4-trichlorobenzene, acenaphthene, 4-chloro-3-methylphenol, 2-chlorophenol and n-nitroso-di-n-dipropylamine were below the lower acceptance limits. The 1,2,4-trichlorobenzene, acenaphthene, fluoranthene, naphthalene, 4-chloro-3-methylphenol, 2-chlorophenol and n-nitroso-di-n-dipropylamine results for samples B23KR2 and B23KR5 were non-detects and should be qualified as estimates and flagged "UJ."

- **Precision**

Precision is evaluated by reviewing MS/MSD 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 exceed the limits and have associated results <5X the SAP required detection limits with differences <2X the required detection limits no precision infraction occurred.

MS/MSD Samples

All MS/MSD relative percent difference values were acceptable.

Field Duplicate Samples

All field duplicate results were acceptable.

Field Split Samples

No field splits were submitted for validation.

- **Detection Limits**

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

All reported sample MDLs were below the RDLs.

- **Completeness**

SDG 20100213 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

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

GRP-GD-003, Rev. 0, Change 0, *Data Validation for Chemical Analyses*, August 2010

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

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

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

- **N** — The analysis indicates the presence of an analyte that has been tentatively identified.

- **NJ** — The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

- **NJ+** — The analysis indicates the presence of an analyte that has been tentatively identified. The associated value is estimated with a suspected positive bias due to a quality control deficiency identified during data validation.

- **NJ-** — The analysis indicates the presence of an analyte that has been tentatively identified. The associated value is estimated with a suspected negative bias due to a quality control deficiency identified during data validation.

- **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			
SDG: 20100213	Reviewer: AQA	Project: WMA C (C7670)	
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
cyclohexanone isobutanol n-nitrosomorpholine pyridine tributyl phosphate 2-ethoxyethanol 2,4,5-trichlorophenol 2,4,6-trichlorophenol bis(2-ethylhexyl)phthalate di-n-butylphthalate di-n-octylphthalate 2-methylphenol 3&4-methylphenol 2-nitrophenol hexachlorobutadiene hexachloroethane 1,2-dichlorobenzene	UJ	B23R25, B23KN7, B238J9, B25CN2, B23KP6, B23KP9, B23KR2, B23KR5	Non-represented MS/MSD and LCS data
cyclohexanone isobutanol n-nitrosomorpholine pyridine tributyl phosphate 2-ethoxyethanol 2,4,5-trichlorophenol 2,4,6-trichlorophenol bis(2-ethylhexyl)phthalate butylbenzylphthalate di-n-butylphthalate 2-methylphenol 3&4-methylphenol total methylphenols 2-nitrophenol hexachlorobutadiene hexachloroethane 1,2-dichlorobenzene	UJ	B25ND7	Non-represented MS/MSD and LCS data
total methylphenols	UJ	B23R25, B23KN7, B238J9, B23KR2, B23KR5	Non-represented MS/MSD and LCS data
di-n-octylphthalate	J	B25ND7	Non-represented MS/MSD and LCS data

Semivolatile Organics Data Qualification Summary			
butylbenzylphthalate	UJ	B23R25, B23KN7, B238J9	Non-represented MS/MSD and LCS data
butylbenzylphthalate	80.4UJ	B25CN2	Lab blank contamination and non-represented MS/MSD and LCS data
butylbenzylphthalate	76.2UJ	B23KP6	Lab blank contamination and non-represented MS/MSD and LCS data
butylbenzylphthalate	74.2UJ	B23KP9	Lab blank contamination and non-represented MS/MSD and LCS data
butylbenzylphthalate	75.6UJ	B23KR2	Lab blank contamination and non-represented MS/MSD and LCS data
butylbenzylphthalate	84.4UJ	B23KR5	Lab blank contamination and non-represented MS/MSD and LCS data
1,2,4-trichlorobenzene 2-chlorophenol n-nitroso-di-n-dipropylamine	UJ	B23R25, B23KN7, B238J9	Low LCS recoveries
1,2,4-trichlorobenzene n-nitroso-di-n-dipropylamine	UJ	B25CN2, B23KP6, B23KP9	Low MS/MSD recoveries
1,2,4-trichlorobenzene acenaphthene fluoranthene naphthalene 2-chlorophenol n-nitroso-di-n-dipropylamine	UJ	B23KR2, B23KR5	Low LCS recoveries, low MS and/or MSD recoveries
4-chloro-3-methylphenol	UJ	B23KR2, B23KR5	Low LCS recovery

Comments: Qualifiers applied to sample B23KR5 above may need to be applied to sample B23KR7 in the database if the 222-S Lab EDD matched their Data Summary Report. Both samples represent 163-165 feet. Sample B23KR7 was assigned VOA on the COC, and sample B23KR5 was assigned SVOA on the COC. The lab reported both VOA and SVOA results on the B23KR7 Data Summary Report. The laboratory has been notified of this error, and it is expected that both the electronic and hardcopy data will be corrected to show SVOA data reported under sample B23KR5.

Appendix 3

Annotated Laboratory Reports

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000401~~			~~%WATERA~~	~~%WATER-APD~~		~~%~~	~~n/a~~	~~n/a~~	~~8.090~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.01000~~	~~n/a~~	
S10V000401			57-12-5	Cyanide		ug/g	97.0	<0.0370	<2.35	<2.33	n/a	n/a	96.9	2.35	n/a	U
S10V000401			7439-97-6	Mercury		ug/g	102	<1.00E-04	<8.65E-03	n/a	n/a	n/a	n/a	8.65E-03	n/a	U
S10V000401			PH	pH		unitless	n/a	n/a	8.84	n/a	n/a	n/a	n/a	0.0100	n/a	
~~S10V000401~~			~~18496-25-8~~	~~Sulfide~~		~~ug/g~~	~~89.6~~	~~<0.180~~	~~27.3~~	~~25.6~~	~~26.4~~	~~6.57~~	~~81.8~~	~~7.20~~	~~n/a~~	~~J~~
S10V000418		O	120-82-1	1,2,4-Trichlorobenzene	UJ	ug/kg	66.6	<77.4	<76.5	n/a	n/a	n/a	77.7	76.5	n/a	U
S10V000418		O	95-50-1	1,2-Dichlorobenzene	UJ	ug/kg	n/a	<101	<99.6	n/a	n/a	n/a	n/a	99.6	n/a	U
S10V000418		O	121-14-2	2,4-Dinitrotoluene		ug/kg	87.3	<38.1	<37.7	n/a	n/a	n/a	97.2	37.7	n/a	U
S10V000418		O	95-95-4	2,4,5-Trichlorophenol	UJ	ug/kg	n/a	<44.0	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S10V000418		O	88-06-2	2,4,6-Trichlorophenol	UJ	ug/kg	n/a	<49.5	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S10V000418		O	95-48-7	2-Methylphenol	UJ	ug/kg	n/a	<57.5	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S10V000418		O	88-75-5	2-Nitrophenol	UJ	ug/kg	n/a	<53.7	<53.1	n/a	n/a	n/a	n/a	53.1	n/a	U
S10V000418		O	65794-96-9	3 &4 Methylphenol	UJ	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V000418		O	83-32-9	Acenaphthene		ug/kg	72.2	<17.6	<17.4	n/a	n/a	n/a	84.3	17.4	n/a	U
S10V000418		O	56-55-3	Benzo(a)anthracene		ug/kg	n/a	<37.8	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S10V000418		O	205-99-2	Benzo(b)fluoranthene		ug/kg	n/a	<48.9	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S10V000418		O	50-32-8	Benzo(a)pyrene		ug/kg	n/a	<41.2	<40.7	n/a	n/a	n/a	n/a	40.7	n/a	U
S10V000418		O	117-81-7	Bis(2-ethylhexyl) phthalate	UJ	ug/kg	n/a	<590	<584	n/a	n/a	n/a	n/a	584	n/a	U
S10V000418		O	207-08-9	Benzo(k)fluoranthene		ug/kg	n/a	<39.1	<38.7	n/a	n/a	n/a	n/a	38.7	n/a	U
S10V000418		O	85-68-7	Butylbenzylphthalate	UJ	ug/kg	n/a	<50.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V000418		O	59-50-7	4-Chloro-3-methylphenol		ug/kg	72.5	<43.2	<42.7	n/a	n/a	n/a	84.5	42.7	n/a	U
S10V000418		O	95-57-8	2-Chlorophenol	UJ	ug/kg	68.6	<66.5	<65.8	n/a	n/a	n/a	81.5	65.8	n/a	U
S10V000418		O	218-01-9	Chrysene		ug/kg	n/a	<81.4	<80.5	n/a	n/a	n/a	n/a	80.5	n/a	U
S10V000418		O	53-70-3	Dibenz[a,h]anthracene		ug/kg	n/a	<51.1	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S10V000418		O	84-74-2	Di-n-butylphthalate	UJ	ug/kg	n/a	<562	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V000418		O	117-84-0	Di-n-octylphthalate	UJ	ug/kg	n/a	<47.7	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S10V000418		O	621-64-7	N-Nitroso-di-n-dipropylamine	UJ	ug/kg	67.1	<58.1	<57.5	n/a	n/a	n/a	75.4	57.5	n/a	U
S10V000418		O	206-44-0	Fluoranthene		ug/kg	n/a	<35.4	<35.0	n/a	n/a	n/a	n/a	35.0	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000418		O	87-68-3	Hexachlorobutadiene	UJ	ug/kg	n/a	<69.7	<68.9	n/a	n/a	n/a	n/a	68.9	n/a	U
S10V000418		O	67-72-1	Hexachloroethane	UJ	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V000418		O	193-39-5	Indeno(1,2,3-cd)pyrene		ug/kg	n/a	<51.0	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S10V000418		O	91-20-3	Naphthalene		ug/kg	n/a	<62.6	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S10V000418		O	98-95-3	Nitrobenzene		ug/kg	n/a	<64.6	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S10V000418		O	129-00-0	Pyrene		ug/kg	93.9	<62.9	<62.2	n/a	n/a	n/a	95.8	62.2	n/a	U
S10V000418		O	110-86-1	Pyridine	UJ	ug/kg	n/a	<65.0	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S10V000418		O	126-73-8	Tributyl phosphate	UJ	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V000418		O	128-37-0	BHT		ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S10V000418		O	110-80-5	2-Ethoxyethanol	UJ	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S10V000418		O	1319-77-3	Total Methylphenols	UJ	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V000418		O	108-94-1	Cyclohexanone	UJ	ug/kg	n/a	<558	<552	n/a	n/a	n/a	n/a	552	n/a	U
S10V000418		O	59-89-2	N-Nitrosomorpholine	UJ	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S10V000418		O	78-83-1	Isobutanol	UJ	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
S10V000419		W	16984-48-8	Fluoride		ug/g	103	<1.61E-03	1.04	n/a	n/a	n/a	n/a	0.0160	n/a	
S10V000419		W	666-14-8	Glycolate		ug/g	101	<9.37E-03	<0.0930	n/a	n/a	n/a	n/a	0.0930	n/a	U
S10V000419		W	71-50-1	Acetate		ug/g	98.8	<6.04E-03	0.163	n/a	n/a	n/a	n/a	0.0599	n/a	J
S10V000419		W	12311-97-6	Formate		ug/g	102	<4.67E-03	0.564	n/a	n/a	n/a	n/a	0.0463	n/a	J
S10V000419		W	16887-00-6	Chloride		ug/g	100	<9.98E-03	1.23	n/a	n/a	n/a	n/a	0.0990	n/a	
S10V000419		W	14797-65-0	Nitrite		ug/g	100	0.0449	1.40	n/a	n/a	n/a	n/a	0.190	n/a	BJ
S10V000419		W	14808-79-8	Sulfate		ug/g	102	<0.0187	2.76	n/a	n/a	n/a	n/a	0.186	n/a	J
S10V000419		W	338-70-5	Oxalate		ug/g	101	<0.0231	0.472	n/a	n/a	n/a	n/a	0.229	n/a	J
S10V000419		W	24959-67-9	Bromide		ug/g	101	<0.0580	<0.575	n/a	n/a	n/a	n/a	0.575	n/a	U
S10V000419		W	14797-55-8	Nitrate		ug/g	101	<0.0208	4.08	n/a	n/a	n/a	n/a	0.206	n/a	
S10V000419		W	14265-44-2	Phosphate		ug/g	101	<0.0167	0.552	n/a	n/a	n/a	n/a	0.166	n/a	J
S10V000420		A	7429-90-5	Aluminum		ug/g	94.0	<0.0300	6.58E+03	6.93E+03	6.75E+03	5.17	1.94E+03	3.28	n/a	
S10V000420		A	7440-39-3	Barium		ug/g	96.6	<3.00E-03	86.3	87.3	86.8	1.08	106	0.328	n/a	
S10V000420		A	7440-41-7	Beryllium		ug/g	100	<1.00E-03	0.216	0.208	0.212	3.79	101	0.109	n/a	J

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000402~~			~~%WATERA~~	~~%WATER-APD~~		~~%~~	~~n/a~~	~~n/a~~	~~7.320~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.01000~~	~~n/a~~	
S10V000402			57-12-5	Cyanide		ug/g	97.0	<0.0370	<2.46	n/a	n/a	n/a	n/a	2.46	n/a	U
S10V000402			7439-97-6	Mercury		ug/g	102	<1.00E-04	<8.63E-03	n/a	n/a	n/a	n/a	8.63E-03	n/a	U
S10V000402			PH	pH		unitless	n/a	n/a	8.15	8.63	8.39	5.72	n/a	0.0100	n/a	
S10V000402			18496-25-8	Sulfide		ug/g	89.6	<0.180	34.8	n/a	n/a	n/a	n/a	7.23	n/a	J
S10V000575			13966-00-2	Potassium-40		uCi/g	n/a	<7.29E-06	1.46E-05	n/a	n/a	n/a	n/a	6.68E-06	30.93	J
S10V000575			10198-40-0	Cobalt-60		uCi/g	99.3	<2.87E-07	<3.54E-07	n/a	n/a	n/a	n/a	3.54E-07	n/a	U
S10V000575			14234-35-6	Antimony-125		uCi/g	n/a	<7.84E-07	<9.75E-07	n/a	n/a	n/a	n/a	9.75E-07	n/a	U
S10V000575			10045-97-3	Cesium-137		uCi/g	99.7	<3.71E-07	5.40E-06	n/a	n/a	n/a	n/a	4.06E-07	8.93	
S10V000575			14683-23-9	Europium-152		uCi/g	n/a	<1.61E-06	<1.49E-06	n/a	n/a	n/a	n/a	1.49E-06	n/a	U
S10V000575			15585-10-1	Europium-154		uCi/g	n/a	<9.14E-07	<1.10E-06	n/a	n/a	n/a	n/a	1.10E-06	n/a	U
S10V000575			14391-16-3	Europium-155		uCi/g	n/a	<4.78E-07	<5.91E-07	n/a	n/a	n/a	n/a	5.91E-07	n/a	U
S10V000575			15092-94-1	Lead-212		uCi/g	n/a	<4.24E-07	5.33E-07	n/a	n/a	n/a	n/a	6.25E-07	47.66	Jc
S10V000575			15067-28-4	Lead-214		uCi/g	n/a	<5.69E-07	7.51E-07	n/a	n/a	n/a	n/a	8.51E-07	44.49	J
S10V000575			14274-82-9	Thorium-228		uCi/g	n/a	<8.12E-06	<1.10E-05	n/a	n/a	n/a	n/a	1.10E-05	n/a	U
S10V000575			15065-10-8	Thorium-234		uCi/g	n/a	<2.54E-06	<3.66E-06	n/a	n/a	n/a	n/a	3.66E-06	n/a	U
~~S10V000575~~			~~15046-84-1~~	~~Iodine-129~~		~~uCi/g~~	~~106~~	~~<2.36E-07~~	~~<2.14E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.14E-07~~	~~n/a~~	~~U~~
S10V000576		O	120-82-1	1,2,4-Trichlorobenzene	UJ	ug/kg	66.6	<77.4	<69.7	n/a	n/a	n/a	n/a	69.7	n/a	U
S10V000576		O	95-50-1	1,2-Dichlorobenzene	UJ	ug/kg	n/a	<101	<90.6	n/a	n/a	n/a	n/a	90.6	n/a	U
S10V000576		O	121-14-2	2,4-Dinitrotoluene		ug/kg	87.3	<38.1	<34.3	n/a	n/a	n/a	n/a	34.3	n/a	U
S10V000576		O	95-95-4	2,4,5-Trichlorophenol	UJ	ug/kg	n/a	<44.0	<39.6	n/a	n/a	n/a	n/a	39.6	n/a	U
S10V000576		O	88-06-2	2,4,6-Trichlorophenol	UJ	ug/kg	n/a	<49.5	<44.6	n/a	n/a	n/a	n/a	44.6	n/a	U
S10V000576		O	95-48-7	2-Methylphenol	UJ	ug/kg	n/a	<57.5	<51.8	n/a	n/a	n/a	n/a	51.8	n/a	U
S10V000576		O	88-75-5	2-Nitrophenol	UJ	ug/kg	n/a	<53.7	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U
S10V000576		O	65794-96-9	3 &4 Methylphenol	UJ	ug/kg	n/a	<51.4	<46.3	n/a	n/a	n/a	n/a	46.3	n/a	U
S10V000576		O	83-32-9	Acenaphthene		ug/kg	72.2	<17.6	<15.8	n/a	n/a	n/a	n/a	15.8	n/a	U
S10V000576		O	56-55-3	Benzo(a)anthracene		ug/kg	n/a	<37.8	<34.0	n/a	n/a	n/a	n/a	34.0	n/a	U
S10V000576		O	205-99-2	Benzo(b)fluoranthene		ug/kg	n/a	<48.9	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000576		O	50-32-8	Benzo(a)pyrene		ug/kg	n/a	<41.2	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S10V000576		O	117-81-7	Bis(2-ethylhexyl) phthalate	UJ	ug/kg	n/a	<590	<531	n/a	n/a	n/a	n/a	531	n/a	U
S10V000576		O	207-08-9	Benzo(k)fluoranthene		ug/kg	n/a	<39.1	<35.2	n/a	n/a	n/a	n/a	35.2	n/a	U
S10V000576		O	85-68-7	Butylbenzylphthalate	UJ	ug/kg	n/a	<50.0	<45.0	n/a	n/a	n/a	n/a	45.0	n/a	U
S10V000576		O	59-50-7	4-Chloro-3-methylphenol		ug/kg	72.5	<43.2	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S10V000576		O	95-57-8	2-Chlorophenol	UJ	ug/kg	68.6	<66.5	<59.9	n/a	n/a	n/a	n/a	59.9	n/a	U
S10V000576		O	218-01-9	Chrysene		ug/kg	n/a	<81.4	<73.3	n/a	n/a	n/a	n/a	73.3	n/a	U
S10V000576		O	53-70-3	Dibenz[a,h]anthracene		ug/kg	n/a	<51.1	<46.0	n/a	n/a	n/a	n/a	46.0	n/a	U
S10V000576		O	84-74-2	Di-n-butylphthalate	UJ	ug/kg	n/a	<562	<506	n/a	n/a	n/a	n/a	506	n/a	U
S10V000576		O	117-84-0	Di-n-octylphthalate	UJ	ug/kg	n/a	<47.7	<42.9	n/a	n/a	n/a	n/a	42.9	n/a	U
S10V000576		O	621-64-7	N-Nitroso-di-n-dipropylamine	UJ	ug/kg	67.1	<58.1	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S10V000576		O	206-44-0	Fluoranthene		ug/kg	n/a	<35.4	<31.9	n/a	n/a	n/a	n/a	31.9	n/a	U
S10V000576		O	87-68-3	Hexachlorobutadiene	UJ	ug/kg	n/a	<69.7	<62.7	n/a	n/a	n/a	n/a	62.7	n/a	U
S10V000576		O	67-72-1	Hexachloroethane	UJ	ug/kg	n/a	<112	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V000576		O	193-39-5	Indeno(1,2,3-cd)pyrene		ug/kg	n/a	<51.0	<45.9	n/a	n/a	n/a	n/a	45.9	n/a	U
S10V000576		O	91-20-3	Naphthalene		ug/kg	n/a	<62.6	<56.3	n/a	n/a	n/a	n/a	56.3	n/a	U
S10V000576		O	98-95-3	Nitrobenzene		ug/kg	n/a	<64.6	<58.1	n/a	n/a	n/a	n/a	58.1	n/a	U
S10V000576		O	129-00-0	Pyrene		ug/kg	93.9	<62.9	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S10V000576		O	110-86-1	Pyridine	UJ	ug/kg	n/a	<65.0	<58.5	n/a	n/a	n/a	n/a	58.5	n/a	U
S10V000576		O	126-73-8	Tributyl phosphate	UJ	ug/kg	n/a	<108	<97.0	n/a	n/a	n/a	n/a	97.0	n/a	U
S10V000576		O	128-37-0	BHT		ug/kg	n/a	<236	<212	n/a	n/a	n/a	n/a	212	n/a	U
S10V000576		O	110-80-5	2-Ethoxyethanol	UJ	ug/kg	n/a	<182	<164	n/a	n/a	n/a	n/a	164	n/a	U
S10V000576		O	1319-77-3	Total Methylphenols	UJ	ug/kg	n/a	<107	<95.9	n/a	n/a	n/a	n/a	95.9	n/a	U
S10V000576		O	108-94-1	Cyclohexanone	UJ	ug/kg	n/a	<558	<502	n/a	n/a	n/a	n/a	502	n/a	U
S10V000576		O	59-89-2	N-Nitrosomorpholine	UJ	ug/kg	n/a	<191	<172	n/a	n/a	n/a	n/a	172	n/a	U
S10V000576		O	78-83-1	Isobutanol	UJ	ug/kg	n/a	<460	<414	n/a	n/a	n/a	n/a	414	n/a	U
~~S10V000577~~		~~W~~	~~14762-75-5~~	~~Carbon-14~~		~~uCi/g~~	~~93.5~~	~~<2.60E-07~~	~~<2.83E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.83E-06~~	~~n/a~~	~~U~~
~~S10V000577~~		~~W~~	~~16984-48-8~~	~~Fluoride~~		~~ug/g~~	~~103~~	~~<1.61E-03~~	~~1.36~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.0161~~	~~n/a~~	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000403			%WATERA	%WATER-APD		%	n/a	n/a	3.690	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000403			57-12-5	Cyanide		ug/g	97.0	<0.0370	<2.48	n/a	n/a	n/a	n/a	2.48	n/a	U
S10V000403			7439-97-6	Mercury		ug/g	102	<1.00E-04	<9.34E-03	n/a	n/a	n/a	n/a	9.34E-03	n/a	U
S10V000403			PH	pH		unitless	n/a	n/a	8.46	8.53	8.50	0.824	n/a	0.0100	n/a	
S10V000403			18496-25-8	Sulfide		ug/g	108	<0.180	21.3	23.3	22.3	8.86	105	7.09	n/a	J
S10V000412			BULKDENSI	Bulk Density		g/mL	n/a	n/a	2.05	n/a	n/a	n/a	n/a	n/a	n/a	
S10V000623			13966-00-2	Potassium-40		uCi/g	n/a	<7.29E-06	1.22E-05	n/a	n/a	n/a	n/a	5.37E-06	29.82	
S10V000623			10198-40-0	Cobalt-60		uCi/g	99.3	<2.87E-07	<3.03E-07	n/a	n/a	n/a	n/a	3.03E-07	n/a	U
S10V000623			14234-35-6	Antimony-125		uCi/g	n/a	<7.84E-07	<7.19E-07	n/a	n/a	n/a	n/a	7.19E-07	n/a	U
S10V000623			10045-97-3	Cesium-137		uCi/g	99.7	<3.71E-07	<3.39E-07	n/a	n/a	n/a	n/a	3.39E-07	n/a	U
S10V000623			14683-23-9	Europium-152		uCi/g	n/a	<1.61E-06	<1.19E-06	n/a	n/a	n/a	n/a	1.19E-06	n/a	U
S10V000623			15585-10-1	Europium-154		uCi/g	n/a	<9.14E-07	<8.71E-07	n/a	n/a	n/a	n/a	8.71E-07	n/a	U
S10V000623			14391-16-3	Europium-155		uCi/g	n/a	<4.78E-07	<4.51E-07	n/a	n/a	n/a	n/a	4.51E-07	n/a	U
S10V000623			15067-28-4	Lead-214		uCi/g	n/a	<5.69E-07	6.64E-07	n/a	n/a	n/a	n/a	5.80E-07	38.19	J
S10V000623			14274-82-9	Thorium-228		uCi/g	n/a	<8.12E-06	<8.31E-06	n/a	n/a	n/a	n/a	8.31E-06	n/a	U
S10V000623			15065-10-8	Thorium-234		uCi/g	n/a	<2.54E-06	<2.85E-06	n/a	n/a	n/a	n/a	2.85E-06	n/a	U
S10V000623			15046-84-1	Iodine-129		uCi/g	106	<2.36E-07	<2.32E-07	n/a	n/a	n/a	n/a	2.32E-07	n/a	U
S10V000628		O	120-82-1	1,2,4-Trichlorobenzene	UJ	ug/kg	66.6	<77.4	<76.6	n/a	n/a	n/a	n/a	76.6	n/a	U
S10V000628		O	95-50-1	1,2-Dichlorobenzene	UJ	ug/kg	n/a	<101	<99.6	n/a	n/a	n/a	n/a	99.6	n/a	U
S10V000628		O	121-14-2	2,4-Dinitrotoluene		ug/kg	87.3	<38.1	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V000628		O	95-95-4	2,4,5-Trichlorophenol	UJ	ug/kg	n/a	<44.0	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S10V000628		O	88-06-2	2,4,6-Trichlorophenol	UJ	ug/kg	n/a	<49.5	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S10V000628		O	95-48-7	2-Methylphenol	UJ	ug/kg	n/a	<57.5	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S10V000628		O	88-75-5	2-Nitrophenol	UJ	ug/kg	n/a	<53.7	<53.1	n/a	n/a	n/a	n/a	53.1	n/a	U
S10V000628		O	65794-96-9	3 &4 Methylphenol	UJ	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V000628		O	83-32-9	Acenaphthene		ug/kg	72.2	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S10V000628		O	56-55-3	Benzo(a)anthracene		ug/kg	n/a	<37.8	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S10V000628		O	205-99-2	Benzo(b)fluoranthene		ug/kg	n/a	<48.9	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000628		O	50-32-8	Benzo(a)pyrene		ug/kg	n/a	<41.2	<40.8	n/a	n/a	n/a	n/a	40.8	n/a	U
S10V000628		O	117-81-7	Bis(2-ethylhexyl) phthalate	UJ	ug/kg	n/a	<590	<584	n/a	n/a	n/a	n/a	584	n/a	U
S10V000628		O	207-08-9	Benzo(k)fluoranthene		ug/kg	n/a	<39.1	<38.7	n/a	n/a	n/a	n/a	38.7	n/a	U
S10V000628		O	85-68-7	Butylbenzylphthalate	UJ	ug/kg	n/a	<50.0	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S10V000628		O	59-50-7	4-Chloro-3-methylphenol		ug/kg	72.5	<43.2	<42.7	n/a	n/a	n/a	n/a	42.7	n/a	U
S10V000628		O	95-57-8	2-Chlorophenol	UJ	ug/kg	68.6	<66.5	<65.8	n/a	n/a	n/a	n/a	65.8	n/a	U
S10V000628		O	218-01-9	Chrysene		ug/kg	n/a	<81.4	<80.5	n/a	n/a	n/a	n/a	80.5	n/a	U
S10V000628		O	53-70-3	Dibenz[a,h]anthracene		ug/kg	n/a	<51.1	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S10V000628		O	84-74-2	Di-n-butylphthalate	UJ	ug/kg	n/a	<562	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V000628		O	117-84-0	Di-n-octylphthalate	UJ	ug/kg	n/a	<47.7	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S10V000628		O	621-64-7	N-Nitroso-di-n-dipropylamine	UJ	ug/kg	67.1	<58.1	<57.5	n/a	n/a	n/a	n/a	57.5	n/a	U
S10V000628		O	206-44-0	Fluoranthene		ug/kg	n/a	<35.4	<35.0	n/a	n/a	n/a	n/a	35.0	n/a	U
S10V000628		O	87-68-3	Hexachlorobutadiene	UJ	ug/kg	n/a	<69.7	<68.9	n/a	n/a	n/a	n/a	68.9	n/a	U
S10V000628		O	67-72-1	Hexachloroethane	UJ	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V000628		O	193-39-5	Indeno(1,2,3-cd)pyrene		ug/kg	n/a	<51.0	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S10V000628		O	91-20-3	Naphthalene		ug/kg	n/a	<62.6	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S10V000628		O	98-95-3	Nitrobenzene		ug/kg	n/a	<64.6	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S10V000628		O	129-00-0	Pyrene		ug/kg	93.9	<62.9	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S10V000628		O	110-86-1	Pyridine	UJ	ug/kg	n/a	<65.0	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S10V000628		O	126-73-8	Tributyl phosphate	UJ	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V000628		O	128-37-0	BHT		ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S10V000628		O	110-80-5	2-Ethoxyethanol	UJ	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S10V000628		O	1319-77-3	Total Methylphenols	UJ	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V000628		O	108-94-1	Cyclohexanone	UJ	ug/kg	n/a	<558	<552	n/a	n/a	n/a	n/a	552	n/a	U
S10V000628		O	59-89-2	N-Nitrosomorpholine	UJ	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S10V000628		O	78-83-1	Isobutanol	UJ	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
~~S10V000629~~		~~W~~	~~14762-75-5~~	~~Carbon-14~~		~~uCi/g~~	~~93.5~~	~~<2.60E-07~~	~~<2.71E-06~~	~~<2.73E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.71E-06~~	~~n/a~~	~~U~~
~~S10V000629~~		~~W~~	~~16984-48-8~~	~~Fluoride~~		~~ug/g~~	~~98.5~~	~~<1.61E-03~~	~~1.11~~	~~1.21~~	~~1.16~~	~~8.50~~	~~n/a~~	~~0.0170~~	~~n/a~~	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000404			%WATERA	%WATER-APD		%	n/a	n/a	3.890	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000404			57-12-5	Cyanide		ug/g	99.5	<0.0370	<2.85	<2.79	n/a	n/a	98.4	2.85	n/a	U
S10V000404			7439-97-6	Mercury		ug/g	102	<1.00E-04	0.0102	n/a	n/a	n/a	n/a	8.98E-03	n/a	J
S10V000404			PH	pH		unitless	n/a	n/a	9.33	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000404			18496-25-8	Sulfide		ug/g	106	<0.180	17.9	17.9	17.9	0.309	111	7.11	n/a	J
S10V000636			13966-00-2	Potassium-40		uCi/g	n/a	<7.29E-06	1.34E-05	n/a	n/a	n/a	n/a	5.20E-06	26.66	
S10V000636			10198-40-0	Cobalt-60		uCi/g	99.3	<2.87E-07	<2.34E-07	n/a	n/a	n/a	n/a	2.34E-07	n/a	U
S10V000636			14234-35-6	Antimony-125		uCi/g	n/a	<7.84E-07	<6.86E-07	n/a	n/a	n/a	n/a	6.86E-07	n/a	U
S10V000636			10045-97-3	Cesium-137		uCi/g	99.7	<3.71E-07	<3.33E-07	n/a	n/a	n/a	n/a	3.33E-07	n/a	U
S10V000636			14683-23-9	Europium-152		uCi/g	n/a	<1.61E-06	<1.13E-06	n/a	n/a	n/a	n/a	1.13E-06	n/a	U
S10V000636			15585-10-1	Europium-154		uCi/g	n/a	<9.14E-07	<8.19E-07	n/a	n/a	n/a	n/a	8.19E-07	n/a	U
S10V000636			14391-16-3	Europium-155		uCi/g	n/a	<4.78E-07	<4.31E-07	n/a	n/a	n/a	n/a	4.31E-07	n/a	U
S10V000636			15092-94-1	Lead-212		uCi/g	n/a	<4.24E-07	1.02E-06	n/a	n/a	n/a	n/a	4.72E-07	26.19	c
S10V000636			15067-28-4	Lead-214		uCi/g	n/a	<5.69E-07	9.34E-07	n/a	n/a	n/a	n/a	6.24E-07	34.89	J
S10V000636			14274-82-9	Thorium-228		uCi/g	n/a	<8.12E-06	<8.10E-06	n/a	n/a	n/a	n/a	8.10E-06	n/a	U
S10V000636			15065-10-8	Thorium-234		uCi/g	n/a	<2.54E-06	<2.66E-06	n/a	n/a	n/a	n/a	2.66E-06	n/a	U
S10V000636			15046-84-1	Iodine-129		uCi/g	106	<2.36E-07	<2.72E-07	n/a	n/a	n/a	n/a	2.72E-07	n/a	U
S10V000637		O	120-82-1	1,2,4-Trichlorobenzene	UJ	ug/kg	72.4	<774	<77.3	n/a	n/a	n/a	n/a	77.3	n/a	U
S10V000637		O	95-50-1	1,2-Dichlorobenzene	UJ	ug/kg	n/a	<1.01E+03	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V000637		O	121-14-2	2,4-Dinitrotoluene		ug/kg	88.6	<381	<38.0	n/a	n/a	n/a	n/a	38.0	n/a	U
S10V000637		O	95-95-4	2,4,5-Trichlorophenol	UJ	ug/kg	n/a	<440	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S10V000637		O	88-06-2	2,4,6-Trichlorophenol	UJ	ug/kg	n/a	<495	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V000637		O	95-48-7	2-Methylphenol	UJ	ug/kg	n/a	<575	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S10V000637		O	88-75-5	2-Nitrophenol	UJ	ug/kg	n/a	<537	<53.6	n/a	n/a	n/a	n/a	53.6	n/a	U
S10V000637		O	65794-96-9	3 &4 Methylphenol	UJ	ug/kg	n/a	<514	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S10V000637		O	83-32-9	Acenaphthene		ug/kg	76.0	<176	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S10V000637		O	56-55-3	Benzo(a)anthracene		ug/kg	n/a	<378	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V000637		O	205-99-2	Benzo(b)fluoranthene		ug/kg	n/a	<489	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000637		O	50-32-8	Benzo(a)pyrene		ug/kg	n/a	<412	<41.1	n/a	n/a	n/a	n/a	41.1	n/a	U
S10V000637		O	117-81-7	Bis(2-ethylhexyl) phthalate	UJ	ug/kg	n/a	<5.90E+03	<589	n/a	n/a	n/a	n/a	589	n/a	U
S10V000637		O	207-08-9	Benzo(k)fluoranthene		ug/kg	n/a	<391	<39.0	n/a	n/a	n/a	n/a	39.0	n/a	U
S10V000637		O	85-68-7	Butylbenzylphthalate	80.4UJ	ug/kg	n/a	728	80.4	n/a	n/a	n/a	n/a	49.9	n/a	BJ
S10V000637		O	59-50-7	4-Chloro-3-methylphenol		ug/kg	75.6	<432	<43.1	n/a	n/a	n/a	n/a	43.1	n/a	U
S10V000637		O	95-57-8	2-Chlorophenol		ug/kg	74.0	<665	<66.4	n/a	n/a	n/a	n/a	66.4	n/a	U
S10V000637		O	218-01-9	Chrysene		ug/kg	n/a	<814	<81.3	n/a	n/a	n/a	n/a	81.3	n/a	U
S10V000637		O	53-70-3	Dibenz[a,h]anthracene		ug/kg	n/a	<511	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S10V000637		O	84-74-2	Di-n-butylphthalate	UJ	ug/kg	n/a	<5.62E+03	<561	n/a	n/a	n/a	n/a	561	n/a	U
S10V000637		O	117-84-0	Di-n-octylphthalate	UJ	ug/kg	n/a	<477	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S10V000637		O	621-64-7	N-Nitroso-di-n-dipropylamine	UJ	ug/kg	73.0	<581	<58.0	n/a	n/a	n/a	n/a	58.0	n/a	U
S10V000637		O	206-44-0	Fluoranthene		ug/kg	n/a	<354	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S10V000637		O	87-68-3	Hexachlorobutadiene	UJ	ug/kg	n/a	<697	<69.6	n/a	n/a	n/a	n/a	69.6	n/a	U
S10V000637		O	67-72-1	Hexachloroethane	UJ	ug/kg	n/a	<1.12E+03	<112	n/a	n/a	n/a	n/a	112	n/a	U
S10V000637		O	193-39-5	Indeno(1,2,3-cd)pyrene		ug/kg	n/a	<510	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S10V000637		O	91-20-3	Naphthalene		ug/kg	n/a	<626	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S10V000637		O	98-95-3	Nitrobenzene		ug/kg	n/a	<646	<64.5	n/a	n/a	n/a	n/a	64.5	n/a	U
S10V000637		O	129-00-0	Pyrene		ug/kg	99.7	<629	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S10V000637		O	110-86-1	Pyridine	UJ	ug/kg	n/a	<650	<64.9	n/a	n/a	n/a	n/a	64.9	n/a	U
S10V000637		O	126-73-8	Tributyl phosphate	UJ	ug/kg	n/a	<1.08E+03	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V000637		O	128-37-0	BHT		ug/kg	n/a	<2.36E+03	<235	n/a	n/a	n/a	n/a	235	n/a	U
S10V000637		O	110-80-5	2-Ethoxyethanol	UJ	ug/kg	n/a	<1.82E+03	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V000637		O	108-94-1	Cyclohexanone	UJ	ug/kg	n/a	<5.58E+03	<557	n/a	n/a	n/a	n/a	557	n/a	U
S10V000637		O	59-89-2	N-Nitrosomorpholine	UJ	ug/kg	n/a	<1.91E+03	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V000637		O	78-83-1	Isobutanol	UJ	ug/kg	n/a	<4.60E+03	<460	n/a	n/a	n/a	n/a	460	n/a	U
~~S10V000638~~		~~W~~	~~16984-48-8~~	~~Fluoride~~		~~ug/g~~	~~102~~	~~<1.61E-03~~	~~0.940~~	~~0.888~~	~~0.914~~	~~5.68~~	~~102~~	~~0.0165~~	~~n/a~~	
S10V000638		W	666-14-8	Glycolate		ug/g	98.2	<9.37E-03	<0.0960	<0.0984	n/a	n/a	96.8	0.0960	n/a	U
~~S10V000638~~		~~W~~	~~71-50-1~~	~~Acetate~~		~~ug/g~~	~~95.5~~	~~<6.04E-03~~	~~0.310~~	~~0.351~~	~~0.330~~	~~12.3~~	~~94.2~~	~~0.0619~~	~~n/a~~	~~J~~

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000406			%WATERA	%WATER-APD		%	n/a	n/a	3.930	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000406			57-12-5	Cyanide		ug/g	99.5	<0.0370	<2.62	n/a	n/a	n/a	n/a	2.62	n/a	U
S10V000406			7439-97-6	Mercury		ug/g	101	<1.00E-04	0.0171	n/a	n/a	n/a	n/a	8.94E-03	n/a	J
S10V000406			PH	pH		unitless	n/a	n/a	9.03	9.35	9.19	3.48	n/a	0.0100	n/a	
S10V000406			18496-25-8	Sulfide		ug/g	106	<0.180	17.0	n/a	n/a	n/a	n/a	7.18	n/a	J
S10V000654			13966-00-2	Potassium-40		uCi/g	n/a	<7.29E-06	1.01E-05	n/a	n/a	n/a	n/a	5.11E-06	33.70	J
S10V000654			10198-40-0	Cobalt-60		uCi/g	99.3	<2.87E-07	<2.57E-07	n/a	n/a	n/a	n/a	2.57E-07	n/a	U
S10V000654			14234-35-6	Antimony-125		uCi/g	n/a	<7.84E-07	<6.93E-07	n/a	n/a	n/a	n/a	6.93E-07	n/a	U
S10V000654			10045-97-3	Cesium-137		uCi/g	99.7	<3.71E-07	<3.29E-07	n/a	n/a	n/a	n/a	3.29E-07	n/a	U
S10V000654			14683-23-9	Europium-152		uCi/g	n/a	<1.61E-06	<1.21E-06	n/a	n/a	n/a	n/a	1.21E-06	n/a	U
S10V000654			15585-10-1	Europium-154		uCi/g	n/a	<9.14E-07	<8.36E-07	n/a	n/a	n/a	n/a	8.36E-07	n/a	U
S10V000654			14391-16-3	Europium-155		uCi/g	n/a	<4.78E-07	<4.46E-07	n/a	n/a	n/a	n/a	4.46E-07	n/a	U
S10V000654			15092-94-1	Lead-212		uCi/g	n/a	<4.24E-07	7.46E-07	n/a	n/a	n/a	n/a	3.95E-07	20.84	c
S10V000654			14733-03-0	Bismuth-214		uCi/g	n/a	<6.45E-07	8.44E-07	n/a	n/a	n/a	n/a	5.08E-07	37.33	J
S10V000654			14274-82-9	Thorium-228		uCi/g	n/a	<8.12E-06	<8.17E-06	n/a	n/a	n/a	n/a	8.17E-06	n/a	U
S10V000654			15065-10-8	Thorium-234		uCi/g	n/a	<2.54E-06	<2.71E-06	n/a	n/a	n/a	n/a	2.71E-06	n/a	U
S10V000654			15046-84-1	Iodine-129		uCi/g	106	<2.36E-07	<2.68E-07	n/a	n/a	n/a	n/a	2.68E-07	n/a	U
S10V000655		O	120-82-1	1,2,4-Trichlorobenzene	UJ	ug/kg	72.4	<774	<76.2	n/a	n/a	n/a	n/a	76.2	n/a	U
S10V000655		O	95-50-1	1,2-Dichlorobenzene	UJ	ug/kg	n/a	<1.01E+03	<99.1	n/a	n/a	n/a	n/a	99.1	n/a	U
S10V000655		O	121-14-2	2,4-Dinitrotoluene		ug/kg	88.6	<381	<37.5	n/a	n/a	n/a	n/a	37.5	n/a	U
S10V000655		O	95-95-4	2,4,5-Trichlorophenol	UJ	ug/kg	n/a	<440	<43.3	n/a	n/a	n/a	n/a	43.3	n/a	U
S10V000655		O	88-06-2	2,4,6-Trichlorophenol	UJ	ug/kg	n/a	<495	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S10V000655		O	95-48-7	2-Methylphenol	UJ	ug/kg	n/a	<575	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S10V000655		O	88-75-5	2-Nitrophenol	UJ	ug/kg	n/a	<537	<52.8	n/a	n/a	n/a	n/a	52.8	n/a	U
S10V000655		O	65794-96-9	3 &4 Methylphenol	UJ	ug/kg	n/a	<514	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S10V000655		O	83-32-9	Acenaphthene		ug/kg	76.0	<176	<17.3	n/a	n/a	n/a	n/a	17.3	n/a	U
S10V000655		O	56-55-3	Benzo(a)anthracene		ug/kg	n/a	<378	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U
S10V000655		O	205-99-2	Benzo(b)fluoranthene		ug/kg	n/a	<489	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000655		O	50-32-8	Benzo(a)pyrene		ug/kg	n/a	<412	<40.5	n/a	n/a	n/a	n/a	40.5	n/a	U
S10V000655		O	117-81-7	Bis(2-ethylhexyl) phthalate	UJ	ug/kg	n/a	<5.90E+03	<581	n/a	n/a	n/a	n/a	581	n/a	U
S10V000655		O	207-08-9	Benzo(k)fluoranthene		ug/kg	n/a	<391	<38.5	n/a	n/a	n/a	n/a	38.5	n/a	U
S10V000655		O	85-68-7	Butylbenzylphthalate	76.2UJ	ug/kg	n/a	728	76.2	n/a	n/a	n/a	n/a	49.2	n/a	BJ
S10V000655		O	59-50-7	4-Chloro-3-methylphenol		ug/kg	75.6	<432	<42.5	n/a	n/a	n/a	n/a	42.5	n/a	U
S10V000655		O	95-57-8	2-Chlorophenol		ug/kg	74.0	<665	<65.4	n/a	n/a	n/a	n/a	65.4	n/a	U
S10V000655		O	218-01-9	Chrysene		ug/kg	n/a	<814	<80.1	n/a	n/a	n/a	n/a	80.1	n/a	U
S10V000655		O	53-70-3	Dibenz[a,h]anthracene		ug/kg	n/a	<511	<50.3	n/a	n/a	n/a	n/a	50.3	n/a	U
S10V000655		O	84-74-2	Di-n-butylphthalate	UJ	ug/kg	n/a	<5.62E+03	<553	n/a	n/a	n/a	n/a	553	n/a	U
S10V000655		O	117-84-0	Di-n-octylphthalate	UJ	ug/kg	n/a	<477	<46.9	n/a	n/a	n/a	n/a	46.9	n/a	U
S10V000655		O	621-64-7	N-Nitroso-di-n-dipropylamine	UJ	ug/kg	73.0	<581	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S10V000655		O	206-44-0	Fluoranthene		ug/kg	n/a	<354	<34.8	n/a	n/a	n/a	n/a	34.8	n/a	U
S10V000655		O	87-68-3	Hexachlorobutadiene	UJ	ug/kg	n/a	<697	<68.6	n/a	n/a	n/a	n/a	68.6	n/a	U
S10V000655		O	67-72-1	Hexachloroethane	UJ	ug/kg	n/a	<1.12E+03	<110	n/a	n/a	n/a	n/a	110	n/a	U
S10V000655		O	193-39-5	Indeno(1,2,3-cd)pyrene		ug/kg	n/a	<510	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S10V000655		O	91-20-3	Naphthalene		ug/kg	n/a	<626	<61.6	n/a	n/a	n/a	n/a	61.6	n/a	U
S10V000655		O	98-95-3	Nitrobenzene		ug/kg	n/a	<646	<63.6	n/a	n/a	n/a	n/a	63.6	n/a	U
S10V000655		O	129-00-0	Pyrene		ug/kg	99.7	<629	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S10V000655		O	110-86-1	Pyridine	UJ	ug/kg	n/a	<650	<64.0	n/a	n/a	n/a	n/a	64.0	n/a	U
S10V000655		O	126-73-8	Tributyl phosphate	UJ	ug/kg	n/a	<1.08E+03	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V000655		O	128-37-0	BHT		ug/kg	n/a	<2.36E+03	<232	n/a	n/a	n/a	n/a	232	n/a	U
S10V000655		O	110-80-5	2-Ethoxyethanol	UJ	ug/kg	n/a	<1.82E+03	<179	n/a	n/a	n/a	n/a	179	n/a	U
S10V000655		O	108-94-1	Cyclohexanone	UJ	ug/kg	n/a	<5.58E+03	<549	n/a	n/a	n/a	n/a	549	n/a	U
S10V000655		O	59-89-2	N-Nitrosomorpholine	UJ	ug/kg	n/a	<1.91E+03	<188	n/a	n/a	n/a	n/a	188	n/a	U
S10V000655		O	78-83-1	Isobutanol	UJ	ug/kg	n/a	<4.60E+03	<453	n/a	n/a	n/a	n/a	453	n/a	U
~~S10V000656~~		~~W~~	~~16984-48-8~~	~~Fluoride~~		~~ug/g~~	~~102~~	~~<1.61E-03~~	~~1.13~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.0163~~	~~n/a~~	
S10V000656		W	666-14-8	Glycolate		ug/g	98.2	<9.37E-03	<0.0951	n/a	n/a	n/a	n/a	0.0951	n/a	U
~~S10V000656~~		~~W~~	~~71-50-1~~	~~Acetate~~		~~ug/g~~	~~95.5~~	~~<6.04E-03~~	~~0.467~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.0613~~	~~n/a~~	~~J~~

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a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000407~~			~~%WATERA~~	~~%WATER-APD~~		~~%~~	~~n/a~~	~~n/a~~	~~7.240~~	~~7.650~~	~~7.445~~	~~5.507~~	~~n/a~~	~~0.01000~~	~~n/a~~	
S10V000407			57-12-5	Cyanide		ug/g	99.5	<0.0370	<2.58	n/a	n/a	n/a	n/a	2.58	n/a	U
S10V000407			7439-97-6	Mercury		ug/g	101	<1.00E-04	<8.00E-03	n/a	n/a	n/a	n/a	8.00E-03	n/a	U
S10V000407			PH	pH		unitless	n/a	n/a	9.19	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000407			18496-25-8	Sulfide		ug/g	106	<0.180	14.5	n/a	n/a	n/a	n/a	7.19	n/a	J
S10V000663			13966-00-2	Potassium-40		uCi/g	n/a	<7.29E-06	1.32E-05	n/a	n/a	n/a	n/a	7.51E-06	37.54	J
S10V000663			10198-40-0	Cobalt-60		uCi/g	99.3	<2.87E-07	<3.76E-07	n/a	n/a	n/a	n/a	3.76E-07	n/a	U
S10V000663			14234-35-6	Antimony-125		uCi/g	n/a	<7.84E-07	<9.67E-07	n/a	n/a	n/a	n/a	9.67E-07	n/a	U
S10V000663			10045-97-3	Cesium-137		uCi/g	99.7	<3.71E-07	<4.99E-07	n/a	n/a	n/a	n/a	4.99E-07	n/a	U
S10V000663			14683-23-9	Europium-152		uCi/g	n/a	<1.61E-06	<1.91E-06	n/a	n/a	n/a	n/a	1.91E-06	n/a	U
S10V000663			15585-10-1	Europium-154		uCi/g	n/a	<9.14E-07	<1.19E-06	n/a	n/a	n/a	n/a	1.19E-06	n/a	U
S10V000663			14391-16-3	Europium-155		uCi/g	n/a	<4.78E-07	<6.28E-07	n/a	n/a	n/a	n/a	6.28E-07	n/a	U
S10V000663			15092-94-1	Lead-212		uCi/g	n/a	<4.24E-07	7.65E-07	n/a	n/a	n/a	n/a	7.12E-07	37.49	Jc
S10V000663			15067-28-4	Lead-214		uCi/g	n/a	<5.69E-07	8.76E-07	n/a	n/a	n/a	n/a	8.69E-07	40.40	J
S10V000663			14274-82-9	Thorium-228		uCi/g	n/a	<8.12E-06	<1.18E-05	n/a	n/a	n/a	n/a	1.18E-05	n/a	U
S10V000663			15065-10-8	Thorium-234		uCi/g	n/a	<2.54E-06	<4.06E-06	n/a	n/a	n/a	n/a	4.06E-06	n/a	U
~~S10V000663~~			~~15046-84-1~~	~~Iodine-129~~		~~uCi/g~~	~~106~~	~~<2.36E-07~~	~~<2.35E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.35E-07~~	~~n/a~~	~~U~~
S10V000664		O	120-82-1	1,2,4-Trichlorobenzene	UJ	ug/kg	72.4	<774	<75.4	n/a	n/a	n/a	65.9	75.4	n/a	U
S10V000664		O	95-50-1	1,2-Dichlorobenzene	UJ	ug/kg	n/a	<1.01E+03	<98.0	n/a	n/a	n/a	n/a	98.0	n/a	U
S10V000664		O	121-14-2	2,4-Dinitrotoluene		ug/kg	88.6	<381	<37.1	n/a	n/a	n/a	90.8	37.1	n/a	U
S10V000664		O	95-95-4	2,4,5-Trichlorophenol	UJ	ug/kg	n/a	<440	<42.8	n/a	n/a	n/a	n/a	42.8	n/a	U
S10V000664		O	88-06-2	2,4,6-Trichlorophenol	UJ	ug/kg	n/a	<495	<48.2	n/a	n/a	n/a	n/a	48.2	n/a	U
S10V000664		O	95-48-7	2-Methylphenol	UJ	ug/kg	n/a	<575	<56.0	n/a	n/a	n/a	n/a	56.0	n/a	U
S10V000664		O	88-75-5	2-Nitrophenol	UJ	ug/kg	n/a	<537	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S10V000664		O	65794-96-9	3 &4 Methylphenol	UJ	ug/kg	n/a	<514	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S10V000664		O	83-32-9	Acenaphthene		ug/kg	76.0	<176	<17.1	n/a	n/a	n/a	74.8	17.1	n/a	U
S10V000664		O	56-55-3	Benzo(a)anthracene		ug/kg	n/a	<378	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U
S10V000664		O	205-99-2	Benzo(b)fluoranthene		ug/kg	n/a	<489	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U

NA = Not Analyzed, ND = Not Detected

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000664		O	50-32-8	Benzo(a)pyrene		ug/kg	n/a	<412	<40.1	n/a	n/a	n/a	n/a	40.1	n/a	U
S10V000664		O	117-81-7	Bis(2-ethylhexyl) phthalate	UJ	ug/kg	n/a	<5.90E+03	<575	n/a	n/a	n/a	n/a	575	n/a	U
S10V000664		O	207-08-9	Benzo(k)fluoranthene		ug/kg	n/a	<391	<38.1	n/a	n/a	n/a	n/a	38.1	n/a	U
S10V000664		O	85-68-7	Butylbenzylphthalate	74.2UJ	ug/kg	n/a	728	74.2	n/a	n/a	n/a	n/a	48.7	n/a	BJ
S10V000664		O	59-50-7	4-Chloro-3-methylphenol		ug/kg	75.6	<432	<42.1	n/a	n/a	n/a	82.4	42.1	n/a	U
S10V000664		O	95-57-8	2-Chlorophenol		ug/kg	74.0	<665	<64.7	n/a	n/a	n/a	72.0	64.7	n/a	U
S10V000664		O	218-01-9	Chrysene		ug/kg	n/a	<814	<79.2	n/a	n/a	n/a	n/a	79.2	n/a	U
S10V000664		O	53-70-3	Dibenz[a,h]anthracene		ug/kg	n/a	<511	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S10V000664		O	84-74-2	Di-n-butylphthalate	UJ	ug/kg	n/a	<5.62E+03	<547	n/a	n/a	n/a	n/a	547	n/a	U
S10V000664		O	117-84-0	Di-n-octylphthalate	UJ	ug/kg	n/a	<477	<46.4	n/a	n/a	n/a	n/a	46.4	n/a	U
S10V000664		O	621-64-7	N-Nitroso-di-n-dipropylamine	UJ	ug/kg	73.0	<581	<56.6	n/a	n/a	n/a	65.7	56.6	n/a	U
S10V000664		O	206-44-0	Fluoranthene		ug/kg	n/a	<354	<34.5	n/a	n/a	n/a	n/a	34.5	n/a	U
S10V000664		O	87-68-3	Hexachlorobutadiene	UJ	ug/kg	n/a	<697	<67.9	n/a	n/a	n/a	n/a	67.9	n/a	U
S10V000664		O	67-72-1	Hexachloroethane	UJ	ug/kg	n/a	<1.12E+03	<109	n/a	n/a	n/a	n/a	109	n/a	U
S10V000664		O	193-39-5	Indeno(1,2,3-cd)pyrene		ug/kg	n/a	<510	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S10V000664		O	91-20-3	Naphthalene		ug/kg	n/a	<626	<60.9	n/a	n/a	n/a	n/a	60.9	n/a	U
S10V000664		O	98-95-3	Nitrobenzene		ug/kg	n/a	<646	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	U
S10V000664		O	129-00-0	Pyrene		ug/kg	99.7	<629	<61.2	n/a	n/a	n/a	92.9	61.2	n/a	U
S10V000664		O	110-86-1	Pyridine	UJ	ug/kg	n/a	<650	<63.3	n/a	n/a	n/a	n/a	63.3	n/a	U
S10V000664		O	126-73-8	Tributyl phosphate	UJ	ug/kg	n/a	<1.08E+03	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V000664		O	128-37-0	BHT		ug/kg	n/a	<2.36E+03	<229	n/a	n/a	n/a	n/a	229	n/a	U
S10V000664		O	110-80-5	2-Ethoxyethanol	UJ	ug/kg	n/a	<1.82E+03	<178	n/a	n/a	n/a	n/a	178	n/a	U
S10V000664		O	108-94-1	Cyclohexanone	UJ	ug/kg	n/a	<5.58E+03	<543	n/a	n/a	n/a	n/a	543	n/a	U
S10V000664		O	59-89-2	N-Nitrosomorpholine	UJ	ug/kg	n/a	<1.91E+03	<186	n/a	n/a	n/a	n/a	186	n/a	U
S10V000664		O	78-83-1	Isobutanol	UJ	ug/kg	n/a	<4.60E+03	<448	n/a	n/a	n/a	n/a	448	n/a	U
~~S10V000665~~		~~W~~	~~16984-48-8~~	~~Fluoride~~		~~ug/g~~	~~102~~	~~<1.61E-03~~	~~1.73~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.0163~~	~~n/a~~	
S10V000665		W	666-14-8	Glycolate		ug/g	98.2	~~<9.37E-03~~	<0.0948	n/a	n/a	n/a	n/a	0.0948	n/a	U
~~S10V000665~~		~~W~~	~~71-50-1~~	~~Acetate~~		~~ug/g~~	~~95.5~~	~~<6.04E-03~~	~~0.474~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.0611~~	~~n/a~~	~~J~~

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000408~~			~~%WATERA~~	~~%WATER-APD~~		~~%~~	~~n/a~~	~~n/a~~	~~3.350~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.01000~~	~~n/a~~	
S10V000408			57-12-5	Cyanide		ug/g	88.8	<0.0370	<3.08	n/a	n/a	n/a	n/a	3.08	n/a	U
S10V000408			7439-97-6	Mercury		ug/g	103	<1.00E-04	<8.41E-03	n/a	n/a	n/a	98.8	8.41E-03	n/a	U
S10V000408			PH	pH		unitless	n/a	n/a	8.73	8.75	8.74	0.229	n/a	0.0100	n/a	
S10V000408			18496-25-8	Sulfide		ug/g	94.7	<0.180	7.21	7.91	7.56	9.16	101	7.17	n/a	J
S10V000672			13966-00-2	Potassium-40		uCi/g	n/a	<7.29E-06	1.10E-05	1.89E-05	1.50E-05	53.1	n/a	6.01E-06	36.08	J
S10V000672			10198-40-0	Cobalt-60		uCi/g	99.3	<2.87E-07	<2.98E-07	<3.78E-07	n/a	n/a	n/a	2.98E-07	n/a	U
S10V000672			14234-35-6	Antimony-125		uCi/g	n/a	<7.84E-07	<8.02E-07	<9.81E-07	n/a	n/a	n/a	8.02E-07	n/a	U
S10V000672			10045-97-3	Cesium-137		uCi/g	99.7	<3.71E-07	<3.54E-07	<5.08E-07	n/a	n/a	n/a	3.54E-07	n/a	U
S10V000672			14683-23-9	Europium-152		uCi/g	n/a	<1.61E-06	<1.27E-06	<1.98E-06	n/a	n/a	n/a	1.27E-06	n/a	U
S10V000672			15585-10-1	Europium-154		uCi/g	n/a	<9.14E-07	<9.56E-07	<1.27E-06	n/a	n/a	n/a	9.56E-07	n/a	U
S10V000672			14391-16-3	Europium-155		uCi/g	n/a	<4.78E-07	<5.03E-07	<6.62E-07	n/a	n/a	n/a	5.03E-07	n/a	U
S10V000672			15092-94-1	Lead-212		uCi/g	n/a	<4.24E-07	7.72E-07	1.34E-06	1.06E-06	54.1	n/a	5.60E-07	23.60	c
S10V000672			14274-82-9	Thorium-228		uCi/g	n/a	<8.12E-06	<9.20E-06	<1.25E-05	n/a	n/a	n/a	9.20E-06	n/a	U
S10V000672			15065-10-8	Thorium-234		uCi/g	n/a	<2.54E-06	<3.16E-06	<4.38E-06	n/a	n/a	n/a	3.16E-06	n/a	U
~~S10V000672~~			~~15046-84-1~~	~~Iodine-129~~		~~uCi/g~~	~~106~~	~~<2.36E-07~~	~~<2.56E-07~~	~~<2.16E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.56E-07~~	~~n/a~~	~~U~~
S10V000673	O		120-82-1	1,2,4-Trichlorobenzene	UJ	ug/kg	63.8	<77.4	<77.0	n/a	n/a	n/a	66.7	77.0	n/a	U
S10V000673	O		95-50-1	1,2-Dichlorobenzene	UJ	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S10V000673	O		121-14-2	2,4-Dinitrotoluene		ug/kg	80.3	<38.1	<37.9	n/a	n/a	n/a	80.7	37.9	n/a	U
S10V000673	O		95-95-4	2,4,5-Trichlorophenol	UJ	ug/kg	n/a	<44.0	<43.8	n/a	n/a	n/a	n/a	43.8	n/a	U
S10V000673	O		88-06-2	2,4,6-Trichlorophenol	UJ	ug/kg	n/a	<49.5	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S10V000673	O		95-48-7	2-Methylphenol	UJ	ug/kg	n/a	<57.5	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S10V000673	O		88-75-5	2-Nitrophenol	UJ	ug/kg	n/a	<53.7	<53.4	n/a	n/a	n/a	n/a	53.4	n/a	U
S10V000673	O		65794-96-9	3 &4 Methylphenol	UJ	ug/kg	n/a	<51.4	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S10V000673	O		83-32-9	Acenaphthene	UJ	ug/kg	67.9	<17.6	<17.5	n/a	n/a	n/a	70.7	17.5	n/a	U
S10V000673	O		56-55-3	Benzo(a)anthracene		ug/kg	n/a	<37.8	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S10V000673	O		205-99-2	Benzo(b)fluoranthene		ug/kg	n/a	<48.9	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S10V000673	O		50-32-8	Benzo(a)pyrene		ug/kg	n/a	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000673		O	117-81-7	Bis(2-ethylhexyl) phthalate	UJ	ug/kg	n/a	<590	<587	n/a	n/a	n/a	n/a	587	n/a	U
S10V000673		O	207-08-9	Benzo(k)fluoranthene		ug/kg	n/a	<39.1	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S10V000673		O	85-68-7	Butylbenzylphthalate	75.6UJ	ug/kg	n/a	74.0	75.6	n/a	n/a	n/a	n/a	49.7	n/a	BJ
S10V000673		O	59-50-7	4-Chloro-3-methylphenol	UJ	ug/kg	67.8	<43.2	<43.0	n/a	n/a	n/a	75.1	43.0	n/a	U
S10V000673		O	95-57-8	2-Chlorophenol	UJ	ug/kg	66.3	<66.5	<66.2	n/a	n/a	n/a	68.3	66.2	n/a	U
S10V000673		O	218-01-9	Chrysene		ug/kg	n/a	<81.4	<81.0	n/a	n/a	n/a	n/a	81.0	n/a	U
S10V000673		O	53-70-3	Dibenz[a,h]anthracene		ug/kg	n/a	<51.1	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V000673		O	84-74-2	Di-n-butylphthalate	UJ	ug/kg	n/a	<562	<559	n/a	n/a	n/a	n/a	559	n/a	U
S10V000673		O	117-84-0	Di-n-octylphthalate	UJ	ug/kg	n/a	<47.7	<47.5	n/a	n/a	n/a	n/a	47.5	n/a	U
S10V000673		O	621-64-7	N-Nitroso-di-n-dipropylamine	UJ	ug/kg	61.6	<58.1	<57.8	n/a	n/a	n/a	67.2	57.8	n/a	U
S10V000673		O	206-44-0	Fluoranthene	UJ	ug/kg	n/a	<35.4	<35.2	n/a	n/a	n/a	n/a	35.2	n/a	U
S10V000673		O	87-68-3	Hexachlorobutadiene	UJ	ug/kg	n/a	<69.7	<69.3	n/a	n/a	n/a	n/a	69.3	n/a	U
S10V000673		O	67-72-1	Hexachloroethane	UJ	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V000673		O	193-39-5	Indeno(1,2,3-cd)pyrene		ug/kg	n/a	<51.0	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U
S10V000673		O	91-20-3	Naphthalene	UJ	ug/kg	n/a	<62.6	<62.3	n/a	n/a	n/a	n/a	62.3	n/a	U
S10V000673		O	98-95-3	Nitrobenzene		ug/kg	n/a	<64.6	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S10V000673		O	129-00-0	Pyrene		ug/kg	n/a	<62.9	<62.6	n/a	n/a	n/a	81.8	62.6	n/a	U
S10V000673		O	110-86-1	Pyridine	UJ	ug/kg	n/a	<65.0	<64.7	n/a	n/a	n/a	n/a	64.7	n/a	U
S10V000673		O	126-73-8	Tributyl phosphate	UJ	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V000673		O	128-37-0	BHT		ug/kg	n/a	<236	<234	n/a	n/a	n/a	n/a	234	n/a	U
S10V000673		O	110-80-5	2-Ethoxyethanol	UJ	ug/kg	n/a	<182	<181	n/a	n/a	n/a	n/a	181	n/a	U
S10V000673		O	1319-77-3	Total Methylphenols	UJ	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V000673		O	108-94-1	Cyclohexanone	UJ	ug/kg	n/a	<558	<555	n/a	n/a	n/a	n/a	555	n/a	U
S10V000673		O	59-89-2	N-Nitrosomorpholine	UJ	ug/kg	n/a	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S10V000673		O	78-83-1	Isobutanol	UJ	ug/kg	n/a	<460	<458	n/a	n/a	n/a	n/a	458	n/a	U
~~S10V000674~~		~~W~~	~~16984-48-8~~	~~Fluoride~~		~~ug/g~~	~~106~~	~~<1.61E-03~~	~~1.41~~	~~1.41~~	~~1.41~~	~~0.0569~~	~~104~~	~~0.0165~~	~~n/a~~	
S10V000674		W	666-14-8	Glycolate		ug/g	102	<9.37E-03	<0.0958	<0.0959	n/a	n/a	99.0	0.0958	n/a	U
~~S10V000674~~		~~W~~	~~71-50-1~~	~~Acetate~~		~~ug/g~~	~~102~~	~~<6.04E-03~~	~~0.399~~	~~0.430~~	~~0.414~~	~~7.47~~	~~96.3~~	~~0.0617~~	~~n/a~~	~~J~~

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR7
Sample Depth: 163-165

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000376~~			~~75-69-4~~	~~Trichlorofluoromethane~~		~~ug/kg~~	~~n/a~~	~~<0.0940~~	~~<0.0845~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.0845~~	~~n/a~~	~~U~~
S10V000376			95-47-6	o-Xylene		ug/kg	n/a	<0.0920	<0.0827	n/a	n/a	n/a	n/a	0.0827	n/a	U
~~S10V000376~~			~~179601-23-1~~	~~m,p-Xylene~~		~~ug/kg~~	~~n/a~~	~~<0.167~~	~~<0.151~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.151~~	~~n/a~~	~~U~~
S10V000682		O	120-82-1	1,2,4-Trichlorobenzene	UJ	ug/kg	63.8	<77.4	<75.8	n/a	n/a	n/a	n/a	75.8	n/a	U
S10V000682		O	95-50-1	1,2-Dichlorobenzene	UJ	ug/kg	n/a	<101	<98.6	n/a	n/a	n/a	n/a	98.6	n/a	U
S10V000682		O	121-14-2	2,4-Dinitrotoluene		ug/kg	80.3	<38.1	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S10V000682		O	95-95-4	2,4,5-Trichlorophenol	UJ	ug/kg	n/a	<44.0	<43.1	n/a	n/a	n/a	n/a	43.1	n/a	U
S10V000682		O	88-06-2	2,4,6-Trichlorophenol	UJ	ug/kg	n/a	<49.5	<48.5	n/a	n/a	n/a	n/a	48.5	n/a	U
S10V000682		O	95-48-7	2-Methylphenol	UJ	ug/kg	n/a	<57.5	<56.3	n/a	n/a	n/a	n/a	56.3	n/a	U
S10V000682		O	88-75-5	2-Nitrophenol	UJ	ug/kg	n/a	<53.7	<52.6	n/a	n/a	n/a	n/a	52.6	n/a	U
S10V000682		O	65794-96-9	3 &4 Methylphenol	UJ	ug/kg	n/a	<51.4	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S10V000682		O	83-32-9	Acenaphthene	UJ	ug/kg	67.9	<17.6	<17.2	n/a	n/a	n/a	n/a	17.2	n/a	U
S10V000682		O	56-55-3	Benzo(a)anthracene		ug/kg	n/a	<37.8	<37.0	n/a	n/a	n/a	n/a	37.0	n/a	U
S10V000682		O	205-99-2	Benzo(b)fluoranthene		ug/kg	n/a	<48.9	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S10V000682		O	50-32-8	Benzo(a)pyrene		ug/kg	n/a	<41.2	<40.4	n/a	n/a	n/a	n/a	40.4	n/a	U
S10V000682		O	117-81-7	Bis(2-ethylhexyl) phthalate	UJ	ug/kg	n/a	<590	<578	n/a	n/a	n/a	n/a	578	n/a	U
S10V000682		O	207-08-9	Benzo(k)fluoranthene		ug/kg	n/a	<39.1	<38.3	n/a	n/a	n/a	n/a	38.3	n/a	U
S10V000682		O	85-68-7	Butylbenzylphthalate	84.4UJ	ug/kg	n/a	74.0	84.4	n/a	n/a	n/a	n/a	49.0	n/a	BJ
S10V000682		O	59-50-7	4-Chloro-3-methylphenol	UJ	ug/kg	67.8	<43.2	<42.3	n/a	n/a	n/a	n/a	42.3	n/a	U
S10V000682		O	95-57-8	2-Chlorophenol	UJ	ug/kg	66.3	<66.5	<65.1	n/a	n/a	n/a	n/a	65.1	n/a	U
S10V000682		O	218-01-9	Chrysene		ug/kg	n/a	<81.4	<79.7	n/a	n/a	n/a	n/a	79.7	n/a	U
S10V000682		O	53-70-3	Dibenz[a,h]anthracene		ug/kg	n/a	<51.1	<50.1	n/a	n/a	n/a	n/a	50.1	n/a	U
S10V000682		O	84-74-2	Di-n-butylphthalate	UJ	ug/kg	n/a	<562	<551	n/a	n/a	n/a	n/a	551	n/a	U
S10V000682		O	117-84-0	Di-n-octylphthalate	UJ	ug/kg	n/a	<47.7	<46.7	n/a	n/a	n/a	n/a	46.7	n/a	U
S10V000682		O	621-64-7	N-Nitroso-di-n-dipropylamine	UJ	ug/kg	61.6	<58.1	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S10V000682		O	206-44-0	Fluoranthene	UJ	ug/kg	n/a	<35.4	<34.7	n/a	n/a	n/a	n/a	34.7	n/a	U
S10V000682		O	87-68-3	Hexachlorobutadiene	UJ	ug/kg	n/a	<69.7	<68.3	n/a	n/a	n/a	n/a	68.3	n/a	U
S10V000682		O	67-72-1	Hexachloroethane	UJ	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR7
Sample Depth: 163-165

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000682		O	193-39-5	Indeno(1,2,3-cd)pyrene		ug/kg	n/a	<51.0	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S10V000682		O	91-20-3	Naphthalene	UJ	ug/kg	n/a	<62.6	<61.3	n/a	n/a	n/a	n/a	61.3	n/a	U
S10V000682		O	98-95-3	Nitrobenzene		ug/kg	n/a	<64.6	<63.3	n/a	n/a	n/a	n/a	63.3	n/a	U
S10V000682		O	129-00-0	Pyrene		ug/kg	n/a	<62.9	<61.6	n/a	n/a	n/a	n/a	61.6	n/a	U
S10V000682		O	110-86-1	Pyridine	UJ	ug/kg	n/a	<65.0	<63.7	n/a	n/a	n/a	n/a	63.7	n/a	U
S10V000682		O	126-73-8	Tributyl phosphate	UJ	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V000682		O	128-37-0	BHT		ug/kg	n/a	<236	<231	n/a	n/a	n/a	n/a	231	n/a	U
S10V000682		O	110-80-5	2-Ethoxyethanol	UJ	ug/kg	n/a	<182	<179	n/a	n/a	n/a	n/a	179	n/a	U
S10V000682		O	1319-77-3	Total Methylphenols	UJ	ug/kg	n/a	<107	<104	n/a	n/a	n/a	n/a	104	n/a	U
S10V000682		O	108-94-1	Cyclohexanone	UJ	ug/kg	n/a	<558	<547	n/a	n/a	n/a	n/a	547	n/a	U
S10V000682		O	59-89-2	N-Nitrosomorpholine	UJ	ug/kg	n/a	<191	<187	n/a	n/a	n/a	n/a	187	n/a	U
S10V000682		O	78-83-1	Isobutanol	UJ	ug/kg	n/a	<460	<451	n/a	n/a	n/a	n/a	451	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000410			%WATERA	%WATER-APD		%	n/a	n/a	4.720	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000410			57-12-5	Cyanide		ug/g	88.8	<0.0370	<2.80	n/a	n/a	n/a	n/a	2.80	n/a	U
S10V000410			7439-97-6	Mercury		ug/g	103	<1.00E-04	0.0681	n/a	n/a	n/a	n/a	8.38E-03	n/a	J
S10V000410			PH	pH		unitless	n/a	n/a	8.67	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000410			18496-25-8	Sulfide		ug/g	81.2	<0.180	<7.21	n/a	n/a	n/a	n/a	7.21	n/a	U
S10V000690			13966-00-2	Potassium-40		uCi/g	n/a	<7.29E-06	1.26E-05	n/a	n/a	n/a	n/a	5.54E-06	29.69	
S10V000690			10198-40-0	Cobalt-60		uCi/g	99.3	<2.87E-07	<2.74E-07	n/a	n/a	n/a	n/a	2.74E-07	n/a	U
S10V000690			14234-35-6	Antimony-125		uCi/g	n/a	<7.84E-07	<7.47E-07	n/a	n/a	n/a	n/a	7.47E-07	n/a	U
S10V000690			10045-97-3	Cesium-137		uCi/g	99.7	<3.71E-07	<3.42E-07	n/a	n/a	n/a	n/a	3.42E-07	n/a	U
S10V000690			14683-23-9	Europium-152		uCi/g	n/a	<1.61E-06	<1.40E-06	n/a	n/a	n/a	n/a	1.40E-06	n/a	U
S10V000690			15585-10-1	Europium-154		uCi/g	n/a	<9.14E-07	<8.96E-07	n/a	n/a	n/a	n/a	8.96E-07	n/a	U
S10V000690			14391-16-3	Europium-155		uCi/g	n/a	<4.78E-07	<4.70E-07	n/a	n/a	n/a	n/a	4.70E-07	n/a	U
S10V000690			15092-94-1	Lead-212		uCi/g	n/a	<4.24E-07	4.82E-07	n/a	n/a	n/a	n/a	4.80E-07	42.70	Jc
S10V000690			14274-82-9	Thorium-228		uCi/g	n/a	<8.12E-06	<8.71E-06	n/a	n/a	n/a	n/a	8.71E-06	n/a	U
S10V000690			15065-10-8	Thorium-234		uCi/g	n/a	<2.54E-06	<2.86E-06	n/a	n/a	n/a	n/a	2.86E-06	n/a	U
S10V000690			15046-84-1	Iodine-129		uCi/g	106	<2.36E-07	<2.24E-07	n/a	n/a	n/a	n/a	2.24E-07	n/a	U
S10V000691		O	120-82-1	1,2,4-Trichlorobenzene		ug/kg	76.2	<77.4	<75.0	n/a	n/a	n/a	79.3	75.0	n/a	U
S10V000691		O	95-50-1	1,2-Dichlorobenzene	UJ	ug/kg	n/a	<101	<97.5	n/a	n/a	n/a	n/a	97.5	n/a	U
S10V000691		O	121-14-2	2,4-Dinitrotoluene		ug/kg	102	<38.1	<36.9	n/a	n/a	n/a	106	36.9	n/a	U
S10V000691		O	95-95-4	2,4,5-Trichlorophenol	UJ	ug/kg	n/a	<44.0	<42.6	n/a	n/a	n/a	n/a	42.6	n/a	U
S10V000691		O	88-06-2	2,4,6-Trichlorophenol	UJ	ug/kg	n/a	<49.5	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S10V000691		O	95-48-7	2-Methylphenol	UJ	ug/kg	n/a	<57.5	<55.7	n/a	n/a	n/a	n/a	55.7	n/a	U
S10V000691		O	88-75-5	2-Nitrophenol	UJ	ug/kg	n/a	<53.7	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S10V000691		O	65794-96-9	3 &4 Methylphenol	UJ	ug/kg	n/a	<51.4	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S10V000691		O	83-32-9	Acenaphthene		ug/kg	83.7	<17.6	<17.0	n/a	n/a	n/a	94.3	17.0	n/a	U
S10V000691		O	56-55-3	Benzo(a)anthracene		ug/kg	n/a	<37.8	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S10V000691		O	205-99-2	Benzo(b)fluoranthene		ug/kg	n/a	<48.9	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U
S10V000691		O	50-32-8	Benzo(a)pyrene		ug/kg	n/a	<41.2	<39.9	n/a	n/a	n/a	n/a	39.9	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000691		O	117-81-7	Bis(2-ethylhexyl) phthalate	UJ	ug/kg	n/a	<590	<572	n/a	n/a	n/a	n/a	572	n/a	U
S10V000691		O	207-08-9	Benzo(k)fluoranthene		ug/kg	n/a	<39.1	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S10V000691		O	85-68-7	Butylbenzylphthalate		ug/kg	n/a	<50.0	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S10V000691		O	59-50-7	4-Chloro-3-methylphenol		ug/kg	95.9	<43.2	<41.8	n/a	n/a	n/a	108	41.8	n/a	Ub
S10V000691		O	95-57-8	2-Chlorophenol		ug/kg	79.3	<66.5	<64.4	n/a	n/a	n/a	84.0	64.4	n/a	U
S10V000691		O	218-01-9	Chrysene		ug/kg	n/a	<81.4	<78.8	n/a	n/a	n/a	n/a	78.8	n/a	U
S10V000691		O	53-70-3	Dibenz[a,h]anthracene		ug/kg	n/a	<51.1	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S10V000691		O	84-74-2	Di-n-butylphthalate	UJ	ug/kg	n/a	<562	<545	n/a	n/a	n/a	n/a	545	n/a	U
S10V000691		O	117-84-0	Di-n-octylphthalate	J	ug/kg	n/a	<47.7	1.22E+03	n/a	n/a	n/a	n/a	46.2	n/a	
S10V000691		O	621-64-7	N-Nitroso-di-n-dipropylamine		ug/kg	70.4	<58.1	<56.3	n/a	n/a	n/a	73.7	56.3	n/a	U
S10V000691		O	206-44-0	Fluoranthene		ug/kg	n/a	<35.4	<34.3	n/a	n/a	n/a	n/a	34.3	n/a	U
S10V000691		O	87-68-3	Hexachlorobutadiene	UJ	ug/kg	n/a	<69.7	<67.5	n/a	n/a	n/a	n/a	67.5	n/a	U
S10V000691		O	67-72-1	Hexachloroethane	UJ	ug/kg	n/a	<112	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V000691		O	193-39-5	Indeno(1,2,3-cd)pyrene		ug/kg	n/a	<51.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V000691		O	91-20-3	Naphthalene		ug/kg	n/a	<62.6	<60.6	n/a	n/a	n/a	n/a	60.6	n/a	U
S10V000691		O	98-95-3	Nitrobenzene		ug/kg	n/a	<64.6	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S10V000691		O	129-00-0	Pyrene		ug/kg	110	<62.9	<60.9	n/a	n/a	n/a	101	60.9	n/a	U
S10V000691		O	110-86-1	Pyridine	UJ	ug/kg	n/a	<65.0	<63.0	n/a	n/a	n/a	n/a	63.0	n/a	U
S10V000691		O	126-73-8	Tributyl phosphate	UJ	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S10V000691		O	128-37-0	BHT		ug/kg	n/a	<236	<228	n/a	n/a	n/a	n/a	228	n/a	U
S10V000691		O	110-80-5	2-Ethoxyethanol	UJ	ug/kg	n/a	<182	<177	n/a	n/a	n/a	n/a	177	n/a	U
S10V000691		O	1319-77-3	Total Methylphenols	UJ	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U
S10V000691		O	108-94-1	Cyclohexanone	UJ	ug/kg	n/a	<558	<541	n/a	n/a	n/a	n/a	541	n/a	U
S10V000691		O	59-89-2	N-Nitrosomorpholine	UJ	ug/kg	n/a	<191	<185	n/a	n/a	n/a	n/a	185	n/a	U
S10V000691		O	78-83-1	Isobutanol	UJ	ug/kg	n/a	n/a	<446	n/a	n/a	n/a	n/a	446	n/a	U
~~S10V000692~~		~~W~~	~~16984-48-8~~	~~Fluoride~~		~~ug/g~~	~~106~~	~~<1.61E-03~~	~~2.38~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.0163~~	~~n/a~~	
S10V000692		W	666-14-8	Glycolate		ug/g	102	<9.37E-03	0.663	n/a	n/a	n/a	n/a	0.0951	n/a	J
~~S10V000692~~		~~W~~	~~71-50-1~~	~~Acetate~~		~~ug/g~~	~~102~~	~~<6.04E-03~~	~~4.28~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.0613~~	~~n/a~~	

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Appendix 4

Laboratory Narrative and Chain-of-Custody Documentation

222-S LABORATORY

FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7670 IN SUPPORT OF RCRA SOIL CHARACTERIZATION

1.0 INTRODUCTION

This final report presents the results for the samples taken from Waste Management Area C between April 15, 2010 and May 11, 2010. The samples were analyzed in accordance with RPP-PLAN-40564, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C* (FSAP); RPP-PLAN-38777, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C* (SAP); ATL-MP-1011, *ATL Quality Assurance Project Plan for 222-S Laboratory* (QAPP); SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*; and the additional guidance given by the client's point of contact.

Because the 222-S Laboratory facility was designed to analyze hazardous and complex tank waste samples, most SW-846 test methods performed at the 222-S Laboratory contain deviations that are listed in an appendix in the analytical procedures. All other known deviations or variances from SW-846 are documented in this narrative. The following attachments are included in this report.

Attachment 1	Data Summary Report
Attachment 2	Sample Breakdown Diagrams
Attachment 3	Holding Time Report
Attachment 4	Additional Organic Analyses QC Results
Attachment 5	Tentatively Identified Compounds (TIC) for Organic Analyses
Attachment 6	Geological Report
Attachment 7	Characterization Change Notices (CCN) and Correspondence
Attachment 8	Receipt Paperwork

2.0 SAMPLE RECEIPT AND BREAKDOWN

2.1 SAMPLE RECEIPT

A total of nine core intervals and two surface grab samples from core hole C7670 along with eight field blanks and eight trip blanks were received by the 222-S Laboratory between April 15, 2010 and May 11, 2010. The samples were delivered in a cooler with ice or, in the case of the volatile organic samples, in a freezer. The temperatures of the temperature blanks were measured and recorded on the sample receipt check list and/or the chain of custody form.

2.2 SAMPLE BREAKDOWN

The laboratory received each core interval as a set of volatile organic analysis (VOA) samples and three liner samples when complete core recovery was obtained. The VOA samples were made from the shoe section of each core interval following SW-846 5035. The liner samples from each core interval were extruded, described, and composited by the Washington River Protection Solutions, Inc. (WRPS) geologist. The geologist's report is included in Attachment 6. Provided sufficient samples existed, the composite for each core interval was analyzed as described in the SAP and FSAP. Five core intervals (I002, I003, I004, I008, and I009) had less than full recovery (see Attachment 2 and Attachment 8). Interval I004 was extruded and composited in the normal manner. Interval I002 was combined with I003 to form a single composite. Interval I003 was taken immediately below I002 (see Attachment 7, CCN-WMAC-005). Interval I008 was combined with I009 to form a single composite. Interval I009 was taken immediately below I008 (see Attachment 7, CCN-WMAC-006). The surface samples were received as a single grab in a 500-mL jar and a set of VOA samples.

WRPS shipped subsamples of the composites to Test America Laboratories, Inc. (TAL) in St Louis, Missouri and Knoxville, Tennessee to be analyzed for dibutyl and monobutyl phosphate, total petroleum hydrocarbons (diesel and gasoline range), ethylene glycol, chlorinated pesticides, and polychlorinated biphenyls (Aroclors and congeners). TAL subsequently subcontracted the monobutyl and dibutyl phosphate analyses to Southwest Research Institute. The results of these analyses will be released in the final WRPS report.

3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results for those analytes requested in the SAP and FSAP. Secondary analytes are only reported if detected. The TIC from gas chromatography-mass spectrometry (GC/MS) analysis of semivolatile organic compounds (SVOC) is presented in Attachment 5. In addition to the required isotopes, all isotopes with positive gamma energy analysis (GEA) results were reported.

The "Det Limit" column in Attachment 1 contains the method detection limit (MDL) for non-radionuclide analyses, or the minimum detectable activity for radionuclides.

In Attachment 1, the column labeled "A#" indicates the aliquot class or the method used for sample preparation before analysis. For solid samples, the aliquot classes are defined as follows:

"A" indicates samples that were prepared by SW-846 3050B.

"E" indicates samples that were prepared by a strong acid digest.

"O" indicates samples that were extracted for organic analysis.

"S" indicates samples that were prepared by a distillation.

"W" indicates samples that were prepared by a standard water digest.

"WV" indicates samples that were prepared by a "Vadose" water digest.

Samples without a letter identifier in the "A#" column were analyzed directly with no separate preparation or with sample preparation performed as a part of the procedure steps.

The "Qual Flags" column in Attachment 1 contains data qualifier flags that are defined as follows:

> "B" is used to indicate that the analyte was detected in the method or preparation blank and in the sample, and the result for the blank was greater than 5% of the reported sample result.
>
> "J" indicates that the reported result should be considered an estimate because it is below the quantitation limit. The "J" flag is applied to sample concentrations that are greater than the MDL but less than the quantitation limit or sample activity with a counting uncertainty greater than 30%.
>
> "N" indicates a TIC which has been named.
>
> "T" indicates a TIC.
>
> "U" indicates that the reported result is less than the calculated detection limit.
>
> "a" indicates that the laboratory control sample (LCS) was outside of the specified range in the QAPP or SAP.
>
> "b" indicates that the matrix spike (MS) was outside of the specified range in the QAPP or SAP.
>
> "c" indicates that the relative percent difference (RPD) between the sample and the duplicate is greater than 30%.

Manual calculations using rounded results from the Data Summary Report (Attachment 1) or result calculation forms may differ slightly from the actual results derived from the raw data.

3.1 SAMPLE DIGESTIONS

3.1.1 Radiochemistry Strong Acid Digestion

Strong acid digestions with a hot plate for the heat source were performed using a mixture of concentrated nitric and hydrochloric acids. For each digest, approximately 1 to 10 g of sample was digested depending on the analysis being performed. The digestate was then filtered and diluted to a final volume. This digestion was used for all radiochemical analyses except ^{3}H, ^{14}C, and ^{129}I. This digestion is a leach of the acid soluble species only.

3.1.2 SW-846 3050B - Acid Digestion-Heating Block

This acid digestion follows SW-846 3050B using a heating block and nitric and hydrochloric acids. An aliquot of 0.25 g or 5 g of sample was digested. All heating-block digestions were filtered and diluted to a final volume of 50 mL. In soil, this digestion is a leach of the acid soluble species only. This digestion was used for all inductively coupled plasma/mass spectrometry (ICP/MS) and inductively coupled plasma/atomic emission spectroscopy (ICP/AES) analyses except for ^{99}Tc and isotopic tin (^{117}Sn and ^{126}Sn) analyses. The digestion is

modified for the ^{99}Tc analysis by using only nitric acid. This is done to eliminate the possibility of the formation a zinc-chlorine ion pair of mass 99. The laboratory believes this ion, when present, is responsible for low level false positives. A separate digestion for antimony was prepared using additional hydrochloric acid, as recommended in SW-846.

3.1.3 Water Digestion

A water digestion or leach was prepared for the anions by ion chromatography, ^{14}C, and ^{3}H analyses using approximately 0.25 to 4 g of sample diluted to 25 mL. Sonification was used, and the leachate was then filtered. In soil, this digestion is a leach of the water soluble species only.

3.1.4 Vadose Water Digestion

A 70-g sample of soil was leached using a ratio of one part water to one part soil. To maintain a one-to-one ratio, the amount of water added to the sample was adjusted based on the percent moisture of the soil. The slurries were placed on a shaker table for about 1 hour. They were then transferred to a centrifuge tube and centrifuged at 4,000 rpm for 30 minutes. An unfiltered aliquot was set aside for alkalinity analysis. The remainder was filtered using a disposable vacuum filtration system. The filtrates were transferred to a clean bottle and then analyzed for anions using IC nitrate analysis (intervals I005 to I010) and ^{99}Tc by ICP/MS analysis.

3.2 INORGANIC ANALYSES

3.2.1 Cyanide

The cyanide analysis by distillation and spectrophotometry was performed on direct subsamples of the grab samples and liner composite samples. All analyses met the SW-846 holding time of 14 days. There was no required reporting limit in the SAP for cyanide. The target detection limit was 0.5 µg/g, which is at least an order of magnitude lower than the current laboratory method (lachet micro-distillation) can reach.

Batches 19042 and 19150: There were no notable quality control (QC) issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19456: The low level standard (LLS) was recovered outside the ±25% requirement at 65%. Since the results were well below the MDL, there was no affect on data quality. Eleven samples were analyzed between the initial calibration blank and the next calibration verification standard (CCV). This did not meet the requirement in the QAPP; however, since there was no affect on the results, the data was accepted. Reanalysis would have exceeded the holding time for some samples in the batch.

3.2.2 Sulfide

Sulfide analysis by distillation and ion selective electrode was performed on direct subsamples of the grab samples and liner composite samples. All analyses met the SW-846 holding time of 7 days. There was no required reporting limit in the SAP for sulfide. The target detection limit was 5 µg/g. All sample results had adjusted MDLs of approximately 7 µg/g. There were no

notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.3 pH Analysis

The pH analysis was performed on the grab samples and liner composite samples. These analyses met all QC requirements in the FSAP, SAP, and QAPP. The FSAP lists a pH holding time requirement of "as soon as possible." All pH measurements were taken immediately after the water leach was performed, but the sampling to analysis date varied from 2 to 14 days (see Attachment 3). There is no correlation between pH results and days to analysis, and the results fall within an expected range for alkaline soils. This indicates that the variation in time has no apparent effect on the results. The lapse time of up to 6 days for the analysis was due to the time taken between sampling and extrusion/compositing of the liners; most samples fall in to this range. Three samples were analyzed between day 11 and day 14. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.4 Mercury

Analysis for mercury by cold-vapor graphic furnace/atomic absorption was performed on digested subsamples of the grab samples and liner composite samples. All results met the QC requirements in the FSAP, SAP, and QAPP. All analyses met the holding time of 28 days. This analysis met the required and target detection limits.

3.2.5 Ion Chromatography – Ammonium

Analysis for ammonium was performed using a distillation preparation of the grab samples and liner composite samples. The SAP lists an administrative holding time of 7 days. The laboratory believes that after distillation and preservation, the holding time is 28 days, based on U.S. Environmental Protection Agency drinking water and waste water holding times for preserved samples. There is no regulatory holding time limit promulgated for ammonium in soil. All samples met the SAP holding times. These analyses met the target detection limit listed in the SAP. There was no required reporting limit in the SAP or FSAP for ammonium.

Batches 19076, 19246, and 19420: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19029: Ammonium was detected in the preparation blanks at a level below the quantitation limit and above the MDL. Ammonium was also detected in the samples at a similar level; these results have been flagged with a "B". Since all results were below the quantitation limit, reanalysis was not required.

3.2.6 Ion Chromatography – Anions and Small Organic Acids

Ion chromatography analysis was performed on a standard water digest of subsamples from all grab samples and soil composite samples. The laboratory met all of the required and target detection limits. All analyses were within the applicable holding time. The sample spikes used for the standard water digestions are predigestion spikes. Due to the large aliquot size (approximately 70 g) used in the Vadose water digestion, the spikes were post-digestion.

Batches 19058, 19147, and 19446: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 22897: The preparation blank contained nitrite below the quantitation limit, but at greater than 5% of the sample results. All sample results have been flagged with a "B". Since the sample and blank results were below the quantitation level, reanalysis was not required. The RPD for acetate exceeded the ±30% requirement in the SAP and FSAP; however, since the sample result was below the quantitation limit, this criterion does not apply.

3.2.7 Inductively Coupled Plasma/Atomic Emission Spectroscopy

The ICP/AES analysis was performed on an acid-digest (SW-846 3050B) of all grab samples and liner composite samples. The ICP/AES analysis was unable to obtain the required detection limit for antimony, arsenic, cadmium, selenium, silver, and thallium. These elements have been reported from separate ICP/MS analyses. Lead is also reported for some samples. Total uranium has not been reported by the ICP/AES analysis since it cannot meet the required detection limits in the SAP. The isotopic uranium analysis by ICP/MS met the required detection limit for ^{238}U, which is essentially total uranium and can be used in place of ICP/AES total uranium. This does not affect the overall data usability. For all other metals reported by ICP/AES, all target and required detection limits were met. All analysis were within the SW-846 six month holding time.

Batch 19876: The ICSAB had results above the quantitation limits for neodymium and palladium. This indicates that spectral interference was occurring. Neodymium and palladium results were not reported due to the high probability that they were the result of interferences. Results slightly above the MDL for lead, manganese, and tungsten in the ICSA indicate a possible high bias for these elements. However, the recoveries of these elements in the ISCAB were within the ±20% requirement; this would indicate no significant bias. Low levels of iron, zinc, and calcium were detected in the preparation blank, but reanalysis was not required since these levels were less than 5% of the lowest sample result. The MS recoveries for aluminum, calcium, iron, magnesium, and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the sample results for these elements exceeded the matrix spike level by more than four times, this criterion does not apply. The MS recoveries for sodium, silicon, and zirconium exceeded the ±25% requirement. All sample results in this batch for sodium, silicon, and zirconium have been flagged with "b". The exact cause for these failures is not known, but it should be noted that this digestion is not one that should be used to report silicon from siliceous material. It should be noted that silicon is not listed with other elements in SW-846 3050B, section 1.1, under "Scope and Application" for the method. Since none of these were primary analytes, reanalysis was not required. The mid-run continuing calibration blank (CCB) demonstrated a zirconium result slightly above the MDL and below the quantitation level. The blank result was more that 5% of the sample results, and a "B" flag was applied. Since the blank result was below the quantitation limit, reanalysis was not required.

Batch 20066: The MS recovery for potassium exceeded the ±25% requirement in the FSAP and SAP. Since the sample result exceeded the matrix spike level by more than four times, this criterion does not apply.

Batch 20874: The ICSAB had a result above the quantitation limits for neodymium. This indicates that spectral interference was occurring. Neodymium results were not reported due to the high probability that they were the result of this interference. Results slightly above the MDL for cadmium and manganese in the ICSA indicate a possible high bias for these elements. However, the recoveries of cadmium and manganese in the ISCAB were within the ±20% requirement; this indicates no significant bias was present. Low levels of iron and calcium were detected in the preparation blank, but reanalysis was not required since these levels were less than 5% of the lowest sample result. The MS recoveries for aluminum, calcium, iron, magnesium, manganese, potassium, and sodium silicon and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the sample results for these elements exceeded the matrix spike level by more than four times, this criterion does not apply. The RPD for nickel exceeded the ±30% requirement at 51%. All sample results in this batch for nickel have been flagged with "c". The laboratory believes this exceedance may have also been caused by sample inhomogeneity. Additionally, silicon experienced LCS failures and reanalysis was not required for this secondary element. It should be noted that silicon is not listed with other elements in SW-846 3050B, section 1.1, under "Scope and Application" for the method.

3.2.8 Inductively Coupled Plasma/Mass Spectroscopy

The ICP/MS actinide and trace metal analyses were performed on the standard SW-846 3050 acid digestion of all grab samples and liner composite samples. The ICP/MS ^{126}Sn and ^{99}Tc analysis was performed on the sample digest without the addition of the hydrochloric acid. Hydrochloric acid is not used for ^{99}Tc analysis because of the potential formation of a ZnCl ion pair with mass 99. ICP/MS trace metal analysis for antimony was perform on the same digest with additional hydrochloric acid, which is required to keep antimony in solution. In addition to these acid digestions, ICP/MS ^{99}Tc analysis was performed on a vadose water digest.

Direct is the most accurate type of calibration; however, standard material is not commercially available for all the isotopes of interest. Concentrations of those isotopes without available standards are estimated based on the instrument's mass-response curve, which is generated by using the intensity/concentration relationship for the available isotope standards. Results estimated in this manner are designated "semi-quantitative."

Table 1. Inductively Coupled Plasma-Mass Spectroscopy Standards and Spikes

Standard Type	Analytes Analyzed
Initial calibration verification (nondigested)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Acid digest standard (laboratory control standard)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Predigest spike (MS)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Post-digest spike	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
No standard or spike of either type	^{126}Sn, ^{230}Th, ^{233}U, ^{234}U, ^{236}U

3.2.8.1 Technetium-99 and Tin-126

The required detection limit listed in the SAP for ^{99}Tc was met. The target detection limit for ^{99}Tc was not met. There were no required or target detection limits for ^{126}Sn listed in the SAP. The SAP lists a holding time of 6 months for isotopic analytes. All samples were analyzed within the holding time.

Because there is no available source for ^{126}Sn, ^{117}Sn is used to monitor the chemical recovery for this analysis. Though not specifically requested in the SAP, ^{117}Sn is reported for the LCS and MS in order to demonstrate method accuracy and presence of possible matrix interference.

Batch 19814: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 20169: The matrix spike recovered ^{117}Sn outside the ±25% required in the QAPP and SAP at 59%. These samples were initially analyzed in batch 19814 with a similar results. This would indicate that there is a matrix interference for tin when spiked at these levels. All sample results in the batch have been flagged with a “b”.

Batch 20677: The matrix spike recovered ^{117}Sn outside the ±25% required in the QAPP and SAP at 59%. Since the post-digestion spike passed and the previous batch (20169) was reanalyze without improvement of the MS recovery, matrix interference was inferred and reanalysis was not performed. If tin is spiked at a level similar to the one used for the ICPAES analysis, the recoveries are generally within the required ±25%. However, this not appropriate for ^{126}Sn analysis. Results for this analysis should be considered biased low, but the laboratory believes that even sample levels of 10 µg/Kg should be easily detected. All sample results in the batch have been flagged with a “b”.

3.2.8.2 Technetium-99 (Vadose Water Digest)

The required and target detection limits listed in the SAP for ^{99}Tc were met. The SAP lists a holding time of 6 months for isotopic analytes. All holding times were met. A predigestion matrix is not prepared as part of this procedure. This is partially due to the large size of the aliquot—approximately 70 g. All other standard QC requirements were meet for this batch.

3.2.8.3 Actinides

The required and target detection limits were met for all isotopes and in all samples. The SAP lists the holding time for isotopic analytes as 6 months. All samples were analyzed within the holding time.

Batch 19661: The ending LLS for ^{232}Th exceeded the ±30% requirement at 134%. This could indicate a high bias for ^{232}Th results near the LLS level. However, the lowest sample result for ^{232}Th was approximately 100 times the LLS level and the data quality was not affected. The low level MS for ^{232}Th failed at 62%. It is the laboratory’s opinion that this failure is due to inhomogeneity (RPD of 18%) and the ^{232}Th result in the sample being nearly four times the spike amount. If the duplicate result is used to calculate the MS recovery, it is within the ±25% requirement. A higher level spike was also analyzed; it passed at 100%. This was discussed with

the client, and the laboratory was instructed to report the low level MS (see details discussed in Attachment 7).

Batch 20266: Th-230 was detected in the preparation blank at the MDL. However, this was more than 5% of one sample in the batch, which had a result slightly above the MDL. This sample was flagged with a "B". The ending LLS for ^{235}U exceeded the ±30% requirement at 53%. This could indicate a low bias for ^{235}U results near the LLS level. However, the lowest sample result for ^{235}U was approximately 25 times the LLS level and the data quality was not affected.

Batch 23864: Th-230 was detected in the preparation blank just above the MDL. However, this was more than 5% of the sample, which had a result above the MDL, but below the quantitation limit. This sample was flagged with a "B".

3.2.8.4 Trace Metals

Antimony, arsenic, cadmium, selenium, silver, and thallium were analyzed by ICP/MS to obtain the required detection limits in the SAP. Lead was also reported in four samples. Except for the required detection limit for selenium, all required and target detection limits were met or the sample results were above the quantitation limit, and the sample detection limit criteria do not apply. The required detection limit for selenium was approximately an order of magnitude below the detection limit obtained by using ICP/MS. The laboratory does not anticipate reaching this detection limit for future projects. The reporting limit for selenium ranged from 0.3 µg/g to 0.6 µg/g depending on the matrix interference encountered during the analysis. SW-846 lists the holding time of metals as 6 months. All samples were analyzed within the holding time except for sample B23KP9 (S10V003308), which was reanalyzed for arsenic one day into the 7th month. The laboratory does not believe the result was affected.

Batch 20363 and 23807: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19915: Two of the LLSs for selenium exceeded the ±30% requirement at 64% and 67%. This could indicate a low bias for selenium results near the LLS level. However, since the selenium signal was well below the MDL, the data quality was not affected.

Batch 20171: Thallium was detected in the preparation blank below the quantitation limit. The blank result was approximately 30% of the sample results, and a "B" flag was applied. Since the blank result was below the quantitation limit and the all sample results were below the required detection limit, reanalysis was not required.

Batch 20590: The first CCB had a result for antimony slightly above the MDL. All affected samples have been flagged with a "B". Since the blank result was below the quantitation limit, reanalysis was not required. The duplicate RPD for antimony was outside the ±30% requirement in the SAP and FSAP at 37%. The laboratory believes this was a result of sample inhomogeneity. Additionally, the sample result was well below the required detection limit. With customer agreement (see Attachment 7), all results were flagged with "c" and reported.

Batch 23628: The closing LLSs for selenium exceeded the ±30% requirement at 152%. This could indicate a high bias for selenium results near the LLS level. However, since the selenium signal was well below the MDL, the data quality was not affected.

3.3 RADIOCHEMICAL ANALYSIS

The holding time listed in the SAP for radioactive isotopes is 6 months. The FSAP list the holding time as "none." SW-846 does not address holding times for radiochemical analytes. All radiochemical analyses met the 6-month holding time listed in the SAP. With the exception of the ^{14}C and ^{3}H analyses, tracers and spikes are added prior to the digestion. The laboratory is investigating the possibility of performing predigestion spikes for the ^{3}H and ^{14}C analyses.

3.3.1 Gamma Energy Analysis

GEA was performed directly on approximately 60 mL of soil from all grab samples and liner composite samples. The SAP requires the reporting of all isotopes with positive results above the minimum detectable activity (MDA); therefore, isotopes in addition to those required in the SAP were report when detected. The GEA analysis met all of the required detection limits in the SAP. The laboratory was unable to meet any of the target detection limits.

Batch 19658: The RPD for ^{212}Pb and ^{40}K exceeded the ±30% requirement in the SAP and FSAP. Since relative error for ^{40}K exceeded 30%, the result is considered to be below the quantification limit and this criterion does not apply. The ^{212}Pb result was above the quantification level, and a "c" has been applied to the results. However, since ^{212}Pb is not a required analyte, reanalysis was not required.

3.3.2 Strontium-89/90

Strontium-89/90 analysis was performed on a strong acid digest of all grab samples and liner composite samples. All of the sample analyses met the required and target detection limits. The FSAP and SAP requested ^{90}Sr, not $^{89/90}Sr$, be reported. The 222-S Laboratory only performs the latter analysis. Since the half-life for ^{89}Sr is approximately 51 days and ^{89}Sr has not been produced at Hanford for years, $^{89/90}Sr$ is essentially ^{90}Sr. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.3 Tritium

The ^{3}H analysis by liquid scintillation counting (LSC) was performed on a water leach of all grab samples and liner composite samples. This method only measured the ^{3}H in the samples that could be dissolved in water. This analysis achieved the required and target detection limits in the FSAP. There were no notable issues with the ^{3}H batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.4 Selenium-79

The ^{79}Se analysis by LSC was performed on a strong acid digest of all grab samples and liner composite samples. The analysis achieved the target detection limit in the FSAP. No required

detection limit was listed. No standard is currently available for ^{79}Se. A cold carrier is used to monitor recovery and is measured gravimetrically. The ^{14}C LSC curve is used to determine the ^{79}Se results since their energies are similar.

Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%. There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.5 Carbon-14

The ^{14}C analysis by LSC was performed on a water leach of all grab samples and liner composite samples. The analysis achieved the required detection limit in the FSAP but exceeded the target detection limit. This analysis will only detect water soluble forms of ^{14}C. There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.6 Nickel-63

The ^{63}Ni analysis by LSC was performed on a strong acid digest of all grab samples and liner composite samples. The analysis achieved the required and target detection limits in the FSAP. There were no notable issues with these ^{63}Ni batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%.

3.3.7 Iodine-129

Analysis for ^{129}I by low energy GEA was performed on an iodine-specific fusion digest of all grab samples and liner composite samples. The required detection limit in the SAP was met. Four samples slightly exceeded the 2 pCi/g required detection limit with detection limits between 2.5 and 2.7 pCi/g. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.8 Americium-241, Curium-243/244, and Curium-242

Analysis for ^{241}Am, $^{243/244}$Cm, and ^{242}Cm by alpha energy analysis (AEA) was performed on a strong acid digest of all grab samples and liner composite samples. For this analysis, there were no notable issues and all QC requirements in the FSAP, SAP, and the QAPP were met. The required and target detection limits in the SAP were met. The SAP and FSAP requested ^{243}Cm and ^{244}Cm be reported separately. Since it is not possible to resolve these individual isotopes when using AEA, these isotopes have been report as $^{243/244}$Cm.

3.3.9 Plutonium-238 and Plutonium-239/240

Plutonium isotopic (^{238}Pu and $^{239/240}$Pu) analysis by AEA was performed on a strong acid digest of all grab samples and liner composite samples. For this analysis, there were no notable issues with any batches and all QC requirements in the FSAP, SAP, and the QAPP were met. The required and target detection limits in the SAP were met.

3.4 ORGANIC ANALYSES

3.4.1 Volatile Organic Analysis

The VOA by GC/MS was performed on all field samples by purge and trap. Field sampling methods, sample containers, and preservation methods followed SW-846 5035. The soil samples were delivered in a freezer, in pre-weighed VOA vials with magnetic stir bars and approximately 5 g of sample. After receipt, the VOA samples were stored in a freezer. For each sample interval, an additional high level sample preserved in methanol was also received. These were not used because none of the results for the frozen samples were above the calibration range. The exact weight of the sample and the tare weight of the VOA vials were recorded by sampling personnel and delivered with the samples. Eight field blanks and eight trip blanks were also received and analyzed. The samples were preserved with either HCl or H_2SO_4 to a pH < 2. All samples met the required holding times except for samples B23KN6 (S10V000368) and B23KN9 (S10V000369), which were placed in a refrigerator instead of a freezer. This reduces the holding time to 48 hours (see Attachment 3). Due to this taking place over a weekend, the sample storage error was not detected for approximately 90 hours. The samples were then properly stored and later analyzed.

The VOA analysis met the target and required detection limits in the SAP. The SAP and FSAP requested m-xylene and p-xylene be reported separately. Since it is not possible to resolve these individual compounds when performing VOA by SW-846 8260B, these compounds have been report as m+p xylene. The SAP and FSAP request that methanol be reported with this analysis; however, this compound is too polar to be purged and cannot be reported (see Attachment 7).

All field and trip blanks contained chloroform above the estimated quantification level. Since chloroform is a common chlorination byproduct, the laboratory believes the source of chloroform was the water used by sampling personnel to make the various blanks.

The laboratory method blanks generally contained a very low level of toluene, which was also present in the samples at a similar level. The blank contamination was usually just above the MDL and always below the quantitation limit. This contamination was 4 to 5 orders of magnitude below the required detection limit and 17 to 90 times less than the target detection limit. For these reasons, reanalysis was not necessary. “B” flags have been applied when appropriate. For analyses performed after these, toluene was only occasionally found in the blank. The laboratory is not sure of the source of the toluene, but it may be related to construction or maintenance activities.

All laboratory blanks for the liquid sample batches contained acetone at a level slightly below the quantitation level, based the low calibration. Some blanks were 30 to 50 times the MDL. Fortunately, the samples contained only a trace of acetone; most results were below the MDL and all were below the quantitation level. “B” flags have been applied when appropriate. For this reason, reanalysis was not required. The laboratory believes that this relatively high level of acetone in the method blanks was due to contamination in the hydrochloric acid used in the blanks. For analyses performed after these, acetone was only occasionally found in the blank and generally at a level below the quantitation level.

LCS, MS, and matrix spike duplicate (MSD) recoveries were compared against the laboratory's statistical process control (SPC) limits, as required by SW-846. The use of SPC limits is allowed in the FSAP, SAP, and QAPP.

Batch 18960: The method blank contained toluene as discussed above.

Batch 19080: The method blank contained acetone and toluene as discussed above.

Batch 19081: The method blank contained acetone and toluene as discussed above. The MS and MSD sample vials failed to purge, and no MS/MSD pair is contained in this batch. Since additional MS/MSD pairs exist for the field QC samples for this core hole, client requirements have been meet (see Attachment 7).

Batch 19123: The MS was recovered above the statistically determined limits for acetone, hexone, and 2-butanone. All sample result for hexone and 2-butanone were below the MDL, and the data usability was not affected. One sample had a result above the quantitation limit. This result should be considered biased high. Reanalysis was not performed due to the holding time. All results for these compounds have been flagged with a "b". The method blank contained toluene as discussed above.

Batch 19447: The LCS recovery for acetone was above the upper limit of 139% at 152%. Due to the holding time limitation, reanalysis was not performed. Since the result for acetone was below the quantitation limit and flagged with a "J", the data usability was not affected and reanalysis was unnecessary. The result has been flagged with an "a". The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 26%, which indicates a high bias for these compounds. Since the acetone result was below the quantitation level and the trans-1,2-dichloroethene was non-detect, the CCV was acceptable. The method blank contained acetone and toluene as discussed above.

Batch 19485: The LCS recovery for acetone was above the upper limit of 139% at 160%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were either below the MDL or below the quantitation limit and flagged with a "J", the data usability was not affected and reanalysis was unnecessary. The result has been flagged with an "a". The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 24% and 31%, respectively, which indicates a high bias for these compounds. Since the acetone results were below the MDL or below quantitation level and the trans-1,2-dichloroethene was non-detect, the CCV was acceptable. The method blank contained acetone and toluene as discussed above. The MS for 1-butanol failed low at 69%. Due to the holding time limitation, reanalysis was not performed. All sample results were below the MDL and have been flagged with a "b".

Batch 19486: The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 24% and 31%, respectively, which indicates a high bias for these compounds. Since the acetone and 1,2-Dichloroethene results were below the MDL, the CCV was acceptable. The LCS recovery for acetone was above the upper limit of 134% at 150%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were below the MDL, the data usability was not affected and reanalysis was unnecessary. All results for acetone in the batch have been flagged with "b".

Batch 19566: It is apparent from the following discussion that this batch should have been reanalyzed; however, due to a pending instrument outage and an expiring holding time, these are the only results available. With the exception of acetone, all QC failures indicate a high bias; the impact on the data is minimal. 2 Hexanone was detected in the sample and method blanks above the MDL and below the quantitation limit. The sample results have been flagged with a "B". Since the results were below the quantitation limit, reanalysis was not required. The MS failed high for acetone, 2-butanone, 2-hexanone, and hexone. The acetone and 2-hexanone results were above the MDL. All results have been flagged with a "b". Since the 2-hexanone result was below the quantitation limit and flagged with "J", this result was not affected. The acetone result was above the quantitation limit and should be considered biased high. A "J" flag has been applied to this result. The LCS for acetone failed high, again indicating a high bias, and the result has been flagged with an "a". Two CCVs were analyzed with this batch; the closing CCV was normal with only 2 compounds slightly above the ±20% requirement. However, the first CCV had six primary analytes above this requirement. As previously discussed, only acetone was affected by this high bias. The method blank contained toluene as discussed above.

Batch 19680: The LCS recovery for acetone was above the upper limit of 136% at 172%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were below the quantitation limit or below the MDL and flagged with a "J" or "U", the data usability was not affected and reanalysis was unnecessary. The results have been flagged with an "a". The % difference for 2 hexanone was high at 21%, which indicates a high bias for these compounds. Since 2-hexanone was below the quantitation limit and is not a primary analyte, the CCV was acceptable. The method blank contained acetone as discussed above.

Batch 20082: The method blank contained m,p-xylene at a level slightly above the MDL. Since the sample result for this compound was below the MDL, the blank was acceptable. The method blank contained toluene as discussed above. The RPD between the MS and MSD exceeded the ±30% requirement at 67%. Since the sample result was 72.5 ug/kg, the blank result was below the MDL, and all other QC for acetone was acceptable, inhomogeneity is suspected. Reanalysis was not performed due to holding time expiration.

Batch 20256: The method blank contained acetone and toluene as discussed above.

3.4.2 Semivolatile Organic Analysis

The semivolatile organic analysis (SVOA) by GC/MS was performed on methylene chloride extractions of all grab samples and liner composite samples. All holding times were met.

The SVOA analysis met the required and target detection limits with two exceptions:

- The adjusted MDLs for cyclohexanone were above the 0.5 mg/kg target detection limit for most samples. This compound obtained detection limits between 0.5 mg/kg an 0.6 mg/kg.
- The adjusted MDLs for di-n-butyl-phthalate were above the target detection limit of 0.33 mg/kg. The analysis achieved a detection limit of between 0.5 mg/kg and 0.6 mg/kg for this compound.

The LCS, MS, and MSD recoveries were compared against the laboratory's SPC limits, as required by SW-846. The use of SPC limits is permitted in the FSAP, SAP, and QAPP.

The SAP and FSAP requested m-cresol and p- cresol be reported separately. Since it is not possible to resolve these individual compounds when performing SVOA by SW-846 8270C, these compounds have been report as m+p cresol.

Isobutanol is listed as a required volatile organic compound in the FSAP. Since it does not purge well, it was analyzed as using SVOA.

Batch 19182: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batches 19296 and 19488: Butylbenzylphthalate was detected in the method blank slightly above the MDL and below the quantitation limit. This compound was detected in the samples at a similar level and has been flagged with a "B". Since all results were below the quantitation level, reanalysis was not required and the blank is acceptable.

Batch 19779: The MS recovery for 4-Chloro-3-methylphenol was above the 103% upper limit at 108%. Since this compound was not detected in the sample, reanalysis was not required.

3.4.3 Tentatively Identified Compounds

Unassigned peaks or TICs were treated as follows. Standards were obtained and analyzed for each secondary analyte identified in the SAP. This data was accumulated in the Hanford library. Following analysis, the largest TICs, with instrument responses greater than 10% of the response of the nearest internal standard, were evaluated and compared to the Hanford library. The estimated concentration of these TICs was calculated using measured response factors from the Hanford library compound list.

After comparison to the Hanford library, remaining unknowns were compared to the National Institute of Standards and Technology's *HP Mass Spectral (compound) Libraries* (NIST 02). The estimated concentration of compounds identified in the NIST library was calculated based on an arbitrary response factor of 1.0. If the compounds were not identified as a result of this comparison, they were reported as "unknown." Summaries of the SVOA and VOA TICs from the field samples and method blanks are provided in Attachment 4. TICs that were found in the field samples and were present in the associated batch method blank have been flagged with "B".

4.0 PROCEDURES

Table 2 lists the analytical procedures used for analysis of the Area C samples.

Table 2. Analytical Procedures

Analysis	Preparation Method	Analysis Procedure
Inorganic Analyses		
Cyanide	LA-695-103, Rev. I-0, J-0 (SW-846 9010C)	LA-695-103, Rev. J-0 (SW-846 9014)

Analysis	Preparation Method	Analysis Procedure
Sulfide	LA-361-101, Rev. D-0 (SW-846 9030B)	LA-361-101, Rev. D-0 (SW-846 9215)
pH (solid)	LA-212-105, Rev. G-0 (SW-846 9045D)	LA-212-105, Rev. G-0 (SW-846 9045D)
pH (liquid)	Direct	LA-212-106, Rev. H-0 (SW-846 9040D)
Mercury – Cold Vapor Atomic Absorption	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)
Ammonia – IC	LA-544-112, Rev. E-0	LA-533-101, Rev. Q-0
Anions & Organic Acids – IC	LA-504-101, Rev. L-0	LA-533-115, Rev. J-0
Metals – ICP /AES	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-505-161, Rev. J-0-A (SW-846 6010C)
^{99}Tc, ^{126}Sn – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. F-1
^{99}Tc – ICP/MS	08-ATL-078 Vadose Water Digest	LA-506-103, Rev. A-0
Metals – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. E-0, F-1 LA-506-103, Rev. A-0 (SW-846 6020A)
Actinides – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-1-2, Rev. F-1 LA-506-103, Rev. A-0
Radiochemical Analyses		
GEA	Direct	LA-548-121, Rev. I-0
^{90}Sr – Separation/Beta counting (Solid)	LA-544-101, Rev. F-0	LA-220-103, Rev. J-0
^{90}Sr – Separation/Beta counting (Liquid)	LA-220-104, Rev. I-0	LA-220-104, Rev. I-0
^{3}H – LSC	LA-504-101, Rev. L-0	LA-218-111, Rev. G-0
^{14}C – LSC	LA-504-101, Rev. L-0	LA-348-104, Rev. H-0
^{79}Se – Separation/LSC	LA-544-101, Rev. F-0	LA-365-132, Rev. I-0
^{63}Ni – Separation/LSC	LA-544-101, Rev. F-0	LA-285-102, Rev. E-0
^{129}I – Separation/GEA	LA-378-105, Rev. C-0	LA-378-105, Rev. C-0
^{241}Am, $^{243/244, 242}$Cm – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
$^{239/240, 238}$Pu – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
Organic Analyses		
VOC – GC/MS	Direct	LA-523-118, Rev. G-O-A (SW-846 8260B)
SVOC – GC/MS	LA-523-138, Rev. F-0 (SW-846 3540C)	LA-523-135, Rev. C-0, D-0 (SW-846 8270C)

5.0 REFERENCES

ATL-MP-1011, 2010, *ATL Quality Assurance Project Plan for 222-S Laboratory*, Rev. 9, Advanced Technologies and Laboratories International, Inc., Richland, Washington.

NIST 02, 2002, *HP Mass Spectral Libraries*, July 2002 Release, Hewlett-Packard Company, Palo Alto, California.

SW-846, 1986, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods,* Third Edition, as amended, U.S. Environmental Protection Agency, Washington, D.C.

RPP-PLAN-40564, 2009, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C,* Rev. 2, Washington River Protection Solutions, Inc.

RPP-PLAN-38777, 2009, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C*, Rev. 1, Washington River Protection Solutions, Inc.

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-032	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 1	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	surface	n/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MR0	WATER	4-15-10	1010
S10V000310			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	[illegible]	4/15/10 @1410

SPECIAL INSTRUCTIONS
cooler 1 L

222S20100160

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	V10-002-022	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Trip Blank 1	WMA C Sampling for CMS - QC Sampling	V10-002

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFV2-09-003	TFV2-09-000001	Surface	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238F5	WATER	4-15-10	0925
S10V000320			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell		[signature]	4/15/10 @1410

SPECIAL INSTRUCTIONS
11c cooler
222S20100160

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	V10-003-055	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KN6	SOIL	4-15-10	1010	✓	✓	
S10V000368	Lo					
S10V000369	Hi					
DPR 379						
4-20-10						

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	B Tullock	4/15/10 @ 1410

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.

Freezer - 11c
Cooler 11c

22225201 0213

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	V10-003-054	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23K87	SOIL	4-15-10	1010	✓
S10V000390				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BCampbell	4-15-10 1410	D Tuttle	4/15/10 @ 1410
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

Cooler ICE
Freezer -ICE

222S20100213

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	V10-003-053	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23R25	SOIL	4-15-10	1010	✓
S10V000401				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	TM Gollock	4/15/10 @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

(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;

cooler 11c

22252010021 3

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	V10-003-058	PAGE 1 OF 1

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.**		
C7670 Surface Dup	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-000001	TFV2-09-00000	Surface Dup	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KN9	SOIL	4-15-10	1010	✓	✓
S10V000369	Lo				
S10V000380	Hi				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	D McCollock	4/15/10 @ 1410

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.

Freezer -11c
Cooler 11c

222S20100213

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	V10-003-057	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
C7670 Surface Dup	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** B-4-15-10 ~~B~~C N/9	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	Surface Dup		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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN8	SOIL	4-15-10	1010	✓
S10V000391				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	TM Estbek	4/15/10 @ 1410

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.

Coolers 11 C
Freezer 11 C

222S20100213

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	V10-003-056	PAGE 1 OF 1

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.**		
C7670 Surface Dup	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	Surface Dup	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	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN7	SOIL	4-15-10	1010	✓
S10V000402				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	D Tuckett	4/15/10 @1410

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;

cooler 11 c

222S20100213

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	V10-002-033	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 2	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	5-7	n/a	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR1	WATER	4-20-10	1214	✓
510V000311				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	T McCollock	4/20/10 @1350
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

2225 2010060

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-023	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 2	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	5-7	n/a	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238F6	WATER	4-20-10	1214	✓
510V000321				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	D Tuttle	4/20/10 @ 1350

SPECIAL INSTRUCTIONS

22262010016 0

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-060	PAGE 1 OF 1

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.**		
C7670 I001	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	5-7	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN5	SOIL	4-20-10	1245	✓
510V000392				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	M Collock	4/20/10 @ 1350

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.

22252010021 3

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-061	PAGE 1 OF 1

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.**		
C7670 I001	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	5-7	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KN4	SOIL	4-20-10	1245	✓	✓	
S10V000370	Lo					
S10V000381	Hi					

CHAIN OF POSSESSION / **SIGN/PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	B Tuteback	4/20/10 @ 1350

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.

222S20100213

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-059	PAGE 1 OF 1

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.**		
C7670 I001	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-00000	5-7	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)	2 BC 4-20-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238J9	SOIL	4-20-10	1245	✓
S10V000412				
S10V000413				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BCampbell	4-20-10 1350	Treftock	4/20/10 @ 1350
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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;

222S20100213

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-034	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 3	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
~~TFVZ~~ - 09-003	TFVZ-09-000001	10 - 12	N/A	GOVERNMENT VEHICLE	
SHIPPED TO BRC 4/22/10	**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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR2	WATER	4/22/10	0830	✓
S10V000312				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RKSteele RKSteele 4-22-10	1200

SPECIAL INSTRUCTIONS

-0°C +B
RKS

222S20100160

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	V10-002-024	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 3	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	10-12	n/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP2	WATER	4-22-10	0820	✓
S10V000322				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RKSteele RKSteele	4-22-10 1200

SPECIAL INSTRUCTIONS
-0°C TB
RK

222S20100160

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	V10-003-064	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	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	10-12	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KP2	SOIL	4/22/10	0915	✓	✓	
S10V000371	Low Level VOA					
S10V000382	High Level VOA					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RtRobb RtRobb	4-22-10 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

** 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.

-12°C RA TB

222S 20100213

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	V10-003-063	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-09-000001	10-12	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	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~4C											
TYPE OF CONTAINER	Gs											
NO. OF CONTAINER(S)	1											
VOLUME	40mL											
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B23KP1	SOIL	4/22/10	0915	✓									
S10V000393	MeOH Blank												

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Horte	4-22-10 1200	RHTL RHTL 6/6	4-22-10 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

** 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.

-0 C TB
RHL

222S20100213

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	V10-003-062	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	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	10-12	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)	~~2~~ 4-22-10 1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP0	SOIL	4/22/10	0915	✓
S10V000415				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	R Rist RRistelle	4-22-10 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

** 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;

-0°C TO RK

222S 20100213

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			V10-003-065	PAGE 1 OF 1
COLLECTOR: HARRIS	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	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.: 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	Cool~6C
TYPE OF CONTAINER	Liner/Jars 500 ml
NO. OF CONTAINER(S)	3 BC 4-22-10 2
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP3	SOIL	4/22/10	945	✓
S10V000416	Liner A			
S10V000417	Shoe			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris 4-22-10	1200	RA Steele RA Steele 4-22-10	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

** 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;

α TB
RA Steele

222S 20100213

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		V10-003-070	PAGE 1 OF 1
COLLECTOR: HARRIS	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P
SAMPLING LOCATION: C7670 I004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-04-00000	ACTUAL SAMPLE DEPTH: 14-16	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A	

DATA TURNAROUND: 75 Days / 75 Days

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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KP8	SOIL	4/22/10	1055	✓	✓
S10V000373	Low Level VOA				
S10V000384	High Level VOA				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	4-22-10 1200	[illegible]	4-22-10 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

** 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.

0°C TB RK
-12°C TB RK

222S20100213

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			V10-003-069	PAGE 1 OF 1
COLLECTOR Harvis	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7670 I004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFV2-09-003	FIELD LOGBOOK NO. TFV2-09-000001	ACTUAL SAMPLE DEPTH 14-16	COA N/A	METHOD OF SHIPMENT Govt. 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	Cool~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP7	SOIL	4-22-10	1055	✓
S10V000395	MeOH Blank			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	4-22-10 1200	RHSteele	4-22-10 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

** 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.

0°CTB
RA

222S20100213

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	V10-003-068	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I004	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	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~~ 2 BC 4-22-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP6	SOIL	4-22-10	1055	J
S10V000821	Liner A			
S10V000822	Liner B			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	4-22-10 1200	RHSteele	4-22-10 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

** 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;

DOCTB
RKB

222S 20100213

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	V10-002-035	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Field Blank 4	WMA C Sampling for CMS - QC Sampling	V10-002

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVZ-09-003	TFVZ-09-000001	39' - 41'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR3	WATER	4-23-10	0855	✓
SDV000313				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RHSteele RHSteele	4-23-10 1150

SPECIAL INSTRUCTIONS

0°C TB RA

222S 20100160

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	V10-002-025	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 4	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	39' - 41'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP3	WATER	4-23-10	0855	✓
S10V000323				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RJ Steele RJ Steele	4-23-10 1150

SPECIAL INSTRUCTIONS

-0°C TS
RS

222S 20100160

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			V10-003-073	PAGE 1 OF 1
COLLECTOR: Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-~~000002~~ 000001	ACTUAL SAMPLE DEPTH: 39-41	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: RES 4/23/10 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	Cool <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3 ✓	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KR1	SOIL	4/23/10	0943	✓	✓	
S10V000374	Low level					
S10V000385	High level					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RHSteele RHSteele	4-23-10 1150
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

0°C TB RB / -7°C RB RB

222S20100213

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	V10-003-072	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.**		
C7670 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	39-41	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF):

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR0	SOIL BC 4-23-10 Liquid	4-23-10	0943	✓
S10V000396	MeOH			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BC_pbell	4-23-10 1150	RLSteele RLSteele	4-23-10 1150
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

OCTB
RK

222S 20100213

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			V10-003-071	PAGE 1 OF 1
COLLECTOR: Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 39-41	COA: n/a	METHOD OF SHIPMENT: Govt. 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	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	
B23KP9	SOIL	4-23-10	0943	✓
S10V000 824	Liner A			
825	Liner B			
826	Liner C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: B Campbell B Campbell	DATE/TIME: 4-23-10 1150	RECEIVED BY/STORED IN: RKSteele RKSteele	DATE/TIME: 4-23-10 1150
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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;

OC + B
-0 RK

222S 20100213

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	V10-002-036	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 5	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	139-141	n/a	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR4	WATER	5-4-10	0925	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-pbell	5-4-10 1215	RLSteele RLSteele	5-4-10 1215

SPECIAL INSTRUCTIONS

0°C TB

GRP# 222S20100160

Sample# S10V000314

omni pts ✓

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	V10-002-026	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 5	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	139-141	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MP4	WATER	5-4 ~~4-5~~ 10	0925
		B: 5-4-10	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell / B Campbell	5-4-10 1215	[illegible]	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

0 C 1 B

222S20100160
S10V000324

omni
LAV

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	V10-003-076	PAGE 1 OF 1

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.**		
C7670 I006	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	139-141	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KR4	SOIL	5-4-10	1002	✓	✓	
S10V000375	Lo					
386	Hi					

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RL Berlin PC-Shell	5-4-10 1215	RL Steele	5-4-10 1215

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.

-0°C TB / -7°C TB
222S20100213
S10V000375
S10V000386

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	V10-003-075	PAGE 1 OF 1

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.**		
C7670 I006	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	139-141	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR3	SOIL	5-4-10	1002	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-4-10 1215	RHHart RHHart	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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, 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.

-0 °C TB

222S20100213
S10V000397

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	V10-003-074	PAGE 1 OF 1

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.**		
C7670 I006	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	139'- 141'	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	
B23KR2	SOIL	5-4-10	1002	✓
S10V000 827	A			
828	B			
829	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-4-10 1215	RAHeels RASteele	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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;

0°C TB 222S20100213
S10V000 827 → 829 omit

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-037	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 6	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	163-165	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B23MR5	WATER	5-5-10	08:56	✓									

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-5-10 1130	RA Steele RA Steele	5-5-10 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

-1°C TB
RAS

~~2225201021 3~~
~~510V000 830 831, 832~~
RAS 5.5.10
2225201001 60
510V000315

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	V10-002-027	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris / Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 6	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	163' - 165'	n/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP5	WATER	5-5-10	08:56	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-5-10 1130	RHSteele RHSteele	5-5-10 1130

SPECIAL INSTRUCTIONS
1 °C TB
RHSteele

22252010016O
S10V000325

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	V10-003-079	PAGE 1 OF 1

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.**		
C7670 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	163 – 165	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KR7	SOIL	5-5-10	1030	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BCampbell	5.5.10 1130	RtSteele RtSteele	5.5.10 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

** 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°C TB
pH
-8°C TB
pH

222S20100213
S10V000376 - LO
S10V000387 - Hi

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-078	PAGE 1 OF 1
COLLECTOR: Campbell / Harris	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 163-165	COA: N/A	METHOD OF SHIPMENT: Govt. 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	Cool~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR6	SOIL	5-5-10	1030	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: B Campbell BC-pbell	DATE/TIME: 5-5-10 1130	RECEIVED BY/STORED IN: RKSteele RKSteele	DATE/TIME: 5-5-10 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

** 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°C TB
2225 20100214 213 RKSteele 5-5-10
510V000398

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-077	PAGE 1 OF 1

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.**		
C7670 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	163-165	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	
B23KR5	SOIL	5-5-10	1030	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BCampbell	5.5.10 1130	RtSteele RtSteele	5.5.10 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;

-1°C TB
RK

222SC0100213
510V000 830, 831, 832
A B C

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-038	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7670 Field Blank 7	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	220' - 222'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR6	WATER	5-7-10	11:30	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	R.L. Steele R.L. Steele	5-7-10 1300

SPECIAL INSTRUCTIONS
1°C TB
RK
GRP# 2225201.0160
SAM# S10V000316

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			V10-002-028	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C7670 Trip Blank 7	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V10-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-09-000001	ACTUAL SAMPLE DEPTH: 220'-222'	COA: N/A	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	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MP6	WATER	5-7-10	11:30
S10V000326			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	RKSteele RKSteele	5-7-10 1300

SPECIAL INSTRUCTIONS
1 °C TB
RK

20100160

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			V10-003-081	PAGE 1 OF 1
COLLECTOR: Harris / Snock	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I008	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-09-000001	ACTUAL SAMPLE DEPTH: 5/13/10 5' ~~200'~~ 220' - 222'	COA: N/A	METHOD OF SHIPMENT: Govt. 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	Cool~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR9	SOIL	5-7-10	1215	✓
S10V000399	Methanol Blk			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	R.T. Steole R.T. Steole	5.7.10 1300

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 oc TB RK 20100213

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	V10-003-080	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 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-09-000001	220' - 222'	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)	~~1~~ 2 SAS 5-7-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR8	SOIL	5-7-10	1215	✓
S10V000834	B			
835	C			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris, Dan Harris	5-7-10 1500	Rhetta Steele	5-7-10 1300

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;

1 °C TB RK 20100213

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	V10-002-039	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
B. Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Field Blank 8	WMA C Sampling for CMS - QC Sampling	V10-002 N/A

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVZ-09-003	TFVZ-09-000001	222-224	N/A	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR7	WATER	5-11-10	1255	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BC-Campbell	5-11-10 1420	Rstedt Rstedt	5/11/10 1420

SPECIAL INSTRUCTIONS

OC

GRP# 20100160
SAM# S10V000317

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	V10-002-029	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 8	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	222-224	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP7	WATER	5-11-10	1255	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	5-11-10 1420	Richard R Steedg	5-11-10 1420

SPECIAL INSTRUCTIONS
λ °C TB
pK
GRP # 20100160
SAM # S10V000327

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	V10-003-085	PAGE 1 OF 1

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.**		
C7670 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-09-00000	222-224	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

No sample RHSteele 5-11-10

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B23KT3	SOIL	5-11-10	1335	✓									

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	5-11-10 1420	RHSteele RHSteele	5-11-10 1420
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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°C TD
-8°C RK

GRP# ~~20100213~~ RK
20100213
Sam# S10V000378

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	V10-003-083	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
C7670 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	222-224	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)	1 SAS 2 5-11-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KT1	SOIL	5-11-10	1335	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Cpbell C-pbell	5-11-10 1420	RL Steele RLSteele	5-11-10 1420

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;

1°C TB

GRP# 20100213
SAM# S10V000836
" 837

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Appendix 5

Data Validation Supporting Documentation

Appendix A - Chemical Data Validation Checklist

VALIDATION LEVEL:	A	B	C	D	E
PROJECT: WMA C (C7670)			DATA PACKAGE: VSR11-035		
VALIDATOR: Carl Schloesslin		LAB: 222-S Lab		DATE: 5-12-2011	
			SDG: 20100213		
ANALYSES PERFORMED					
SW-846 8260		SW-846 8260 (TCLP)	SW-846 8270 X		SW-846 8270 (TCLP)

SAMPLES/MATRIX Soil samples

B23R25, B23KN7, B238J9, B25CN2*, B23KP6, B23KP9, B23KR2, B23KR5**, B25ND7***

*Sample B25CN2 is a composite of samples B23KP0 & B23KP3

**Samples B23KR5 & B23KR7 are from depth 163-165 feet. The LABCORE Report correctly lists B23KR5 for SVOA analysis, while the Data Summary Report provides the SVOA data with sample B23KR7 VOA data.

***Sample B25ND7 is a composite of samples B23KR8 & B23KT1

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:

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 19296 MB Hit: butylbenzylphthalate 728 ug/kg
Batch 19488 MB Hit: butylbenzylphthalate 74 ug/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? (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:

Batches 19182, 19296, 19488 & 19779: 7 spiked LCS and MS/MSD analytes, 19 non-represented analytes

Batch 19182: 1,2,4-trichlorobenzene LCS %R = 67%
2-chlorophenol LCS %R = 69%
n-nitroso-di-n-dipropylamine LCS %R = 67%

Batch 19296: 1,2,4-trichlorobenzene MS %R = 66%, MSD %R = 67%
n-nitroso-di-n-dipropylamine MS %R = 66%, MSD %R = 68%

Batch 19488: 1,2,4-trichlorobenzene LCS %R = 64%, MS %R = 67%, MSD %R = 60%
acenaphthene LCS %R = 68%, MSD %R = 66%
4-chloro-3-methylphenol LCS %R = 68%
2-chlorophenol LCS %R = 66%, MS %R = 68%, MSD %R = 65%
n-nitroso-di-n-dipropylamine LCS %R = 62%, MS %R = 67%, MSD %R = 60%

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

Internal 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

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: None

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:

Comments (attach additional sheets as necessary): None

Appendix 6

Additional Documentation Requested By Client

Holding Time Report: GC/MS SVOA

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S10V000418	SOLID	SW846-8270D	SW846-3520C	04/15/10 10:10	04/15/10 14:10	04/21/10 17:05	04/27/10 13:08	N
S10V000576	SOLID	SW846-8270D	SW846-3520C	04/15/10 10:10	04/15/10 14:10	04/21/10 17:05	04/27/10 15:36	N
S10V000628	SOLID	SW846-8270D	SW846-3520C	04/20/10 12:45	04/20/10 13:50	04/21/10 17:05	04/27/10 16:28	N
S10V000637	SOLID	SW846-8270D	SW846-3520C	04/22/10 09:15	04/22/10 12:00	04/28/10 15:55	05/05/10 15:51	N
S10V000655	SOLID	SW846-8270D	SW846-3520C	04/22/10 10:55	04/23/10 12:00	04/28/10 15:55	05/05/10 16:39	N
S10V000664	SOLID	SW846-8270D	SW846-3520C	04/23/10 09:43	04/23/10 11:50	04/28/10 15:55	05/05/10 17:27	N
S10V000673	SOLID	SW846-8270D	SW846-3520C	05/04/10 10:02	05/04/10 12:15	05/10/10 15:33	05/18/10 16:35	N
S10V000682	SOLID	SW846-8270D	SW846-3520C	05/05/10 10:30	05/06/10 11:30	05/10/10 15:33	05/18/10 19:02	N
S10V000691	SOLID	SW846-8270D	SW846-3520C	05/07/10 12:15	05/07/10 13:00	05/20/10 15:43	06/24/10 14:41	N

LABCORE Completed Batch Report for Batch# 00019182

Analyst: Ojanen, Carol **Book#:**

Instrument: GCMSD5 (TUVOK) for SVOA

Method: SVOA 222S #2, LA-523-135 Rev/Mod C-0

Specification: C Farm WMC 2010-1

Prep Batch: 00018976

Batch Comment: C Parm WMC 2010-1, SVOA, sol, Group 20100877 & 20100213

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1004210032		0 0	O		1,2,4-Trichlorobenzene	SOLID		<7.7400E+01			77.4	ug/Kg			U
1	BLNK	S1004210032		0 0	O		1,2-Dichlorobenzene	SOLID		<1.0070E+02			100.7	ug/Kg			U
1	BLNK	S1004210032		0 0	O		2,4-Dinitrotoluene	SOLID		<3.8100E+01			38.1	ug/Kg			U
1	BLNK	S1004210032		0 0	O		2,4,5-Trichlorophenol	SOLID		<4.4000E+01			44	ug/Kg			U
1	BLNK	S1004210032		0 0	O		2,4,6-Trichlorophenol	SOLID		<4.9500E+01			49.5	ug/Kg			U
1	BLNK	S1004210032		0 0	O		2-Methylphenol	SOLID		<5.7500E+01			57.5	ug/Kg			U
1	BLNK	S1004210032		0 0	O		2-Nitrophenol	SOLID		<5.3700E+01			53.7	ug/Kg			U
1	BLNK	S1004210032		0 0	O		3 & 4 Methylphenol Total	SOLID		<5.1400E+01			51.4	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Acenaphthene	SOLID		<1.7600E+01			17.6	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Benzo(a)anthracene	SOLID		<3.7800E+01			37.8	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Benzo(b)fluoranthene	SOLID		<4.8900E+01			48.9	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Benzo(a)pyrene	SOLID		<4.1200E+01			41.2	ug/Kg			U
1	BLNK	S1004210032		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID		<5.9020E+02			590.2	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Benzo(k)fluoranthene	SOLID		<3.9100E+01			39.1	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Butylbenzylphthalate	SOLID		<5.0000E+01			50	ug/Kg			U
1	BLNK	S1004210032		0 0	O		4-Chloro-3-methylphenol	SOLID		<4.3200E+01			43.2	ug/Kg			U
1	BLNK	S1004210032		0 0	O		2-Chlorophenol	SOLID		<6.6500E+01			66.5	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Chrysene	SOLID		<8.1400E+01			81.4	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Dibenz(a,h)anthracene	SOLID		<5.1100E+01			51.1	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Di-n-butylphthalate	SOLID		<5.6230E+02			562.3	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Di-n-octylphthalate	SOLID		<4.7700E+01			47.7	ug/Kg			U
1	BLNK	S1004210032		0 0	O		N-Nitrosodipropylamine	SOLID		<5.8100E+01			58.1	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Fluoranthene	SOLID		<3.5400E+01			35.4	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Hexachlorobutadiene	SOLID		<6.9700E+01			69.7	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Hexachloroethane	SOLID		<1.1180E+02			111.8	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID		<5.1000E+01			51	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Naphthalene	SOLID		<6.2600E+01			62.6	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Nitrobenzene	SOLID		<6.4600E+01			64.6	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Pyrene	SOLID		<6.2900E+01			62.9	ug/Kg			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019182

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1004210032		0 0	O		Pyridine	SOLID		<6.5000E+01			65	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Tri-n-butylphosphate	SOLID		<1.0780E+02			107.8	ug/Kg			U
1	BLNK	S1004210032		0 0	O		2,6 bis-4Methylphenol	SOLID		<2.3560E+02			235.6	ug/Kg			U
1	BLNK	S1004210032		0 0	O		2-Ethoxyethanol	SOLID		<1.8240E+02			182.4	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Cyclohexanone	SOLID		<5.5810E+02			558.1	ug/Kg			U
1	BLNK	S1004210032		0 0	O		N-Nitrosomorpholine	SOLID		<1.9130E+02			191.3	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Isobutanol	SOLID		<4.6030E+02			460.3	ug/Kg			U
1	BLNK	S1004210032		0 0	O		Methylphenols, Total	SOLID		<1.0660E+02			106.6	ug/Kg			U
1	BLNK	S1004210032		0 0	O		1,2-Benzenedicarboxyli	SOLID		426.40542				ug/Kg			JNT
1	BLNK	S1004210032		0 0	O		Unknown-1	SOLID		513.36961				ug/Kg			JT
1	BLNK	S1004210032		0 0	O		Unknown-2	SOLID		434.97739				ug/Kg			JT
Sample Sequence 2																	
2	LCS	S1004210033		0 0	O		1,2,4-Trichlorobenzene	SOLID	2000	1.3325E+03			77.4	ug/Kg	66.625	% Recovery	
2	LCS	S1004210033		0 0	O		2,4-Dinitrotoluene	SOLID	2000	1.7455E+03			38.1	ug/Kg	87.275	% Recovery	
2	LCS	S1004210033		0 0	O		Acenaphthene	SOLID	2000	1.4434E+03			17.6	ug/Kg	72.17	% Recovery	
2	LCS	S1004210033		0 0	O		4-Chloro-3-methylphenol	SOLID	4000	2.9005E+03			43.2	ug/Kg	72.512	% Recovery	
2	LCS	S1004210033		0 0	O		2-Chlorophenol	SOLID	4000	2.7454E+03			66.5	ug/Kg	68.635	% Recovery	
2	LCS	S1004210033		0 0	O		N-Nitrosodipropylamine	SOLID	2000	1.3425E+03			58.1	ug/Kg	67.125	% Recovery	
2	LCS	S1004210033		0 0	O		Pyrene	SOLID	2000	1.8786E+03			62.9	ug/Kg	93.93	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000418		0 0	O		1,2,4-Trichlorobenzene	SOLID	N/A	<7.6543E+01			76.543	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		1,2-Dichlorobenzene	SOLID	N/A	<9.9585E+01			99.585	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		2,4-Dinitrotoluene	SOLID	N/A	<3.7678E+01			37.678	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		2,4,5-Trichlorophenol	SOLID	N/A	<4.3513E+01			43.513	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		2,4,6-Trichlorophenol	SOLID	N/A	<4.8952E+01			48.952	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		2-Methylphenol	SOLID	N/A	<5.6863E+01			56.863	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		2-Nitrophenol	SOLID	N/A	<5.3105E+01			53.105	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		3 & 4 Methylphenol Total	SOLID	N/A	<5.0831E+01			50.831	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Acenaphthene	SOLID	N/A	<1.7405E+01			17.405	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Benzo(a)anthracene	SOLID	N/A	<3.7381E+01			37.381	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Benzo(b)fluoranthene	SOLID	N/A	<4.8358E+01			48.358	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Benzo(a)pyrene	SOLID	N/A	<4.0744E+01			40.744	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID	N/A	<5.8366E+02			583.66	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Benzo(k)fluoranthene	SOLID	N/A	<3.8667E+01			38.667	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Butylbenzylphthalate	SOLID	N/A	<4.9446E+01			49.446	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		4-Chloro-3-methylphenol	SOLID	N/A	<4.2722E+01			42.722	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		2-Chlorophenol	SOLID	N/A	<6.5763E+01			65.763	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Chrysene	SOLID	N/A	<8.0498E+01			80.498	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Dibenz(a,h)anthracene	SOLID	N/A	<5.0534E+01			50.534	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019182

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000418		0 0	O		Di-n-butylphthalate	SOLID	N/A	<5.5607E+02			556.07	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Di-n-octylphthalate	SOLID	N/A	<4.7172E+01			47.172	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		N-Nitrosodipropylamine	SOLID	N/A	<5.7456E+01			57.456	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Fluoranthene	SOLID	N/A	<3.5008E+01			35.008	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Hexachlorobutadiene	SOLID	N/A	<6.8928E+01			68.928	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Hexachloroethane	SOLID	N/A	<1.1056E+02			110.56	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID	N/A	<5.0435E+01			50.435	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Naphthalene	SOLID	N/A	<6.1907E+01			61.907	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Nitrobenzene	SOLID	N/A	<6.3884E+01			63.884	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Pyrene	SOLID	N/A	<6.2203E+01			62.203	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Pyridine	SOLID	N/A	<6.4280E+01			64.28	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Tri-n-butylphosphate	SOLID	N/A	<1.0661E+02			106.61	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		2,6 bis-4Methylphenol	SOLID	N/A	<2.3299E+02			232.99	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		2-Ethoxyethanol	SOLID	N/A	<1.8038E+02			180.38	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Cyclohexanone	SOLID	N/A	<5.5192E+02			551.92	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		N-Nitrosomorpholine	SOLID	N/A	<1.8918E+02			189.18	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Isobutanol	SOLID	N/A	<4.5520E+02			455.2	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		2-Fluorobiphenyl	SOLID	1977.848	1.5210E+03				ug/Kg	76.902	% Recovery	
3	SAMPLE	S10V000418		0 0	O		2-Fluorophenol	SOLID	3955.696	2.8303E+03				ug/Kg	71.55	% Recovery	
3	SAMPLE	S10V000418		0 0	O		Nitrobenzene-d5	SOLID	1977.848	1.3749E+03				ug/Kg	69.515	% Recovery	
3	SAMPLE	S10V000418		0 0	O		2,4,6-Tribromophenol	SOLID	3955.696	3.3313E+03				ug/Kg	84.215	% Recovery	
3	SAMPLE	S10V000418		0 0	O		Terphenyl-d14	SOLID	1977.848	1.8820E+03				ug/Kg	95.154	% Recovery	
3	SAMPLE	S10V000418		0 0	O		Phenol-d6	SOLID	3955.696	3.0326E+03				ug/Kg	76.7	% Recovery	
3	SAMPLE	S10V000418		0 0	O		Methylphenols, Total	SOLID	N/A	<1.0542E+02			105.42	ug/Kg			U
3	SAMPLE	S10V000418		0 0	O		Bromacil	SOLID		296.82431				ug/Kg			JNT
3	SAMPLE	S10V000418		0 0	O		Ethanol, 2-(2-butoxyet	SOLID		225.44146				ug/Kg			JNT
3	SAMPLE	S10V000418		0 0	O		Unknown-1	SOLID		1056.04				ug/Kg			BJT
3	SAMPLE	S10V000418		0 0	O		Unknown-2	SOLID		724.20511				ug/Kg			BJT
Sample Sequence 4																	
4	MS	S1004210035	S10V000418	0 0	O		1,2,4-Trichlorobenzene	SOLID	1988.961	1.5455E+03			76.973	ug/Kg	77.704	% Recovery	
4	MS	S1004210035	S10V000418	0 0	O		2,4-Dinitrotoluene	SOLID	1988.961	1.9326E+03			37.89	ug/Kg	97.166	% Recovery	
4	MS	S1004210035	S10V000418	0 0	O		Acenaphthene	SOLID	1988.961	1.6761E+03			17.503	ug/Kg	84.27	% Recovery	
4	MS	S1004210035	S10V000418	0 0	O		4-Chloro-3-methylphenol	SOLID	3977.922	3.3620E+03			42.962	ug/Kg	84.516	% Recovery	
4	MS	S1004210035	S10V000418	0 0	O		2-Chlorophenol	SOLID	3977.922	3.2429E+03			66.133	ug/Kg	81.522	% Recovery	
4	MS	S1004210035	S10V000418	0 0	O		N-Nitrosodipropylamine	SOLID	1988.961	1.4998E+03			57.779	ug/Kg	75.406	% Recovery	
4	MS	S1004210035	S10V000418	0 0	O		Pyrene	SOLID	1988.961	1.9063E+03			62.553	ug/Kg	95.844	% Recovery	
4	MS	S1004210035	S10V000418	0 0	O		2-Fluorobiphenyl	SOLID	1988.961	1.5772E+03				ug/Kg	79.298	% Recovery	
4	MS	S1004210035	S10V000418	0 0	O		2-Fluorophenol	SOLID	3977.922	3.1204E+03				ug/Kg	78.443	% Recovery	
4	MS	S1004210035	S10V000418	0 0	O		Nitrobenzene-d5	SOLID	1988.961	1.5172E+03				ug/Kg	76.281	% Recovery	
4	MS	S1004210035	S10V000418	0 0	O		2,4,6-Tribromophenol	SOLID	3977.922	3.6133E+03				ug/Kg	90.834	% Recovery	
4	MS	S1004210035	S10V000418	0 0	O		Terphenyl-d14	SOLID	1988.961	1.8879E+03				ug/Kg	94.919	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019182

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
4	MS	S1004210035	S10V000418	0 0	O		Phenol-d6	SOLID	3977.922	3.2940E+03				ug/Kg	82.8	% Recovery	
Sample Sequence 5																	
5	MSD	S1004210036	S10V000418	0 0	O		1,2,4-Trichlorobenzene	SOLID	1973.846	1.4064E+03			76.388	ug/Kg	71.252	% Recovery	
															8.6630	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		2,4-Dinitrotoluene	SOLID	1973.846	1.9298E+03			37.602	ug/Kg	97.769	% Recovery	
															0.61867	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		Acenaphthene	SOLID	1973.846	1.6043E+03			17.37	ug/Kg	81.278	% Recovery	
															3.6147	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		4-Chloro-3-methylphenol	SOLID	3947.693	3.4191E+03			42.635	ug/Kg	86.61	% Recovery	
															2.4473	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		2-Chlorophenol	SOLID	3947.693	2.9231E+03			65.63	ug/Kg	74.046	% Recovery	
															9.6112	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		N-Nitrosodipropylamine	SOLID	1973.846	1.4116E+03			57.34	ug/Kg	71.515	% Recovery	
															5.2967	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		Pyrene	SOLID	1973.846	1.9032E+03			62.077	ug/Kg	96.421	% Recovery	
															0.60021	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		2-Fluorobiphenyl	SOLID	1973.846	1.4400E+03				ug/Kg	72.954	% Recovery	
															8.3336	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		2-Fluorophenol	SOLID	3947.693	2.6975E+03				ug/Kg	68.331	% Recovery	
															13.779	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		Nitrobenzene-d5	SOLID	1973.846	1.3130E+03				ug/Kg	66.52	% Recovery	
															13.671	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		2,4,6-Tribromophenol	SOLID	3947.693	3.6480E+03				ug/Kg	92.408	% Recovery	
															1.7179	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		Terphenyl-d14	SOLID	1973.846	1.8592E+03				ug/Kg	94.192	% Recovery	
															0.76886	% RPD	
5	MSD	S1004210036	S10V000418	0 0	O		Phenol-d6	SOLID	3947.693	2.9431E+03				ug/Kg	74.6	% Recovery	
															10.4	% RPD	
Sample Sequence 6																	
6	SAMPLE	S10V000576		0 0	O		1,2,4-Trichlorobenzene	SOLID	N/A	<6.9661E+01			69.661	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		1,2-Dichlorobenzene	SOLID	N/A	<9.0631E+01			90.631	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		2,4-Dinitrotoluene	SOLID	N/A	<3.4290E+01			34.29	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		2,4,5-Trichlorophenol	SOLID	N/A	<3.9600E+01			39.6	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		2,4,6-Trichlorophenol	SOLID	N/A	<4.4550E+01			44.55	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		2-Methylphenol	SOLID	N/A	<5.1751E+01			51.751	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		2-Nitrophenol	SOLID	N/A	<4.8330E+01			48.33	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		3 & 4 Methylphenol Total	SOLID	N/A	<4.6260E+01			46.26	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Acenaphthene	SOLID	N/A	<1.5840E+01			15.84	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Benzo(a)anthracene	SOLID	N/A	<3.4020E+01			34.02	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Benzo(b)fluoranthene	SOLID	N/A	<4.4010E+01			44.01	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Benzo(a)pyrene	SOLID	N/A	<3.7080E+01			37.08	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019182

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
6	SAMPLE	S10V000576		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID	N/A	<5.3119E+02			531.19	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Benzo(k)fluoranthene	SOLID	N/A	<3.5190E+01			35.19	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Butylbenzylphthalate	SOLID	N/A	<4.5000E+01			45	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		4-Chloro-3-methylphenol	SOLID	N/A	<3.8880E+01			38.88	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		2-Chlorophenol	SOLID	N/A	<5.9851E+01			59.851	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Chrysene	SOLID	N/A	<7.3261E+01			73.261	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Dibenz(a,h)anthracene	SOLID	N/A	<4.5990E+01			45.99	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Di-n-butylphthalate	SOLID	N/A	<5.0608E+02			506.08	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Di-n-octylphthalate	SOLID	N/A	<4.2930E+01			42.93	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		N-Nitrosodipropylamine	SOLID	N/A	<5.2291E+01			52.291	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Fluoranthene	SOLID	N/A	<3.1860E+01			31.86	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Hexachlorobutadiene	SOLID	N/A	<6.2731E+01			62.731	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Hexachloroethane	SOLID	N/A	<1.0062E+02			100.62	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID	N/A	<4.5900E+01			45.9	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Naphthalene	SOLID	N/A	<5.6341E+01			56.341	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Nitrobenzene	SOLID	N/A	<5.8141E+01			58.141	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Pyrene	SOLID	N/A	<5.6611E+01			56.611	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Pyridine	SOLID	N/A	<5.8501E+01			58.501	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Tri-n-butylphosphate	SOLID	N/A	<9.7021E+01			97.021	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		2,6 bis-4Methylphenol	SOLID	N/A	<2.1204E+02			212.04	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		2-Ethoxyethanol	SOLID	N/A	<1.6416E+02			164.16	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Cyclohexanone	SOLID	N/A	<5.0230E+02			502.3	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		N-Nitrosomorpholine	SOLID	N/A	<1.7217E+02			172.17	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		Isobutanol	SOLID	N/A	<4.1427E+02			414.27	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		2-Fluorobiphenyl	SOLID	1800.018	1.3913E+03				ug/Kg	77.294	% Recovery	
6	SAMPLE	S10V000576		0 0	O		2-Fluorophenol	SOLID	3600.036	2.7352E+03				ug/Kg	75.977	% Recovery	
6	SAMPLE	S10V000576		0 0	O		Nitrobenzene-d5	SOLID	1800.018	1.2824E+03				ug/Kg	71.244	% Recovery	
6	SAMPLE	S10V000576		0 0	O		2,4,6-Tribromophenol	SOLID	3600.036	3.1817E+03				ug/Kg	88.38	% Recovery	
6	SAMPLE	S10V000576		0 0	O		Terphenyl-d14	SOLID	1800.018	1.6642E+03				ug/Kg	92.455	% Recovery	
6	SAMPLE	S10V000576		0 0	O		Phenol-d6	SOLID	3600.036	2.9280E+03				ug/Kg	81.3	% Recovery	
6	SAMPLE	S10V000576		0 0	O		Methylphenols, Total	SOLID	N/A	<9.5941E+01			95.941	ug/Kg			U
6	SAMPLE	S10V000576		0 0	O		1,2-Benzenedicarboxyli	SOLID		251.4494				ug/Kg			BJNT
6	SAMPLE	S10V000576		0 0	O		Bromacil	SOLID		290.65719				ug/Kg			JNT
6	SAMPLE	S10V000576		0 0	O		Unknown-1	SOLID		851.87373				ug/Kg			BJT
6	SAMPLE	S10V000576		0 0	O		Unknown-2	SOLID		610.02789				ug/Kg			BJT
Sample Sequence 7																	
7	SAMPLE	S10V000628		0 0	O		1,2,4-Trichlorobenzene	SOLID	N/A	<7.6554E+01			76.554	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		1,2-Dichlorobenzene	SOLID	N/A	<9.9599E+01			99.599	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		2,4-Dinitrotoluene	SOLID	N/A	<3.7684E+01			37.684	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		2,4,5-Trichlorophenol	SOLID	N/A	<4.3519E+01			43.519	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		2,4,6-Trichlorophenol	SOLID	N/A	<4.8959E+01			48.959	ug/Kg			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019182

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	SAMPLE	S10V000628		0 0	O		2-Methylphenol	SOLID	N/A	<5.6872E+01			56.872	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		2-Nitrophenol	SOLID	N/A	<5.3113E+01			53.113	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		3 & 4 Methylphenol Total	SOLID	N/A	<5.0838E+01			50.838	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Acenaphthene	SOLID	N/A	<1.7408E+01			17.408	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Benzo(a)anthracene	SOLID	N/A	<3.7387E+01			37.387	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Benzo(b)fluoranthene	SOLID	N/A	<4.8366E+01			48.366	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Benzo(a)pyrene	SOLID	N/A	<4.0750E+01			40.75	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID	N/A	<5.8375E+02			583.75	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Benzo(k)fluoranthene	SOLID	N/A	<3.8673E+01			38.673	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Butylbenzylphthalate	SOLID	N/A	<4.9454E+01			49.454	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		4-Chloro-3-methylphenol	SOLID	N/A	<4.2728E+01			42.728	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		2-Chlorophenol	SOLID	N/A	<6.5773E+01			65.773	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Chrysene	SOLID	N/A	<8.0510E+01			80.51	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Dibenz(a,h)anthracene	SOLID	N/A	<5.0542E+01			50.542	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Di-n-butylphthalate	SOLID	N/A	<5.5615E+02			556.15	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Di-n-octylphthalate	SOLID	N/A	<4.7179E+01			47.179	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		N-Nitrosodipropylamine	SOLID	N/A	<5.7465E+01			57.465	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Fluoranthene	SOLID	N/A	<3.5013E+01			35.013	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Hexachlorobutadiene	SOLID	N/A	<6.8938E+01			68.938	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Hexachloroethane	SOLID	N/A	<1.1058E+02			110.58	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID	N/A	<5.0443E+01			50.443	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Naphthalene	SOLID	N/A	<6.1916E+01			61.916	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Nitrobenzene	SOLID	N/A	<6.3894E+01			63.894	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Pyrene	SOLID	N/A	<6.2213E+01			62.213	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Pyridine	SOLID	N/A	<6.4290E+01			64.29	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Tri-n-butylphosphate	SOLID	N/A	<1.0662E+02			106.62	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		2,6 bis-4Methylphenol	SOLID	N/A	<2.3302E+02			233.02	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		2-Ethoxyethanol	SOLID	N/A	<1.8041E+02			180.41	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Cyclohexanone	SOLID	N/A	<5.5200E+02			552	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		N-Nitrosomorpholine	SOLID	N/A	<1.8921E+02			189.21	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		Isobutanol	SOLID	N/A	<4.5527E+02			455.27	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		2-Fluorobiphenyl	SOLID	1978.141	1.4149E+03				ug/Kg	71.527	% Recovery	
7	SAMPLE	S10V000628		0 0	O		2-Fluorophenol	SOLID	3956.283	2.6830E+03				ug/Kg	67.816	% Recovery	
7	SAMPLE	S10V000628		0 0	O		Nitrobenzene-d5	SOLID	1978.141	1.2414E+03				ug/Kg	62.756	% Recovery	
7	SAMPLE	S10V000628		0 0	O		2,4,6-Tribromophenol	SOLID	3956.283	3.3622E+03				ug/Kg	84.984	% Recovery	
7	SAMPLE	S10V000628		0 0	O		Terphenyl-d14	SOLID	1978.141	1.7450E+03				ug/Kg	88.214	% Recovery	
7	SAMPLE	S10V000628		0 0	O		Phenol-d6	SOLID	3956.283	2.8185E+03				ug/Kg	71.2	% Recovery	
7	SAMPLE	S10V000628		0 0	O		Methylphenols, Total	SOLID	N/A	<1.0543E+02			105.43	ug/Kg			U
7	SAMPLE	S10V000628		0 0	O		1,2-Benzenedicarboxyli	SOLID		296.20868				ug/Kg			BJNT
7	SAMPLE	S10V000628		0 0	O		Unknown-1	SOLID		308.95802				ug/Kg			BJT

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019182

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	SAMPLE	S10V000628		0 0	O		Unknown-2	SOLID		269.67782				ug/Kg			BJT
Sample Sequence 8																	
8	SAMPLE	S09V001616		0 0	O		1,2,4-Trichlorobenzene	SOLID	N/A	<7.5968E+01			75.968	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		1,2-Dichlorobenzene	SOLID	N/A	<9.8837E+01			98.837	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		2,4-Dinitrotoluene	SOLID	N/A	<3.7395E+01			37.395	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		2,4,5-Trichlorophenol	SOLID	N/A	<4.3186E+01			43.186	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		2,4,6-Trichlorophenol	SOLID	N/A	<4.8584E+01			48.584	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		2-Methylphenol	SOLID	N/A	<5.6436E+01			56.436	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		2-Nitrophenol	SOLID	N/A	<5.2706E+01			52.706	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		3 & 4 Methylphenol Total	SOLID	N/A	<5.0449E+01			50.449	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Acenaphthene	SOLID	N/A	<1.7274E+01			17.274	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Benzo(a)anthracene	SOLID	N/A	<3.7101E+01			37.101	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Benzo(b)fluoranthene	SOLID	N/A	<4.7995E+01			47.995	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Benzo(a)pyrene	SOLID	N/A	<4.0438E+01			40.438	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID	N/A	<5.7928E+02			579.28	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Benzo(k)fluoranthene	SOLID	N/A	<3.8377E+01			38.377	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Butylbenzylphthalate	SOLID	N/A	<4.9075E+01			49.075	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		4-Chloro-3-methylphenol	SOLID	N/A	<4.2401E+01			42.401	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		2-Chlorophenol	SOLID	N/A	<6.5270E+01			65.27	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Chrysene	SOLID	N/A	<7.9894E+01			79.894	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Dibenz(a,h)anthracene	SOLID	N/A	<5.0155E+01			50.155	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Di-n-butylphthalate	SOLID	N/A	<5.5190E+02			551.9	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Di-n-octylphthalate	SOLID	N/A	<4.6817E+01			46.817	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		N-Nitrosodipropylamine	SOLID	N/A	<5.7025E+01			57.025	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Fluoranthene	SOLID	N/A	<3.4745E+01			34.745	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Hexachlorobutadiene	SOLID	N/A	<6.8410E+01			68.41	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Hexachloroethane	SOLID	N/A	<1.0973E+02			109.73	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID	N/A	<5.0056E+01			50.056	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Naphthalene	SOLID	N/A	<6.1442E+01			61.442	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Nitrobenzene	SOLID	N/A	<6.3405E+01			63.405	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Pyrene	SOLID	N/A	<6.1736E+01			61.736	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Pyridine	SOLID	N/A	<6.3797E+01			63.797	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Tri-n-butylphosphate	SOLID	N/A	<1.0581E+02			105.81	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		2,6 bis-4Methylphenol	SOLID	N/A	<2.3124E+02			231.24	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		2-Ethoxyethanol	SOLID	N/A	<1.7903E+02			179.03	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Cyclohexanone	SOLID	N/A	<5.4777E+02			547.77	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		N-Nitrosomorpholine	SOLID	N/A	<1.8776E+02			187.76	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		Isobutanol	SOLID	N/A	<4.5178E+02			451.78	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		2-Fluorobiphenyl	SOLID	1962.997	1.5537E+03				ug/Kg	79.149	% Recovery	
8	SAMPLE	S09V001616		0 0	O		2-Fluorophenol	SOLID	3925.994	3.0423E+03				ug/Kg	77.491	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019182

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
8	SAMPLE	S09V001616		0 0	O		Nitrobenzene-d5	SOLID	1962.997	1.4245E+03				ug/Kg	72.568	% Recovery	
8	SAMPLE	S09V001616		0 0	O		2,4,6-Tribromophenol	SOLID	3925.994	3.5752E+03				ug/Kg	91.065	% Recovery	
8	SAMPLE	S09V001616		0 0	O		Terphenyl-d14	SOLID	1962.997	1.8173E+03				ug/Kg	92.578	% Recovery	
8	SAMPLE	S09V001616		0 0	O		Phenol-d6	SOLID	3925.994	3.2378E+03				ug/Kg	82.5	% Recovery	
8	SAMPLE	S09V001616		0 0	O		Methylphenols, Total	SOLID	N/A	<1.0463E+02			104.63	ug/Kg			U
8	SAMPLE	S09V001616		0 0	O		1,2-Benzenedicarboxyli	SOLID		279.23135				ug/Kg			BJNT
8	SAMPLE	S09V001616		0 0	O		Unknown-1	SOLID		285.28866				ug/Kg			BJT
8	SAMPLE	S09V001616		0 0	O		Unknown-2	SOLID		278.986				ug/Kg			BJT
Sample Sequence 9																	
9	SAMPLE	S09V001628		0 0	O		1,2,4-Trichlorobenzene	SOLID	N/A	<7.6065E+01			76.065	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		1,2-Dichlorobenzene	SOLID	N/A	<9.8963E+01			98.963	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		2,4-Dinitrotoluene	SOLID	N/A	<3.7443E+01			37.443	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		2,4,5-Trichlorophenol	SOLID	N/A	<4.3241E+01			43.241	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		2,4,6-Trichlorophenol	SOLID	N/A	<4.8646E+01			48.646	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		2-Methylphenol	SOLID	N/A	<5.6508E+01			56.508	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		2-Nitrophenol	SOLID	N/A	<5.2774E+01			52.774	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		3 & 4 Methylphenol Total	SOLID	N/A	<5.0513E+01			50.513	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Acenaphthene	SOLID	N/A	<1.7296E+01			17.296	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Benzo(a)anthracene	SOLID	N/A	<3.7148E+01			37.148	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Benzo(b)fluoranthene	SOLID	N/A	<4.8057E+01			48.057	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Benzo(a)pyrene	SOLID	N/A	<4.0489E+01			40.489	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID	N/A	<5.8002E+02			580.02	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Benzo(k)fluoranthene	SOLID	N/A	<3.8426E+01			38.426	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Butylbenzylphthalate	SOLID	N/A	<4.9138E+01			49.138	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		4-Chloro-3-methylphenol	SOLID	N/A	<4.2455E+01			42.455	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		2-Chlorophenol	SOLID	N/A	<6.5353E+01			65.353	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Chrysene	SOLID	N/A	<7.9996E+01			79.996	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Dibenz(a,h)anthracene	SOLID	N/A	<5.0219E+01			50.219	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Di-n-butylphthalate	SOLID	N/A	<5.5260E+02			552.6	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Di-n-octylphthalate	SOLID	N/A	<4.6877E+01			46.877	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		N-Nitrosodipropylamine	SOLID	N/A	<5.7098E+01			57.098	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Fluoranthene	SOLID	N/A	<3.4789E+01			34.789	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Hexachlorobutadiene	SOLID	N/A	<6.8498E+01			68.498	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Hexachloroethane	SOLID	N/A	<1.0987E+02			109.87	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID	N/A	<5.0120E+01			50.12	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Naphthalene	SOLID	N/A	<6.1520E+01			61.52	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Nitrobenzene	SOLID	N/A	<6.3486E+01			63.486	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Pyrene	SOLID	N/A	<6.1815E+01			61.815	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Pyridine	SOLID	N/A	<6.3879E+01			63.879	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Tri-n-butylphosphate	SOLID	N/A	<1.0594E+02			105.94	ug/Kg			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019182

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
9	SAMPLE	S09V001628		0 0	O		2,6 bis-4Methylphenol	SOLID	N/A	<2.3154E+02			231.54	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		2-Ethoxyethanol	SOLID	N/A	<1.7925E+02			179.25	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Cyclohexanone	SOLID	N/A	<5.4847E+02			548.47	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		N-Nitrosomorpholine	SOLID	N/A	<1.8800E+02			188	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		Isobutanol	SOLID	N/A	<4.5236E+02			452.36	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		2-Fluorobiphenyl	SOLID	1965.505	1.5901E+03				ug/Kg	80.9	% Recovery	
9	SAMPLE	S09V001628		0 0	O		2-Fluorophenol	SOLID	3931.01	2.9478E+03				ug/Kg	74.988	% Recovery	
9	SAMPLE	S09V001628		0 0	O		Nitrobenzene-d5	SOLID	1965.505	1.3545E+03				ug/Kg	68.914	% Recovery	
9	SAMPLE	S09V001628		0 0	O		2,4,6-Tribromophenol	SOLID	3931.01	3.6517E+03				ug/Kg	92.895	% Recovery	
9	SAMPLE	S09V001628		0 0	O		Terphenyl-d14	SOLID	1965.505	1.8040E+03				ug/Kg	91.783	% Recovery	
9	SAMPLE	S09V001628		0 0	O		Phenol-d6	SOLID	3931.01	3.2026E+03				ug/Kg	81.5	% Recovery	
9	SAMPLE	S09V001628		0 0	O		Methylphenols, Total	SOLID	N/A	<1.0476E+02			104.76	ug/Kg			U
9	SAMPLE	S09V001628		0 0	O		1,2-Benzenedicarboxyli	SOLID		237.57392				ug/Kg			BJNT
9	SAMPLE	S09V001628		0 0	O		Unknown-1	SOLID		750.79894				ug/Kg			BJT
9	SAMPLE	S09V001628		0 0	O		Unknown-2	SOLID		692.07404				ug/Kg			BJT
9	SAMPLE	S09V001628		0 0	O		Unknown-3	SOLID		258.71373				ug/Kg			JT

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019182

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00019182

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004210032	BLNK				
2	S1004210033	LCS				
3	S10V000418	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
4	S1004210035	MS	S10V000418			
5	S1004210036	MSD	S10V000418			
6	S10V000576	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
7	S10V000628	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
8	S09V001616	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
9	S09V001628	SAMPLE		20090877	B236N8	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019296

Analyst: Ojanen, Carol **Book#:**

Instrument: GCMSD5 (TUVOK) for SVOA

Method: SVOA 222S #2, LA-523-135 Rev/Mod C-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019122

Batch Comment: C-Farm WMC 2010-1, SVOA, SOL, group 20100213, prep batch# 19122

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1004280102		0 0	O		1,2,4-Trichlorobenzene	SOLID		<7.7400E+02			774	ug/Kg			U
1	BLNK	S1004280102		0 0	O		1,2-Dichlorobenzene	SOLID		<1.0070E+03			1.01E+03	ug/Kg			U
1	BLNK	S1004280102		0 0	O		2,4-Dinitrotoluene	SOLID		<3.8100E+02			381	ug/Kg			U
1	BLNK	S1004280102		0 0	O		2,4,5-Trichlorophenol	SOLID		<4.4000E+02			440	ug/Kg			U
1	BLNK	S1004280102		0 0	O		2,4,6-Trichlorophenol	SOLID		<4.9500E+02			495	ug/Kg			U
1	BLNK	S1004280102		0 0	O		2-Methylphenol	SOLID		<5.7500E+02			575	ug/Kg			U
1	BLNK	S1004280102		0 0	O		2-Nitrophenol	SOLID		<5.3700E+02			537	ug/Kg			U
1	BLNK	S1004280102		0 0	O		3 & 4 Methylphenol Total	SOLID		<5.1400E+02			514	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Acenaphthene	SOLID		<1.7600E+02			176	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Benzo(a)anthracene	SOLID		<3.7800E+02			378	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Benzo(b)fluoranthene	SOLID		<4.8900E+02			489	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Benzo(a)pyrene	SOLID		<4.1200E+02			412	ug/Kg			U
1	BLNK	S1004280102		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID		<5.9020E+03			5.90E+03	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Benzo(k)fluoranthene	SOLID		<3.9100E+02			391	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Butylbenzylphthalate	SOLID		7.2827E+02			500	ug/Kg			J
1	BLNK	S1004280102		0 0	O		4-Chloro-3-methylphenol	SOLID		<4.3200E+02			432	ug/Kg			U
1	BLNK	S1004280102		0 0	O		2-Chlorophenol	SOLID		<6.6500E+02			665	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Chrysene	SOLID		<8.1400E+02			814	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Dibenz(a,h)anthracene	SOLID		<5.1100E+02			511	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Di-n-butylphthalate	SOLID		<5.6230E+03			5.62E+03	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Di-n-octylphthalate	SOLID		<4.7700E+02			477	ug/Kg			U
1	BLNK	S1004280102		0 0	O		N-Nitrosodipropylamine	SOLID		<5.8100E+02			581	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Fluoranthene	SOLID		<3.5400E+02			354	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Hexachlorobutadiene	SOLID		<6.9700E+02			697	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Hexachloroethane	SOLID		<1.1180E+03			1.12E+03	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID		<5.1000E+02			510	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Naphthalene	SOLID		<6.2600E+02			626	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Nitrobenzene	SOLID		<6.4600E+02			646	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Pyrene	SOLID		<6.2900E+02			629	ug/Kg			U

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019296

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1004280102		0 0	O		Pyridine	SOLID		<6.5000E+02			650	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Tri-n-butylphosphate	SOLID		<1.0780E+03			1.08E+03	ug/Kg			U
1	BLNK	S1004280102		0 0	O		2,6 bis-4Methylphenol	SOLID		<2.3560E+03			2.36E+03	ug/Kg			U
1	BLNK	S1004280102		0 0	O		2-Ethoxyethanol	SOLID		<1.8240E+03			1.82E+03	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Cyclohexanone	SOLID		<5.5810E+03			5.58E+03	ug/Kg			U
1	BLNK	S1004280102		0 0	O		N-Nitrosomorpholine	SOLID		<1.9130E+03			1.91E+03	ug/Kg			U
1	BLNK	S1004280102		0 0	O		Isobutanol	SOLID		<4.6030E+03			4.60E+03	ug/Kg			U
1	BLNK	S1004280102		0 0	O		2-Fluorobiphenyl	SOLID	20000	1.4839E+04			494.81	ug/Kg	74.195	% Recovery	
1	BLNK	S1004280102		0 0	O		2-Fluorophenol	SOLID	40000	2.8159E+04			739	ug/Kg	70.398	% Recovery	
1	BLNK	S1004280102		0 0	O		Nitrobenzene-d5	SOLID	20000	1.4860E+04			680.7	ug/Kg	74.3	% Recovery	
1	BLNK	S1004280102		0 0	O		2,4,6-Tribromophenol	SOLID	40000	3.0535E+04			589.07	ug/Kg	76.338	% Recovery	
1	BLNK	S1004280102		0 0	O		Terphenyl-d14	SOLID	20000	1.8641E+04			521.38	ug/Kg	93.205	% Recovery	
1	BLNK	S1004280102		0 0	O		Phenol-d6	SOLID	40000	2.9891E+04				ug/Kg	74.7	% Recovery	
1	BLNK	S1004280102		0 0	O		Unknown-1	SOLID		2892.5588				ug/Kg			JT
1	BLNK	S1004280102		0 0	O		Unknown-2	SOLID		2268.5391				ug/Kg			JT
Sample Sequence 2																	
2	LCS	S1004280103		0 0	O		1,2,4-Trichlorobenzene	SOLID	20000	1.4482E+04			774	ug/Kg	72.41	% Recovery	
2	LCS	S1004280103		0 0	O		2,4-Dinitrotoluene	SOLID	20000	1.7712E+04			381	ug/Kg	88.56	% Recovery	
2	LCS	S1004280103		0 0	O		Acenaphthene	SOLID	20000	1.5204E+04			176	ug/Kg	76.02	% Recovery	
2	LCS	S1004280103		0 0	O		4-Chloro-3-methylphenol	SOLID	40000	3.0255E+04			432	ug/Kg	75.638	% Recovery	
2	LCS	S1004280103		0 0	O		2-Chlorophenol	SOLID	40000	2.9605E+04			665	ug/Kg	74.012	% Recovery	
2	LCS	S1004280103		0 0	O		N-Nitrosodipropylamine	SOLID	20000	1.4596E+04			581	ug/Kg	72.98	% Recovery	
2	LCS	S1004280103		0 0	O		Pyrene	SOLID	20000	1.9938E+04			629	ug/Kg	99.69	% Recovery	
2	LCS	S1004280103		0 0	O		2-Fluorobiphenyl	SOLID	20000	1.5162E+04			494.81	ug/Kg	75.81	% Recovery	
2	LCS	S1004280103		0 0	O		2-Fluorophenol	SOLID	40000	2.8845E+04			739	ug/Kg	72.112	% Recovery	
2	LCS	S1004280103		0 0	O		Nitrobenzene-d5	SOLID	20000	1.5362E+04			680.7	ug/Kg	76.81	% Recovery	
2	LCS	S1004280103		0 0	O		2,4,6-Tribromophenol	SOLID	40000	3.2465E+04			589.07	ug/Kg	81.162	% Recovery	
2	LCS	S1004280103		0 0	O		Terphenyl-d14	SOLID	20000	1.9676E+04			521.38	ug/Kg	98.38	% Recovery	
2	LCS	S1004280103		0 0	O		Phenol-d6	SOLID	40000	3.0253E+04				ug/Kg	75.6	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000637		0 0	O		1,2,4-Trichlorobenzene	SOLID	N/A	<7.7276E+01			77.276	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		1,2-Dichlorobenzene	SOLID	N/A	<1.0054E+02			100.54	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		2,4-Dinitrotoluene	SOLID	N/A	<3.8039E+01			38.039	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		2,4,5-Trichlorophenol	SOLID	N/A	<4.3930E+01			43.93	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		2,4,6-Trichlorophenol	SOLID	N/A	<4.9421E+01			49.421	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		2-Methylphenol	SOLID	N/A	<5.7408E+01			57.408	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		2-Nitrophenol	SOLID	N/A	<5.3614E+01			53.614	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		3 & 4 Methylphenol Total	SOLID	N/A	<5.1318E+01			51.318	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Acenaphthene	SOLID	N/A	<1.7572E+01			17.572	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Benzo(a)anthracene	SOLID	N/A	<3.7740E+01			37.74	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Benzo(b)fluoranthene	SOLID	N/A	<4.8822E+01			48.822	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019296

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000637		0 0	O		Benzo(a)pyrene	SOLID	N/A	<4.1134E+01			41.134	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID	N/A	<5.8926E+02			589.26	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Benzo(k)fluoranthene	SOLID	N/A	<3.9038E+01			39.038	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Butylbenzylphthalate	SOLID	N/A	8.0373E+01			49.92	ug/Kg			BJ
3	SAMPLE	S10V000637		0 0	O		4-Chloro-3-methylphenol	SOLID	N/A	<4.3131E+01			43.131	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		2-Chlorophenol	SOLID	N/A	<6.6394E+01			66.394	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Chrysene	SOLID	N/A	<8.1270E+01			81.27	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Dibenz(a,h)anthracene	SOLID	N/A	<5.1018E+01			51.018	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Di-n-butylphthalate	SOLID	N/A	<5.6140E+02			561.4	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Di-n-octylphthalate	SOLID	N/A	<4.7624E+01			47.624	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		N-Nitrosodipropylamine	SOLID	N/A	<5.8007E+01			58.007	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Fluoranthene	SOLID	N/A	<3.5343E+01			35.343	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Hexachlorobutadiene	SOLID	N/A	<6.9589E+01			69.589	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Hexachloroethane	SOLID	N/A	<1.1162E+02			111.62	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID	N/A	<5.0919E+01			50.919	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Naphthalene	SOLID	N/A	<6.2500E+01			62.5	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Nitrobenzene	SOLID	N/A	<6.4497E+01			64.497	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Pyrene	SOLID	N/A	<6.2800E+01			62.8	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Pyridine	SOLID	N/A	<6.4896E+01			64.896	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Tri-n-butylphosphate	SOLID	N/A	<1.0763E+02			107.63	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		2,6 bis-4Methylphenol	SOLID	N/A	<2.3522E+02			235.22	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		2-Ethoxyethanol	SOLID	N/A	<1.8211E+02			182.11	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Cyclohexanone	SOLID	N/A	<5.5721E+02			557.21	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		N-Nitrosomorpholine	SOLID	N/A	<1.9099E+02			190.99	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		Isobutanol	SOLID	N/A	<4.5956E+02			459.56	ug/Kg			U
3	SAMPLE	S10V000637		0 0	O		2-Fluorobiphenyl	SOLID	1996.805	1.5234E+03			494.81	ug/Kg	76.292	% Recovery	
3	SAMPLE	S10V000637		0 0	O		2-Fluorophenol	SOLID	3993.61	2.7211E+03			739	ug/Kg	68.136	% Recovery	
3	SAMPLE	S10V000637		0 0	O		Nitrobenzene-d5	SOLID	1996.805	1.4218E+03			680.7	ug/Kg	71.204	% Recovery	
3	SAMPLE	S10V000637		0 0	O		2,4,6-Tribromophenol	SOLID	3993.61	3.4339E+03			589.07	ug/Kg	85.985	% Recovery	
3	SAMPLE	S10V000637		0 0	O		Terphenyl-d14	SOLID	1996.805	1.8346E+03			521.38	ug/Kg	91.877	% Recovery	
3	SAMPLE	S10V000637		0 0	O		Phenol-d6	SOLID	3993.61	2.9546E+03				ug/Kg	74	% Recovery	
3	SAMPLE	S10V000637		0 0	O		1,2-Benzenedicarboxyli	SOLID		399.94507				ug/Kg			JNT
3	SAMPLE	S10V000637		0 0	O		1-Nonadecene	SOLID		264.23339				ug/Kg			JNT
3	SAMPLE	S10V000637		0 0	O		Unknown-1	SOLID		1146.2784				ug/Kg			BJT
3	SAMPLE	S10V000637		0 0	O		Unknown-2	SOLID		724.42368				ug/Kg			BJT
Sample Sequence 4																	
4	SAMPLE	S10V000655		0 0	O		1,2,4-Trichlorobenzene	SOLID	N/A	<7.6155E+01			76.155	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		1,2-Dichlorobenzene	SOLID	N/A	<9.9080E+01			99.08	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		2,4-Dinitrotoluene	SOLID	N/A	<3.7487E+01			37.487	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		2,4,5-Trichlorophenol	SOLID	N/A	<4.3292E+01			43.292	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		2,4,6-Trichlorophenol	SOLID	N/A	<4.8704E+01			48.704	ug/Kg			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019296

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
4	SAMPLE	S10V000655		0 0	O		2-Methylphenol	SOLID	N/A	<5.6575E+01			56.575	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		2-Nitrophenol	SOLID	N/A	<5.2836E+01			52.836	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		3 & 4 Methylphenol Total	SOLID	N/A	<5.0573E+01			50.573	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Acenaphthene	SOLID	N/A	<1.7317E+01			17.317	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Benzo(a)anthracene	SOLID	N/A	<3.7192E+01			37.192	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Benzo(b)fluoranthene	SOLID	N/A	<4.8113E+01			48.113	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Benzo(a)pyrene	SOLID	N/A	<4.0537E+01			40.537	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID	N/A	<5.8071E+02			580.71	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Benzo(k)fluoranthene	SOLID	N/A	<3.8471E+01			38.471	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Butylbenzylphthalate	SOLID	N/A	7.6151E+01			49.196	ug/Kg			BJ
4	SAMPLE	S10V000655		0 0	O		4-Chloro-3-methylphenol	SOLID	N/A	<4.2505E+01			42.505	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		2-Chlorophenol	SOLID	N/A	<6.5430E+01			65.43	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Chrysene	SOLID	N/A	<8.0091E+01			80.091	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Dibenz(a,h)anthracene	SOLID	N/A	<5.0278E+01			50.278	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Di-n-butylphthalate	SOLID	N/A	<5.5325E+02			553.25	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Di-n-octylphthalate	SOLID	N/A	<4.6933E+01			46.933	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		N-Nitrosodipropylamine	SOLID	N/A	<5.7165E+01			57.165	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Fluoranthene	SOLID	N/A	<3.4831E+01			34.831	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Hexachlorobutadiene	SOLID	N/A	<6.8579E+01			68.579	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Hexachloroethane	SOLID	N/A	<1.1000E+02			110	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID	N/A	<5.0180E+01			50.18	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Naphthalene	SOLID	N/A	<6.1593E+01			61.593	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Nitrobenzene	SOLID	N/A	<6.3561E+01			63.561	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Pyrene	SOLID	N/A	<6.1888E+01			61.888	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Pyridine	SOLID	N/A	<6.3954E+01			63.954	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Tri-n-butylphosphate	SOLID	N/A	<1.0607E+02			106.07	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		2,6 bis-4Methylphenol	SOLID	N/A	<2.3181E+02			231.81	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		2-Ethoxyethanol	SOLID	N/A	<1.7947E+02			179.47	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Cyclohexanone	SOLID	N/A	<5.4912E+02			549.12	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		N-Nitrosomorpholine	SOLID	N/A	<1.8822E+02			188.22	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		Isobutanol	SOLID	N/A	<4.5290E+02			452.9	ug/Kg			U
4	SAMPLE	S10V000655		0 0	O		2-Fluorobiphenyl	SOLID	1967.826	1.4327E+03			494.81	ug/Kg	72.806	% Recovery	
4	SAMPLE	S10V000655		0 0	O		2-Fluorophenol	SOLID	3935.652	2.3809E+03			739	ug/Kg	60.496	% Recovery	
4	SAMPLE	S10V000655		0 0	O		Nitrobenzene-d5	SOLID	1967.826	1.2430E+03			680.7	ug/Kg	63.166	% Recovery	
4	SAMPLE	S10V000655		0 0	O		2,4,6-Tribromophenol	SOLID	3935.652	3.2731E+03			589.07	ug/Kg	83.165	% Recovery	
4	SAMPLE	S10V000655		0 0	O		Terphenyl-d14	SOLID	1967.826	1.7687E+03			521.38	ug/Kg	89.881	% Recovery	
4	SAMPLE	S10V000655		0 0	O		Phenol-d6	SOLID	3935.652	2.5891E+03				ug/Kg	65.8	% Recovery	
4	SAMPLE	S10V000655		0 0	O		Unknown-1	SOLID		699.33772				ug/Kg			BJT
4	SAMPLE	S10V000655		0 0	O		Unknown-10	SOLID		1608.8201				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-11	SOLID		4405.9208				ug/Kg			JT

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019296

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
4	SAMPLE	S10V000655		0 0	O		Unknown-12	SOLID		1033.1424				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-13	SOLID		3089.6126				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-14	SOLID		1452.8773				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-15	SOLID		2782.4358				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-16	SOLID		3493.0594				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-17	SOLID		2261.5421				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-18	SOLID		2349.3633				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-19	SOLID		2037.8595				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-2	SOLID		643.54244				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-20	SOLID		1085.9716				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-3	SOLID		1451.8544				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-4	SOLID		517.79831				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-5	SOLID		2567.9323				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-6	SOLID		1626.4506				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-7	SOLID		547.78429				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-8	SOLID		2490.1351				ug/Kg			JT
4	SAMPLE	S10V000655		0 0	O		Unknown-9	SOLID		3423.8309				ug/Kg			JT
Sample Sequence 5																	
5	SAMPLE	S10V000664		0 0	O		1,2,4-Trichlorobenzene	SOLID	N/A	<7.5354E+01			75.354	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		1,2-Dichlorobenzene	SOLID	N/A	<9.8038E+01			98.038	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		2,4-Dinitrotoluene	SOLID	N/A	<3.7093E+01			37.093	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		2,4,5-Trichlorophenol	SOLID	N/A	<4.2837E+01			42.837	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		2,4,6-Trichlorophenol	SOLID	N/A	<4.8192E+01			48.192	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		2-Methylphenol	SOLID	N/A	<5.5980E+01			55.98	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		2-Nitrophenol	SOLID	N/A	<5.2281E+01			52.281	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		3 & 4 Methylphenol Total	SOLID	N/A	<5.0041E+01			50.041	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Acenaphthene	SOLID	N/A	<1.7135E+01			17.135	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Benzo(a)anthracene	SOLID	N/A	<3.6801E+01			36.801	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Benzo(b)fluoranthene	SOLID	N/A	<4.7607E+01			47.607	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Benzo(a)pyrene	SOLID	N/A	<4.0111E+01			40.111	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID	N/A	<5.7460E+02			574.6	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Benzo(k)fluoranthene	SOLID	N/A	<3.8066E+01			38.066	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Butylbenzylphthalate	SOLID	N/A	7.4177E+01			48.678	ug/Kg			BJ
5	SAMPLE	S10V000664		0 0	O		4-Chloro-3-methylphenol	SOLID	N/A	<4.2058E+01			42.058	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		2-Chlorophenol	SOLID	N/A	<6.4742E+01			64.742	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Chrysene	SOLID	N/A	<7.9248E+01			79.248	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Dibenz(a,h)anthracene	SOLID	N/A	<4.9749E+01			49.749	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Di-n-butylphthalate	SOLID	N/A	<5.4744E+02			547.44	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Di-n-octylphthalate	SOLID	N/A	<4.6439E+01			46.439	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		N-Nitrosodipropylamine	SOLID	N/A	<5.6564E+01			56.564	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019296

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
5	SAMPLE	S10V000664		0 0	O		Fluoranthene	SOLID	N/A	<3.4464E+01			34.464	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Hexachlorobutadiene	SOLID	N/A	<6.7858E+01			67.858	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Hexachloroethane	SOLID	N/A	<1.0884E+02			108.84	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID	N/A	<4.9652E+01			49.652	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Naphthalene	SOLID	N/A	<6.0945E+01			60.945	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Nitrobenzene	SOLID	N/A	<6.2892E+01			62.892	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Pyrene	SOLID	N/A	<6.1237E+01			61.237	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Pyridine	SOLID	N/A	<6.3282E+01			63.282	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Tri-n-butylphosphate	SOLID	N/A	<1.0495E+02			104.95	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		2,6 bis-4Methylphenol	SOLID	N/A	<2.2937E+02			229.37	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		2-Ethoxyethanol	SOLID	N/A	<1.7758E+02			177.58	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Cyclohexanone	SOLID	N/A	<5.4335E+02			543.35	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		N-Nitrosomorpholine	SOLID	N/A	<1.8624E+02			186.24	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		Isobutanol	SOLID	N/A	<4.4813E+02			448.13	ug/Kg			U
5	SAMPLE	S10V000664		0 0	O		2-Fluorobiphenyl	SOLID	1947.135	1.2817E+03			494.81	ug/Kg	65.825	% Recovery	
5	SAMPLE	S10V000664		0 0	O		2-Fluorophenol	SOLID	3894.27	2.2860E+03			739	ug/Kg	58.702	% Recovery	
5	SAMPLE	S10V000664		0 0	O		Nitrobenzene-d5	SOLID	1947.135	1.1730E+03			680.7	ug/Kg	60.242	% Recovery	
5	SAMPLE	S10V000664		0 0	O		2,4,6-Tribromophenol	SOLID	3894.27	3.0344E+03			589.07	ug/Kg	77.92	% Recovery	
5	SAMPLE	S10V000664		0 0	O		Terphenyl-d14	SOLID	1947.135	1.8395E+03			521.38	ug/Kg	94.472	% Recovery	
5	SAMPLE	S10V000664		0 0	O		Phenol-d6	SOLID	3894.27	2.4574E+03				ug/Kg	63.1	% Recovery	
5	SAMPLE	S10V000664		0 0	O		1,2-Benzenedicarboxyli	SOLID		615.42106				ug/Kg			JNT
5	SAMPLE	S10V000664		0 0	O		Trichloroacetic acid,	SOLID		195.05115				ug/Kg			JNT
5	SAMPLE	S10V000664		0 0	O		Unknown-1	SOLID		403.77096				ug/Kg			BJT
5	SAMPLE	S10V000664		0 0	O		Unknown-2	SOLID		225.7228				ug/Kg			BJT
Sample Sequence 6																	
6	MS	S1004280105	S10V000664	0 0	O		1,2,4-Trichlorobenzene	SOLID	1948.652	1.2839E+03			75.413	ug/Kg	65.887	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		2,4-Dinitrotoluene	SOLID	1948.652	1.7690E+03			37.122	ug/Kg	90.781	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		Acenaphthene	SOLID	1948.652	1.4581E+03			17.148	ug/Kg	74.826	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		4-Chloro-3-methylphen ol	SOLID	3897.305	3.2116E+03			42.091	ug/Kg	82.406	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		2-Chlorophenol	SOLID	3897.305	2.8059E+03			64.793	ug/Kg	71.996	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		N-Nitrosodipropylamine	SOLID	1948.652	1.2808E+03			56.608	ug/Kg	65.727	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		Pyrene	SOLID	1948.652	1.8096E+03			61.285	ug/Kg	92.864	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		2-Fluorobiphenyl	SOLID	1948.652	1.3848E+03			494.81	ug/Kg	71.065	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		2-Fluorophenol	SOLID	3897.305	2.6052E+03			739	ug/Kg	66.846	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		Nitrobenzene-d5	SOLID	1948.652	1.3539E+03			680.7	ug/Kg	69.479	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		2,4,6-Tribromophenol	SOLID	3897.305	3.3007E+03			589.07	ug/Kg	84.692	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		Terphenyl-d14	SOLID	1948.652	1.7468E+03			521.38	ug/Kg	89.641	% Recovery	
6	MS	S1004280105	S10V000664	0 0	O		Phenol-d6	SOLID	3897.305	2.8031E+03				ug/Kg	71.9	% Recovery	
Sample Sequence 7																	
7	MSD	S1004280106	S10V000664	0 0	O		1,2,4-Trichlorobenzene	SOLID	1995.808	1.3285E+03			77.238	ug/Kg	66.565	% Recovery	
															1.0238	% RPD	

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LABCORE Completed Batch Report for Batch# 00019296

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	MSD	S1004280106	S10V000664	0 0	O		2,4-Dinitrotoluene	SOLID	1995.808	1.8162E+03			38.02	ug/Kg	91.001	% Recovery	
															0.24205	% RPD	
7	MSD	S1004280106	S10V000664	0 0	O		Acenaphthene	SOLID	1995.808	1.5202E+03			17.563	ug/Kg	76.17	% Recovery	
															1.7802	% RPD	
7	MSD	S1004280106	S10V000664	0 0	O		4-Chloro-3-methylphenol	SOLID	3991.617	3.3659E+03			43.109	ug/Kg	84.324	% Recovery	
															2.3007	% RPD	
7	MSD	S1004280106	S10V000664	0 0	O		2-Chlorophenol	SOLID	3991.617	2.9415E+03			66.361	ug/Kg	73.692	% Recovery	
															2.3283	% RPD	
7	MSD	S1004280106	S10V000664	0 0	O		N-Nitrosodipropylamine	SOLID	1995.808	1.3605E+03			57.978	ug/Kg	68.168	% Recovery	
															3.6461	% RPD	
7	MSD	S1004280106	S10V000664	0 0	O		Pyrene	SOLID	1995.808	1.7973E+03			62.768	ug/Kg	90.054	% Recovery	
															3.0724	% RPD	
7	MSD	S1004280106	S10V000664	0 0	O		2-Fluorobiphenyl	SOLID	1995.808	1.4655E+03			494.81	ug/Kg	73.429	% Recovery	
															3.2721	% RPD	
7	MSD	S1004280106	S10V000664	0 0	O		2-Fluorophenol	SOLID	3991.617	2.8150E+03			739	ug/Kg	70.523	% Recovery	
															5.3535	% RPD	
7	MSD	S1004280106	S10V000664	0 0	O		Nitrobenzene-d5	SOLID	1995.808	1.4045E+03			680.7	ug/Kg	70.373	% Recovery	
															1.2785	% RPD	
7	MSD	S1004280106	S10V000664	0 0	O		2,4,6-Tribromophenol	SOLID	3991.617	3.4885E+03			589.07	ug/Kg	87.396	% Recovery	
															3.1426	% RPD	
7	MSD	S1004280106	S10V000664	0 0	O		Terphenyl-d14	SOLID	1995.808	1.7948E+03			521.38	ug/Kg	89.928	% Recovery	
															0.31965	% RPD	
7	MSD	S1004280106	S10V000664	0 0	O		Phenol-d6	SOLID	3991.617	3.0196E+03				ug/Kg	75.6	% Recovery	
															5.02	% RPD	

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019296

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00019296

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004280102	BLNK				
2	S1004280103	LCS				
3	S10V000637	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
4	S10V000655	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
5	S10V000664	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
6	S1004280105	MS	S10V000664			
7	S1004280106	MSD	S10V000664			

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LABCORE Completed Batch Report for Batch# 00019488

Analyst: Ojanen, Carol

Book#:

Instrument: GCMSD5 (TUVOK) for SVOA

Method: SVOA 222S #2, LA-523-135 Rev/Mod C-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019295

Batch Comment: C Farm WMC 2010-1, 222S #2, SOL, prep #19295

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1005100011		0 0	O		1,2,4-Trichlorobenzene	SOLID		<7.7400E+01			77.4	ug/Kg			U
1	BLNK	S1005100011		0 0	O		1,2-Dichlorobenzene	SOLID		<1.0070E+02			100.7	ug/Kg			U
1	BLNK	S1005100011		0 0	O		2,4-Dinitrotoluene	SOLID		<3.8100E+01			38.1	ug/Kg			U
1	BLNK	S1005100011		0 0	O		2,4,5-Trichlorophenol	SOLID		<4.4000E+01			44	ug/Kg			U
1	BLNK	S1005100011		0 0	O		2,4,6-Trichlorophenol	SOLID		<4.9500E+01			49.5	ug/Kg			U
1	BLNK	S1005100011		0 0	O		2-Methylphenol	SOLID		<5.7500E+01			57.5	ug/Kg			U
1	BLNK	S1005100011		0 0	O		2-Nitrophenol	SOLID		<5.3700E+01			53.7	ug/Kg			U
1	BLNK	S1005100011		0 0	O		3 & 4 Methylphenol Total	SOLID		<5.1400E+01			51.4	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Acenaphthene	SOLID		<1.7600E+01			17.6	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Benzo(a)anthracene	SOLID		<3.7800E+01			37.8	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Benzo(b)fluoranthene	SOLID		<4.8900E+01			48.9	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Benzo(a)pyrene	SOLID		<4.1200E+01			41.2	ug/Kg			U
1	BLNK	S1005100011		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID		<5.9020E+02			590.2	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Benzo(k)fluoranthene	SOLID		<3.9100E+01			39.1	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Butylbenzylphthalate	SOLID		7.4031E+01			50	ug/Kg			J
1	BLNK	S1005100011		0 0	O		4-Chloro-3-methylphenol	SOLID		<4.3200E+01			43.2	ug/Kg			U
1	BLNK	S1005100011		0 0	O		2-Chlorophenol	SOLID		<6.6500E+01			66.5	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Chrysene	SOLID		<8.1400E+01			81.4	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Dibenz(a,h)anthracene	SOLID		<5.1100E+01			51.1	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Di-n-butylphthalate	SOLID		<5.6230E+02			562.3	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Di-n-octylphthalate	SOLID		<4.7700E+01			47.7	ug/Kg			U
1	BLNK	S1005100011		0 0	O		N-Nitrosodipropylamine	SOLID		<5.8100E+01			58.1	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Fluoranthene	SOLID		<3.5400E+01			35.4	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Hexachlorobutadiene	SOLID		<6.9700E+01			69.7	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Hexachloroethane	SOLID		<1.1180E+02			111.8	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID		<5.1000E+01			51	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Naphthalene	SOLID		<6.2600E+01			62.6	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Nitrobenzene	SOLID		<6.4600E+01			64.6	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Pyrene	SOLID		<6.2900E+01			62.9	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019488

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1005100011		0 0	O		Pyridine	SOLID		<6.5000E+01			65	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Tri-n-butylphosphate	SOLID		<1.0780E+02			107.8	ug/Kg			U
1	BLNK	S1005100011		0 0	O		2,6 bis-4Methylphenol	SOLID		<2.3560E+02			235.6	ug/Kg			U
1	BLNK	S1005100011		0 0	O		2-Ethoxyethanol	SOLID		<1.8240E+02			182.4	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Methylphenols, Total	SOLID		<1.0660E+02			106.6	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Cyclohexanone	SOLID		<5.5810E+02			558.1	ug/Kg			U
1	BLNK	S1005100011		0 0	O		N-Nitrosomorpholine	SOLID		<1.9130E+02			191.3	ug/Kg			U
1	BLNK	S1005100011		0 0	O		Isobutanol	SOLID		<4.6030E+02			460.3	ug/Kg			U
1	BLNK	S1005100011		0 0	O		2-Fluorobiphenyl	SOLID	2000	1.3941E+03			494.81	ug/Kg	69.705	% Recovery	
1	BLNK	S1005100011		0 0	O		2-Fluorophenol	SOLID	4000	2.6643E+03			739	ug/Kg	66.608	% Recovery	
1	BLNK	S1005100011		0 0	O		Nitrobenzene-d5	SOLID	2000	1.3367E+03			680.7	ug/Kg	66.835	% Recovery	
1	BLNK	S1005100011		0 0	O		2,4,6-Tribromophenol	SOLID	4000	2.9388E+03			589.07	ug/Kg	73.47	% Recovery	
1	BLNK	S1005100011		0 0	O		Terphenyl-d14	SOLID	2000	1.7102E+03			521.38	ug/Kg	85.51	% Recovery	
1	BLNK	S1005100011		0 0	O		Phenol-d6	SOLID	4000	2.7210E+03				ug/Kg	68	% Recovery	
1	BLNK	S1005100011		0 0	O		1,2-Benzenedicarboxyli	SOLID		378.57467				ug/Kg			JNT
1	BLNK	S1005100011		0 0	O		Unknown-1	SOLID		363.49651				ug/Kg			JT
1	BLNK	S1005100011		0 0	O		Unknown-2	SOLID		270.73862				ug/Kg			JT
Sample Sequence 2																	
2	LCS	S1005100012		0 0	O		1,2,4-Trichlorobenzene	SOLID	2000	1.2752E+03			77.4	ug/Kg	63.76	% Recovery	
2	LCS	S1005100012		0 0	O		2,4-Dinitrotoluene	SOLID	2000	1.6053E+03			38.1	ug/Kg	80.265	% Recovery	
2	LCS	S1005100012		0 0	O		Acenaphthene	SOLID	2000	1.3582E+03			17.6	ug/Kg	67.91	% Recovery	
2	LCS	S1005100012		0 0	O		4-Chloro-3-methylphen ol	SOLID	4000	2.7110E+03			43.2	ug/Kg	67.775	% Recovery	
2	LCS	S1005100012		0 0	O		2-Chlorophenol	SOLID	4000	2.6504E+03			66.5	ug/Kg	66.26	% Recovery	
2	LCS	S1005100012		0 0	O		N-Nitrosodipropylamine	SOLID	2000	1.2318E+03			58.1	ug/Kg	61.59	% Recovery	
2	LCS	S1005100012		0 0	O		2-Fluorobiphenyl	SOLID	2000	1.3109E+03			494.81	ug/Kg	65.545	% Recovery	
2	LCS	S1005100012		0 0	O		2-Fluorophenol	SOLID	4000	2.4872E+03			739	ug/Kg	62.18	% Recovery	
2	LCS	S1005100012		0 0	O		Nitrobenzene-d5	SOLID	2000	1.2639E+03			680.7	ug/Kg	63.195	% Recovery	
2	LCS	S1005100012		0 0	O		2,4,6-Tribromophenol	SOLID	4000	2.9062E+03			589.07	ug/Kg	72.655	% Recovery	
2	LCS	S1005100012		0 0	O		Terphenyl-d14	SOLID	2000	1.6095E+03			521.38	ug/Kg	80.475	% Recovery	
2	LCS	S1005100012		0 0	O		Phenol-d6	SOLID	4000	2.5814E+03				ug/Kg	64.5	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000673		0 0	O		1,2,4-Trichlorobenzene	SOLID	N/A	<7.6996E+01			76.996	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		1,2-Dichlorobenzene	SOLID	N/A	<1.0017E+02			100.17	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		2,4-Dinitrotoluene	SOLID	N/A	<3.7901E+01			37.901	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		2,4,5-Trichlorophenol	SOLID	N/A	<4.3770E+01			43.77	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		2,4,6-Trichlorophenol	SOLID	N/A	<4.9241E+01			49.241	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		2-Methylphenol	SOLID	N/A	<5.7200E+01			57.2	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		2-Nitrophenol	SOLID	N/A	<5.3420E+01			53.42	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		3 & 4 Methylphenol Total	SOLID	N/A	<5.1132E+01			51.132	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Acenaphthene	SOLID	N/A	<1.7508E+01			17.508	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Benzo(a)anthracene	SOLID	N/A	<3.7603E+01			37.603	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019488

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000673		0 0	O		Benzo(b)fluoranthene	SOLID	N/A	<4.8645E+01			48.645	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Benzo(a)pyrene	SOLID	N/A	<4.0985E+01			40.985	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID	N/A	<5.8712E+02			587.12	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Benzo(k)fluoranthene	SOLID	N/A	<3.8896E+01			38.896	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Butylbenzylphthalate	SOLID	N/A	7.5634E+01			49.739	ug/Kg			BJ
3	SAMPLE	S10V000673		0 0	O		4-Chloro-3-methylphenol	SOLID	N/A	<4.2974E+01			42.974	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		2-Chlorophenol	SOLID	N/A	<6.6153E+01			66.153	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Chrysene	SOLID	N/A	<8.0975E+01			80.975	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Dibenz(a,h)anthracene	SOLID	N/A	<5.0833E+01			50.833	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Di-n-butylphthalate	SOLID	N/A	<5.5936E+02			559.36	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Di-n-octylphthalate	SOLID	N/A	<4.7451E+01			47.451	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		N-Nitrosodipropylamine	SOLID	N/A	<5.7797E+01			57.797	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Fluoranthene	SOLID	N/A	<3.5215E+01			35.215	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Hexachlorobutadiene	SOLID	N/A	<6.9336E+01			69.336	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Hexachloroethane	SOLID	N/A	<1.1122E+02			111.22	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID	N/A	<5.0734E+01			50.734	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Naphthalene	SOLID	N/A	<6.2273E+01			62.273	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Nitrobenzene	SOLID	N/A	<6.4263E+01			64.263	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Pyrene	SOLID	N/A	<6.2572E+01			62.572	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Pyridine	SOLID	N/A	<6.4661E+01			64.661	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Tri-n-butylphosphate	SOLID	N/A	<1.0724E+02			107.24	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		2,6 bis-4Methylphenol	SOLID	N/A	<2.3437E+02			234.37	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		2-Ethoxyethanol	SOLID	N/A	<1.8145E+02			181.45	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Methylphenols, Total	SOLID	N/A	<1.0604E+02			106.04	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Cyclohexanone	SOLID	N/A	<5.5519E+02			555.19	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		N-Nitrosomorpholine	SOLID	N/A	<1.9030E+02			190.3	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		Isobutanol	SOLID	N/A	<4.5790E+02			457.9	ug/Kg			U
3	SAMPLE	S10V000673		0 0	O		2-Fluorobiphenyl	SOLID	1989.554	1.2752E+03			494.81	ug/Kg	64.095	% Recovery	
3	SAMPLE	S10V000673		0 0	O		2-Fluorophenol	SOLID	3979.109	2.4192E+03			739	ug/Kg	60.798	% Recovery	
3	SAMPLE	S10V000673		0 0	O		Nitrobenzene-d5	SOLID	1989.554	1.2039E+03			680.7	ug/Kg	60.511	% Recovery	
3	SAMPLE	S10V000673		0 0	O		2,4,6-Tribromophenol	SOLID	3979.109	2.9024E+03			589.07	ug/Kg	72.941	% Recovery	
3	SAMPLE	S10V000673		0 0	O		Terphenyl-d14	SOLID	1989.554	1.5906E+03			521.38	ug/Kg	79.948	% Recovery	
3	SAMPLE	S10V000673		0 0	O		Phenol-d6	SOLID	3979.109	2.5201E+03				ug/Kg	63.3	% Recovery	
3	SAMPLE	S10V000673		0 0	O		1,2-Benzenedicarboxyli	SOLID		455.4351				ug/Kg			BJNT
3	SAMPLE	S10V000673		0 0	O		Unknown-1	SOLID		1358.673				ug/Kg			BJT
3	SAMPLE	S10V000673		0 0	O		Unknown-2	SOLID		923.92779				ug/Kg			BJT
Sample Sequence 4																	
4	MS	S1005100014	S10V000673	0 0	O		1,2,4-Trichlorobenzene	SOLID	1976.382	1.3179E+03			76.486	ug/Kg	66.682	% Recovery	
4	MS	S1005100014	S10V000673	0 0	O		2,4-Dinitrotoluene	SOLID	1976.382	1.5956E+03			37.65	ug/Kg	80.733	% Recovery	
4	MS	S1005100014	S10V000673	0 0	O		Acenaphthene	SOLID	1976.382	1.3968E+03			17.392	ug/Kg	70.675	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019488

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
4	MS	S1005100014	S10V000673	0 0	O		4-Chloro-3-methylphenol	SOLID	3952.764	2.9671E+03			42.69	ug/Kg	75.064	% Recovery	
4	MS	S1005100014	S10V000673	0 0	O		2-Chlorophenol	SOLID	3952.764	2.6993E+03			65.715	ug/Kg	68.289	% Recovery	
4	MS	S1005100014	S10V000673	0 0	O		N-Nitrosodipropylamine	SOLID	1976.382	1.3282E+03			57.414	ug/Kg	67.204	% Recovery	
4	MS	S1005100014	S10V000673	0 0	O		Pyrene	SOLID	1976.382	1.6167E+03			62.157	ug/Kg	81.801	% Recovery	
4	MS	S1005100014	S10V000673	0 0	O		2-Fluorobiphenyl	SOLID	1976.382	1.3466E+03			494.81	ug/Kg	68.135	% Recovery	
4	MS	S1005100014	S10V000673	0 0	O		2-Fluorophenol	SOLID	3952.764	2.5408E+03			739	ug/Kg	64.279	% Recovery	
4	MS	S1005100014	S10V000673	0 0	O		Nitrobenzene-d5	SOLID	1976.382	1.2770E+03			680.7	ug/Kg	64.613	% Recovery	
4	MS	S1005100014	S10V000673	0 0	O		2,4,6-Tribromophenol	SOLID	3952.764	2.9516E+03			589.07	ug/Kg	74.672	% Recovery	
4	MS	S1005100014	S10V000673	0 0	O		Terphenyl-d14	SOLID	1976.382	1.6182E+03			521.38	ug/Kg	81.877	% Recovery	
4	MS	S1005100014	S10V000673	0 0	O		Phenol-d6	SOLID	3952.764	2.6116E+03				ug/Kg	66.1	% Recovery	
Sample Sequence 5																	
5	MSD	S1005100015	S10V000673	0 0	O		1,2,4-Trichlorobenzene	SOLID	1986.393	1.2010E+03			76.873	ug/Kg	60.461	% Recovery	
															9.7858	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		2,4-Dinitrotoluene	SOLID	1986.393	1.5733E+03			37.841	ug/Kg	79.204	% Recovery	
															1.9120	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		Acenaphthene	SOLID	1986.393	1.3050E+03			17.48	ug/Kg	65.697	% Recovery	
															7.3006	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		4-Chloro-3-methylphenol	SOLID	3972.786	2.8434E+03			42.906	ug/Kg	71.572	% Recovery	
															4.7628	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		2-Chlorophenol	SOLID	3972.786	2.5781E+03			66.048	ug/Kg	64.894	% Recovery	
															5.0982	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		N-Nitrosodipropylamine	SOLID	1986.393	1.1944E+03			57.705	ug/Kg	60.129	% Recovery	
															11.113	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		Pyrene	SOLID	1986.393	1.5406E+03			62.472	ug/Kg	77.558	% Recovery	
															5.3251	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		2-Fluorobiphenyl	SOLID	1986.393	1.2096E+03			494.81	ug/Kg	60.894	% Recovery	
															11.224	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		2-Fluorophenol	SOLID	3972.786	2.4398E+03			739	ug/Kg	61.413	% Recovery	
															4.5604	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		Nitrobenzene-d5	SOLID	1986.393	1.2231E+03			680.7	ug/Kg	61.574	% Recovery	
															4.8167	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		2,4,6-Tribromophenol	SOLID	3972.786	2.9518E+03			589.07	ug/Kg	74.301	% Recovery	
															0.49808	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		Terphenyl-d14	SOLID	1986.393	1.5428E+03			521.38	ug/Kg	77.668	% Recovery	
															5.2763	% RPD	
5	MSD	S1005100015	S10V000673	0 0	O		Phenol-d6	SOLID	3972.786	2.5683E+03				ug/Kg	64.6	% Recovery	
															2.30	% RPD	
Sample Sequence 6																	
6	SAMPLE	S10V000682		0 0	O		1,2,4-Trichlorobenzene	SOLID	N/A	<7.5819E+01			75.819	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		1,2-Dichlorobenzene	SOLID	N/A	<9.8643E+01			98.643	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		2,4-Dinitrotoluene	SOLID	N/A	<3.7322E+01			37.322	ug/Kg			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019488

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
6	SAMPLE	S10V000682		0 0	O		2,4,5-Trichlorophenol	SOLID	N/A	<4.3101E+01			43.101	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		2,4,6-Trichlorophenol	SOLID	N/A	<4.8489E+01			48.489	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		2-Methylphenol	SOLID	N/A	<5.6326E+01			56.326	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		2-Nitrophenol	SOLID	N/A	<5.2603E+01			52.603	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		3 & 4 Methylphenol Total	SOLID	N/A	<5.0350E+01			50.35	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Acenaphthene	SOLID	N/A	<1.7241E+01			17.241	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Benzo(a)anthracene	SOLID	N/A	<3.7028E+01			37.028	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Benzo(b)fluoranthene	SOLID	N/A	<4.7901E+01			47.901	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Benzo(a)pyrene	SOLID	N/A	<4.0359E+01			40.359	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID	N/A	<5.7815E+02			578.15	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Benzo(k)fluoranthene	SOLID	N/A	<3.8301E+01			38.301	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Butylbenzylphthalate	SOLID	N/A	8.4412E+01			48.979	ug/Kg			BJ
6	SAMPLE	S10V000682		0 0	O		4-Chloro-3-methylphenol	SOLID	N/A	<4.2318E+01			42.318	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		2-Chlorophenol	SOLID	N/A	<6.5142E+01			65.142	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Chrysene	SOLID	N/A	<7.9737E+01			79.737	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Dibenz(a,h)anthracene	SOLID	N/A	<5.0056E+01			50.056	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Di-n-butylphthalate	SOLID	N/A	<5.5082E+02			550.82	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Di-n-octylphthalate	SOLID	N/A	<4.6726E+01			46.726	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		N-Nitrosodipropylamine	SOLID	N/A	<5.6913E+01			56.913	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Fluoranthene	SOLID	N/A	<3.4677E+01			34.677	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Hexachlorobutadiene	SOLID	N/A	<6.8276E+01			68.276	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Hexachloroethane	SOLID	N/A	<1.0952E+02			109.52	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID	N/A	<4.9958E+01			49.958	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Naphthalene	SOLID	N/A	<6.1321E+01			61.321	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Nitrobenzene	SOLID	N/A	<6.3281E+01			63.281	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Pyrene	SOLID	N/A	<6.1615E+01			61.615	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Pyridine	SOLID	N/A	<6.3672E+01			63.672	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Tri-n-butylphosphate	SOLID	N/A	<1.0560E+02			105.6	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		2,6 bis-4Methylphenol	SOLID	N/A	<2.3079E+02			230.79	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		2-Ethoxyethanol	SOLID	N/A	<1.7867E+02			178.67	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Methylphenols, Total	SOLID	N/A	<1.0442E+02			104.42	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Cyclohexanone	SOLID	N/A	<5.4670E+02			546.7	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		N-Nitrosomorpholine	SOLID	N/A	<1.8739E+02			187.39	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		Isobutanol	SOLID	N/A	<4.5090E+02			450.9	ug/Kg			U
6	SAMPLE	S10V000682		0 0	O		2-Fluorobiphenyl	SOLID	1959.151	1.2136E+03			494.81	ug/Kg	61.945	% Recovery	
6	SAMPLE	S10V000682		0 0	O		2-Fluorophenol	SOLID	3918.303	2.3382E+03			739	ug/Kg	59.674	% Recovery	
6	SAMPLE	S10V000682		0 0	O		Nitrobenzene-d5	SOLID	1959.151	1.1330E+03			680.7	ug/Kg	57.831	% Recovery	
6	SAMPLE	S10V000682		0 0	O		2,4,6-Tribromophenol	SOLID	3918.303	2.8619E+03			589.07	ug/Kg	73.039	% Recovery	
6	SAMPLE	S10V000682		0 0	O		Terphenyl-d14	SOLID	1959.151	1.4771E+03			521.38	ug/Kg	75.395	% Recovery	
6	SAMPLE	S10V000682		0 0	O		Phenol-d6	SOLID	3918.303	2.4703E+03				ug/Kg	63	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019488

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
6	SAMPLE	S10V000682		0 0	O		1,2-Benzenedicarboxyli	SOLID		201.44724				ug/Kg			BJNT
6	SAMPLE	S10V000682		0 0	O		Unknown-1	SOLID		601.97629				ug/Kg			BJT
6	SAMPLE	S10V000682		0 0	O		Unknown-2	SOLID		402.05329				ug/Kg			BJT

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019488

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00019488

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005100011	BLNK				
2	S1005100012	LCS				
3	S10V000673	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
4	S1005100014	MS	S10V000673			
5	S1005100015	MSD	S10V000673			
6	S10V000682	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019779

Analyst: Ojanen, Carol **Book#:**

Instrument: GCMSD5 (TUVOK) for SVOA

Method: SVOA 222S #2, LA-523-135 Rev/Mod D-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019502

Batch Comment: C Farm WMC 2010-1 SVOA SOL Prep Batch #19502

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK	S1005200001		0 0	O		1,2,4-Trichlorobenzene	SOLID		<7.7400E+01			77.4	ug/Kg			U
1	BLNK	S1005200001		0 0	O		1,2-Dichlorobenzene	SOLID		<1.0070E+02			100.7	ug/Kg			U
1	BLNK	S1005200001		0 0	O		2,4-Dinitrotoluene	SOLID		<3.8100E+01			38.1	ug/Kg			U
1	BLNK	S1005200001		0 0	O		2,4,5-Trichlorophenol	SOLID		<4.4000E+01			44	ug/Kg			U
1	BLNK	S1005200001		0 0	O		2,4,6-Trichlorophenol	SOLID		<4.9500E+01			49.5	ug/Kg			U
1	BLNK	S1005200001		0 0	O		2-Methylphenol	SOLID		<5.7500E+01			57.5	ug/Kg			U
1	BLNK	S1005200001		0 0	O		2-Nitrophenol	SOLID		<5.3700E+01			53.7	ug/Kg			U
1	BLNK	S1005200001		0 0	O		3 & 4 Methylphenol Total	SOLID		<5.1400E+01			51.4	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Acenaphthene	SOLID		<1.7600E+01			17.6	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Benzo(a)anthracene	SOLID		<3.7800E+01			37.8	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Benzo(b)fluoranthene	SOLID		<4.8900E+01			48.9	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Benzo(a)pyrene	SOLID		<4.1200E+01			41.2	ug/Kg			U
1	BLNK	S1005200001		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID		<5.9020E+02			590.2	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Benzo(k)fluoranthene	SOLID		<3.9100E+01			39.1	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Butylbenzylphthalate	SOLID		<5.0000E+01			50	ug/Kg			U
1	BLNK	S1005200001		0 0	O		4-Chloro-3-methylphenol	SOLID		<4.3200E+01			43.2	ug/Kg			U
1	BLNK	S1005200001		0 0	O		2-Chlorophenol	SOLID		<6.6500E+01			66.5	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Chrysene	SOLID		<8.1400E+01			81.4	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Dibenz(a,h)anthracene	SOLID		<5.1100E+01			51.1	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Di-n-butylphthalate	SOLID		<5.6230E+02			562.3	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Di-n-octylphthalate	SOLID		<4.7700E+01			47.7	ug/Kg			U
1	BLNK	S1005200001		0 0	O		N-Nitrosodipropylamine	SOLID		<5.8100E+01			58.1	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Fluoranthene	SOLID		<3.5400E+01			35.4	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Hexachlorobutadiene	SOLID		<6.9700E+01			69.7	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Hexachloroethane	SOLID		<1.1180E+02			111.8	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID		<5.1000E+01			51	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Naphthalene	SOLID		<6.2600E+01			62.6	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Nitrobenzene	SOLID		<6.4600E+01			64.6	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Pyrene	SOLID		<6.2900E+01			62.9	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019779

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
1	BLNK	S1005200001		0 0	O		Pyridine	SOLID		<6.5000E+01			65	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Tri-n-butylphosphate	SOLID		<1.0780E+02			107.8	ug/Kg			U
1	BLNK	S1005200001		0 0	O		2,6 bis-4Methylphenol	SOLID		<2.3560E+02			235.6	ug/Kg			U
1	BLNK	S1005200001		0 0	O		2-Ethoxyethanol	SOLID		<1.8240E+02			182.4	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Methylphenols, Total	SOLID		<1.0660E+02			106.6	ug/Kg			U
1	BLNK	S1005200001		0 0	O		Cyclohexanone	SOLID		<5.5810E+02			558.1	ug/Kg			U
1	BLNK	S1005200001		0 0	O		N-Nitrosomorpholine	SOLID		<1.9130E+02			191.3	ug/Kg			U
1	BLNK	S1005200001		0 0	O		2-Fluorobiphenyl	SOLID	2000	1.5926E+03			494.81	ug/Kg	79.63	% Recovery	
1	BLNK	S1005200001		0 0	O		2-Fluorophenol	SOLID	4000	3.1011E+03				ug/Kg	77.528	% Recovery	
1	BLNK	S1005200001		0 0	O		Nitrobenzene-d5	SOLID	2000	1.5395E+03				ug/Kg	76.975	% Recovery	
1	BLNK	S1005200001		0 0	O		2,4,6-Tribromophenol	SOLID	4000	3.6828E+03				ug/Kg	92.07	% Recovery	
1	BLNK	S1005200001		0 0	O		Terphenyl-d14	SOLID	2000	2.0407E+03				ug/Kg	102.04	% Recovery	
1	BLNK	S1005200001		0 0	O		Phenol-d6	SOLID	4000	3.3520E+03				ug/Kg	83.8	% Recovery	
1	BLNK	S1005200001		0 0	O		1,2-Benzenedicarboxyli	SOLID		321.42698				ug/Kg			JNT
1	BLNK	S1005200001		0 0	O		Unknown-1	SOLID		622.64316				ug/Kg			JT
1	BLNK	S1005200001		0 0	O		Unknown-2	SOLID		446.50143				ug/Kg			JT
Sample Sequence 2																	
2	LCS	S1005200002		0 0	O		1,2,4-Trichlorobenzene	SOLID	2000	1.5230E+03			77.4	ug/Kg	76.15	% Recovery	
2	LCS	S1005200002		0 0	O		2,4-Dinitrotoluene	SOLID	2000	2.0333E+03			38.1	ug/Kg	101.66	% Recovery	
2	LCS	S1005200002		0 0	O		Acenaphthene	SOLID	2000	1.6742E+03			17.6	ug/Kg	83.71	% Recovery	
2	LCS	S1005200002		0 0	O		4-Chloro-3-methylphen ol	SOLID	4000	3.8367E+03			43.2	ug/Kg	95.918	% Recovery	
2	LCS	S1005200002		0 0	O		2-Chlorophenol	SOLID	4000	3.1735E+03			66.5	ug/Kg	79.338	% Recovery	
2	LCS	S1005200002		0 0	O		N-Nitrosodipropylamine	SOLID	2000	1.4075E+03			58.1	ug/Kg	70.375	% Recovery	
2	LCS	S1005200002		0 0	O		Pyrene	SOLID	2000	2.1972E+03			62.9	ug/Kg	109.86	% Recovery	
2	LCS	S1005200002		0 0	O		2-Fluorobiphenyl	SOLID	2000	1.6916E+03				ug/Kg	84.58	% Recovery	
2	LCS	S1005200002		0 0	O		2-Fluorophenol	SOLID	4000	3.3707E+03				ug/Kg	84.268	% Recovery	
2	LCS	S1005200002		0 0	O		Nitrobenzene-d5	SOLID	2000	1.6255E+03				ug/Kg	81.275	% Recovery	
2	LCS	S1005200002		0 0	O		2,4,6-Tribromophenol	SOLID	4000	4.2116E+03				ug/Kg	105.29	% Recovery	
2	LCS	S1005200002		0 0	O		Terphenyl-d14	SOLID	2000	2.2628E+03				ug/Kg	113.14	% Recovery	
2	LCS	S1005200002		0 0	O		Phenol-d6	SOLID	4000	3.5446E+03				ug/Kg	88.6	% Recovery	
Sample Sequence 3																	
3	SAMPLE	S10V000691		0 0	O		1,2,4-Trichlorobenzene	SOLID	N/A	<7.4964E+01			74.964	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		1,2-Dichlorobenzene	SOLID	N/A	<9.7530E+01			97.53	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		2,4-Dinitrotoluene	SOLID	N/A	<3.6901E+01			36.901	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		2,4,5-Trichlorophenol	SOLID	N/A	<4.2615E+01			42.615	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		2,4,6-Trichlorophenol	SOLID	N/A	<4.7942E+01			47.942	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		2-Methylphenol	SOLID	N/A	<5.5690E+01			55.69	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		2-Nitrophenol	SOLID	N/A	<5.2010E+01			52.01	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		3 & 4 Methylphenol Total	SOLID	N/A	<4.9782E+01			49.782	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Acenaphthene	SOLID	N/A	<1.7046E+01			17.046	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Benzo(a)anthracene	SOLID	N/A	<3.6610E+01			36.61	ug/Kg			U

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LABCORE Completed Batch Report for Batch# 00019779

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000691		0 0	O		Benzo(b)fluoranthene	SOLID	N/A	<4.7361E+01			47.361	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Benzo(a)pyrene	SOLID	N/A	<3.9903E+01			39.903	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		bis(2-Ethylhexyl)phthalate	SOLID	N/A	<5.7162E+02			571.62	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Benzo(k)fluoranthene	SOLID	N/A	<3.7869E+01			37.869	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Butylbenzylphthalate	SOLID	N/A	<4.8426E+01			48.426	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		4-Chloro-3-methylphenol	SOLID	N/A	<4.1840E+01			41.84	ug/Kg			Ub
3	SAMPLE	S10V000691		0 0	O		2-Chlorophenol	SOLID	N/A	<6.4407E+01			64.407	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Chrysene	SOLID	N/A	<7.8838E+01			78.838	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Dibenz(a,h)anthracene	SOLID	N/A	<4.9492E+01			49.492	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Di-n-butylphthalate	SOLID	N/A	<5.4460E+02			544.6	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Di-n-octylphthalate	SOLID	N/A	1.2236E+03			46.199	ug/Kg			
3	SAMPLE	S10V000691		0 0	O		N-Nitrosodipropylamine	SOLID	N/A	<5.6271E+01			56.271	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Fluoranthene	SOLID	N/A	<3.4286E+01			34.286	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Hexachlorobutadiene	SOLID	N/A	<6.7506E+01			67.506	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Hexachloroethane	SOLID	N/A	<1.0828E+02			108.28	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Indeno(1,2,3-cd)pyrene	SOLID	N/A	<4.9395E+01			49.395	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Naphthalene	SOLID	N/A	<6.0630E+01			60.63	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Nitrobenzene	SOLID	N/A	<6.2567E+01			62.567	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Pyrene	SOLID	N/A	<6.0920E+01			60.92	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Pyridine	SOLID	N/A	<6.2954E+01			62.954	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Tri-n-butylphosphate	SOLID	N/A	<1.0441E+02			104.41	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		2,6 bis-4Methylphenol	SOLID	N/A	<2.2818E+02			228.18	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		2-Ethoxyethanol	SOLID	N/A	<1.7666E+02			176.66	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Methylphenols, Total	SOLID	N/A	<1.0324E+02			103.24	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Cyclohexanone	SOLID	N/A	<5.4053E+02			540.53	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		N-Nitrosomorpholine	SOLID	N/A	<1.8528E+02			185.28	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		Isobutanol	SOLID	N/A	<4.4581E+02			445.81	ug/Kg			U
3	SAMPLE	S10V000691		0 0	O		2-Fluorobiphenyl	SOLID	1937.046	1.8784E+03				ug/Kg	96.972	% Recovery	
3	SAMPLE	S10V000691		0 0	O		2-Fluorophenol	SOLID	3874.092	3.3199E+03				ug/Kg	85.695	% Recovery	
3	SAMPLE	S10V000691		0 0	O		Nitrobenzene-d5	SOLID	1937.046	1.6349E+03				ug/Kg	84.402	% Recovery	
3	SAMPLE	S10V000691		0 0	O		2,4,6-Tribromophenol	SOLID	3874.092	4.2180E+03				ug/Kg	108.88	% Recovery	
3	SAMPLE	S10V000691		0 0	O		Terphenyl-d14	SOLID	1937.046	2.0626E+03				ug/Kg	106.48	% Recovery	
3	SAMPLE	S10V000691		0 0	O		Phenol-d6	SOLID	3874.092	3.7429E+03				ug/Kg	96.6	% Recovery	
3	SAMPLE	S10V000691		0 0	O		1,2 -Benzenedicarboxyl	SOLID		1784.3801				ug/Kg			JNT
3	SAMPLE	S10V000691		0 0	O		1,2-Benzenedicarboxyli	SOLID		916.34675				ug/Kg			BJNT
3	SAMPLE	S10V000691		0 0	O		n-Hexadecanoic acid	SOLID		1885.2733				ug/Kg			JNT
3	SAMPLE	S10V000691		0 0	O		Ricinoleic acid	SOLID		2810.5461				ug/Kg			JNT
3	SAMPLE	S10V000691		0 0	O		Unknown-1	SOLID		1733.5337				ug/Kg			BJT
3	SAMPLE	S10V000691		0 0	O		Unknown-10	SOLID		3823.6917				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-11	SOLID		2487.2494				ug/Kg			JT

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019779

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	SAMPLE	S10V000691		0 0	O		Unknown-12	SOLID		1759.1904				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-13	SOLID		2678.3966				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-14	SOLID		1632.0034				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-15	SOLID		1873.2032				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-16	SOLID		1595.1852				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-2	SOLID		1466.8772				ug/Kg			BJT
3	SAMPLE	S10V000691		0 0	O		Unknown-3	SOLID		999.89167				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-4	SOLID		1234.2096				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-5	SOLID		1288.1422				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-6	SOLID		1258.5059				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-7	SOLID		1980.9797				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-8	SOLID		2692.1995				ug/Kg			JT
3	SAMPLE	S10V000691		0 0	O		Unknown-9	SOLID		1261.455				ug/Kg			JT
Sample Sequence 4																	
4	MS	S1005200004	S10V000691	0 0	O		1,2,4-Trichlorobenzene	SOLID	1992.428	1.5809E+03			77.107	ug/Kg	79.345	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		2,4-Dinitrotoluene	SOLID	1992.428	2.1062E+03			37.956	ug/Kg	105.71	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		Acenaphthene	SOLID	1992.428	1.8792E+03			17.533	ug/Kg	94.317	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		4-Chloro-3-methylphenol	SOLID	3984.857	4.3117E+03			43.036	ug/Kg	108.2	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		2-Chlorophenol	SOLID	3984.857	3.3468E+03			66.248	ug/Kg	83.988	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		N-Nitrosodipropylamine	SOLID	1992.428	1.4693E+03			57.88	ug/Kg	73.744	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		Pyrene	SOLID	1992.428	2.0216E+03			62.662	ug/Kg	101.46	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		2-Fluorobiphenyl	SOLID	1992.428	1.8839E+03				ug/Kg	94.553	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		2-Fluorophenol	SOLID	3984.857	3.3656E+03				ug/Kg	84.46	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		Nitrobenzene-d5	SOLID	1992.428	1.6218E+03				ug/Kg	81.398	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		2,4,6-Tribromophenol	SOLID	3984.857	4.4012E+03				ug/Kg	110.45	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		Terphenyl-d14	SOLID	1992.428	2.1182E+03				ug/Kg	106.31	% Recovery	
4	MS	S1005200004	S10V000691	0 0	O		Phenol-d6	SOLID	3984.857	3.8098E+03				ug/Kg	95.6	% Recovery	
Sample Sequence 5																	
5	MSD	S1005200005	S10V000691	0 0	O		1,2,4-Trichlorobenzene	SOLID	1976.772	1.6025E+03			76.501	ug/Kg	81.067	% Recovery	
															2.1470	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		2,4-Dinitrotoluene	SOLID	1976.772	2.1138E+03			37.658	ug/Kg	106.93	% Recovery	
															1.1475	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		Acenaphthene	SOLID	1976.772	1.9313E+03			17.396	ug/Kg	97.7	% Recovery	
															3.5236	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		4-Chloro-3-methylphenol	SOLID	3953.545	4.4983E+03			42.698	ug/Kg	113.78	% Recovery	
															5.0275	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		2-Chlorophenol	SOLID	3953.545	3.4624E+03			65.728	ug/Kg	87.577	% Recovery	
															4.1838	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		N-Nitrosodipropylamine	SOLID	1976.772	1.4815E+03			57.425	ug/Kg	74.945	% Recovery	
															1.6155	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		Pyrene	SOLID	1976.772	2.0427E+03			62.17	ug/Kg	103.34	% Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019779

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
															1.8359	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		2-Fluorobiphenyl	SOLID	1976.772	1.9063E+03				ug/Kg	96.435	% Recovery	
															1.9708	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		2-Fluorophenol	SOLID	3953.545	3.5137E+03				ug/Kg	88.875	% Recovery	
															5.0942	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		Nitrobenzene-d5	SOLID	1976.772	1.6952E+03				ug/Kg	85.756	% Recovery	
															5.2144	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		2,4,6-Tribromophenol	SOLID	3953.545	4.7123E+03				ug/Kg	119.19	% Recovery	
															7.6119	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		Terphenyl-d14	SOLID	1976.772	2.1734E+03				ug/Kg	109.95	% Recovery	
															3.3663	% RPD	
5	MSD	S1005200005	S10V000691	0 0	O		Phenol-d6	SOLID	3953.545	3.9205E+03				ug/Kg	99.2	% Recovery	
															3.70	% RPD	

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019779

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019779

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005200001	BLNK				
2	S1005200002	LCS				
3	S10V000691	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
4	S1005200004	MS	S10V000691			
5	S1005200005	MSD	S10V000691			

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMC2010-1

Level:(low/med) LOW

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	72	67	67	72	74	93			0
02	LCS	72	66	68	70	79	91			0
03	S09V000418	77	72	70	77	84	95			0
04	S09V000418MS	79	78	76	83	91	95			0
05	S09V000418MS	73	68	66	74	92	94			0
06	S09V000576	77	76	71	81	88	92			0
07	S09V000628	72	68	63	71	85	88			0
08	S09V001616	79	77	72	82	91	92			0
09	S09V001628	81	75	69	81	93	92			0
10										
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(10-147)
S2 (2FP)	= 2-Fluorophenol	(0-127)
S3 (NBZ)	= Nitrobenzene-d5	(0-125)
S4	= Phenol-d6	(37-125)
S5 (TBP)	= 2,4,6-Tribromophenol	(40-176)
S6 (TPH)	= Terphenyl-d14	(71-175)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMC2010-1

Matrix Spike - CHG Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	2000.0		1332.5	67	2-128
2,4-Dinitrotoluene	2000.0		1745.5	87	55-111
Acenaphthene	2000.0		1443.4	72	36-114
4-Chloro-3-Methylphenol	4000.0		2900.5	72	42-103
2-Chlorophenol	4000.0		2745.4	69	28-111
N-Nitroso-di-n-prop.(1)	2000.0		1342.5	67	18-108
Pyrene	2000.0		1878.6	94	64-113

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 7 outside limits

COMMENTS: _____

19296

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMC2010_1

Level:(low/med) LOW

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	74	70	74	75	76	93			0
02	LCS	76	72	77	76	81	98			0
03	S10V000637	76	68	71	74	86	92			0
04	S09V000655	73	60	63	66	83	90			0
05	S09V000664	66	59	60	63	78	94			0
06	S09V000664MS	71	67	69	72	85	90			0
07	S09V000664MS	73	70	70	76	87	90			0
08										
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(10-147)
S2 (2FP)	= 2-Fluorophenol	(0-127)
S3 (NBZ)	= Nitrobenzene-d5	(0-125)
S4	= Phenol-d6	(37-125)
S5 (TBP)	= 2,4,6-Tribromophenol	(40-176)
S6 (TPH)	= Terphenyl-d14	(71-175)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMC2010_1

Matrix Spike - CHG Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	20000		14482	72	2-128
2,4-Dinitrotoluene	20000		17712	88	55-111
Acenaphthene	20000		15204	76	36-114
4-Chloro-3-Methylphenol	40000		30255	76	42-103
2-Chlorophenol	40000		29605	74	28-111
N-Nitroso-di-n-prop.(1)	20000		14596	73	18-108
Pyrene	20000		19938	100	64-113

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 7 outside limits

COMMENTS: _____

19488

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMC

Level:(low/med) LOW

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	70	67	67	68	73	86			0
02	LCS	66	62	63	64	73	80			0
03	S10V000673	64	61	60	63	73	80			0
04	S10V000673MS	68	64	65	66	75	82			0
05	S10V000673MS	61	61	62	65	74	78			0
06	S10V000682	62	60	58	63	73	75			0
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(10-147)
S2 (2FP)	= 2-Fluorophenol	(0-127)
S3 (NBZ)	= Nitrobenzene-d5	(0-125)
S4	= Phenol-d6	(37-125)
S5 (TBP)	= 2,4,6-Tribromophenol	(40-176)
S6 (TPH)	= Terphenyl-d14	(71-175)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMC

Matrix Spike - CHG Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	2000.0		1275.2	64	2-128
2,4-Dinitrotoluene	2000.0		1605.3	80	55-111
Acenaphthene	2000.0		1358.2	68	36-114
4-Chloro-3-Methylphenol	4000.0		2711.0	68	42-103
2-Chlorophenol	4000.0		2650.4	66	28-111
N-Nitroso-di-n-prop.(1)	2000.0		1231.8	62	18-108
Pyrene	2000.0		1581.9	79	64-113

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 7 outside limits

COMMENTS:

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Batch #19779

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMG

Level: (low/med) LOW

	CHG SAMPLE NO.	S1 (FBP) #	S2 (2FP) #	S3 (NBZ) #	S4 #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	BLANK	80	78	77	84	92	102			0
02	LCS	84	84	81	89	105	113			0
03	S10V000691	97	86	84	97	109	106			0
04	S10V000691MS	94	84	81	96	110	106			0
05	S10V000691MS	96	89	86	99	119	110			0
06										
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(10-147)
S2 (2FP)	= 2-Fluorophenol	(0-127)
S3 (NBZ)	= Nitrobenzene-d5	(0-125)
S4	= Phenol-d6	(37-125)
S5 (TBP)	= 2,4,6-Tribromophenol	(40-176)
S6 (TPH)	= Terphenyl-d14	(71-175)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMG

Matrix Spike - CHG Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	2000.0		1523.0	76	2-128
2,4-Dinitrotoluene	2000.0		2033.3	102	55-111
Acenaphthene	2000.0		1674.2	84	36-114
4-Chloro-3-Methylphenol	4000.0		3836.7	96	42-103
2-Chlorophenol	4000.0		3173.5	79	28-111
N-Nitroso-di-n-prop.(1)	2000.0		1407.5	70	18-108
Pyrene	2000.0		2197.2	110	64-113

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 7 outside limits

COMMENTS: _____

Date: 12 May 2011
To: CH2M Hill (technical representative)
From: Analytical Quality Associates, Inc.
Project: WMA C (C7670)
Subject: Inorganics - Sample Data Group (SDG) 20100213

INTRODUCTION

This memorandum presents the results of data validation for SDG 20100213 prepared by 222-S Laboratory. A list of samples validated along with the analytical methods is provided in the following table.

Sample ID	Sample Date	Media	Validation Level	Analytical Methods
B23R25	4/15/2010	Soil	C	See note 1
B23KN7	4/15/2010	Soil	C	See note 1
B238J9	4/20/2010	Soil	C	See note 1
B25CN2	4/22/2010	Soil	C	See note 1
B23KP6	4/22/2010	Soil	C	See note 1
B23KP9	4/23/2010	Soil	C	See note 1
B23KR2	5/4/2010	Soil	C	See note 1
B23KR5	5/5/2010	Soil	C	See note 1
B25ND7	5/7/2010	Soil	C	See note 1

1 – 6010C (ICP-AES), 6020A (ICP-MS), ICP-MS actinides, ICP-MS fission products, ICP-MS Tc-99 Vadose Water Digest, 7470A (CVAA Hg)

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 requirement for ICP metals are analysis within 180 days of sample collection, and the holding time requirement for mercury is analysis within 28 days of sample collection. Radionuclides in soil have no holding time. Sample preservation for soil samples requires chilling to <6 degrees Celsius.

The samples were analyzed within the prescribed holding times and properly preserved with the following exception. Sample B23KP9 was analyzed for As beyond the holding time but well within 2X the holding time. The As result for sample B23KP9 was a detect and should be qualified as an estimate and flagged "J-."

- **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 batch 19876, the Ca, Fe and Zn laboratory blank results were > the method detection limits (MDLs). The Ca, Fe and Zn results for samples B23R25, B23KN7, B238J9, B25CN2 and B23KP6 were detects >5X the laboratory blank results and should not be qualified.

For batch 20874, the Ca and Fe laboratory blank results were > the MDLs. The Ca and Fe results for samples B23KP9, B23KR2, B23KR5 and B25DN7 were detects >5X the laboratory blank results and should not be qualified.

For batch 20171, the Tl laboratory blank result was > the MDL. The Tl results for samples B23R25, B23KN7, B238J9, B25CN2 and B23KP6 were detects <5X the laboratory blank result and should be qualified as non-detects at the sample concentrations (0.0994 ug/g, 0.0852 ug/g, 0.0634 ug/g, 0.0520 ug/g and 0.0608 ug/g, respectively) and flagged "U."

For batch 20266, the Th-230 laboratory blank result was > the MDL. The Th-230 result for sample B25ND7 was a detect <5X the laboratory blank result and should be qualified as a non-detect at the sample concentration (3.19E-05 ug/g) and flagged "U." The Th-230 results for samples B23KP9, B23KR2 and B23KR5 were non-detects and should not be qualified.

For batch 23864, the Th-230 laboratory blank result was > the MDL. The Th-230 result for sample B238J9 was a detect <5X the laboratory blank result and should be qualified as a non-detect at the sample concentration (4.92E-05 ug/g) and flagged "U."

Trip Blanks

No trip blanks were submitted for validation.

Field Blanks

No field blanks were submitted for validation.

Equipment Blanks

No equipment blanks were submitted for validation.

- **Accuracy**

Accuracy is evaluated by reviewing matrix spike sample results and laboratory control sample results. According to the SAP, the matrix spike sample accuracy limits are 75% to 125% and the laboratory control sample accuracy limits are 80% to 120%. The limits for reported analytes not listed in the SAP are specified by the DV procedure.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Samples

All MS/MSD recoveries were acceptable with the following exceptions.

For batch 19876, the MS recoveries for Na and Si were > the upper acceptance limits, the MS recovery for Zr was < the lower acceptance limit, and the associated post spike recoveries were acceptable. The Na, Si and Zr results for samples B23R25, B23KN7, B238J9, B25CN2 and B23KP6 were detects and should be qualified as estimates and flagged "J."

For batch 20874, the MS recovery for Zr was < the lower acceptance limit and the associated post spike recovery was acceptable. The Zr results for samples B23KP9, B23KR2, B23KR5 and B25ND7 were detects and should be qualified as estimates and flagged "J."

For batch 19661, the MS recovery for Th-232 was < the lower acceptance limit and the associated post spike recovery was acceptable. The Th-230 results for samples B23KN7, B25CN2 and B23KP6 were non-detects and should be qualified as estimates and flagged "UJ." The Th-230 result for sample B23R25 and the Th-232 results for samples B23R25, B23KN7, B25CN2 and B23KP6 were detects and should be qualified as estimates and flagged "J."

For batch 20169, the MS recovery for Sn-117 was < the lower acceptance limit and the associated post spike recovery was acceptable. The Sn-126 results for samples B238J9 and B25CN2 were non-detects and should be qualified as estimates and flagged "UJ." The Sn-126 results for samples B23R25, B23KN7 and B23KP6, and the Sn-117 results for samples B23R25, B23KN7, B238J9, B25CN2 and B23KP6 were detects and should be qualified as estimates and flagged "J."

For batch 20677, the MS recovery for Sn-117 was < the lower acceptance limit and the associated post spike recovery was acceptable. The Sn-117 and Sn-126 results for samples B23KP9, B23KR2, B23KR5 and B25ND7 were non-detects and should be qualified as estimates and flagged "UJ."

Laboratory Control Samples (LCSs)

All LCS recoveries were acceptable with the following exception.

For batch 20874, the LCS recovery for Si was < the lower acceptance limit. The Si results for samples B23KP9, B23KR2, B23KR5 and B25ND7 were detects and should be qualified as estimates and flagged "J-."

- **Precision**

Precision is evaluated by reviewing MS/MSD 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%. The limits for reported analytes not listed in the SAP are specified by the DV procedure. When soil duplicate RPDs exceed the limits and have associated results <5X the SAP required detection limits with differences <2X the required detection limits no precision infraction occurred.

MS/MSD Samples

All MS/MSD RPD values were acceptable.

Laboratory Duplicate Samples

All laboratory duplicate results were acceptable with the following exceptions.

For batch 20874, the Ni laboratory duplicate RPD was > the acceptance limit. The Ni results for samples B23KP9, B23KR2, B23KR5 and B25ND7 were detects and should be qualified as estimates and flagged "J."

Field Duplicate Samples

All field duplicate results were acceptable with the following exceptions. Samples B23R25 and B23KN7 had a Th-232 RPD = 34% and a U-238 RPD = 54%.

Field Split Samples

No field splits were submitted for validation.

- **Detection Limits**

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

All reported sample MDLs with associated non-detected sample results were below the RDLs with the following exceptions.

For all applicable method 6020A batches, the Se MDLs for all samples were significantly greater than the RDL.

- **Completeness**

SDG 20100213 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

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

GRP-GD-003, Rev. 0, Change 0, *Data Validation for Chemical Analyses*, August 2010.

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

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

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

- **N** — The analysis indicates the presence of an analyte that has been tentatively identified.

- **NJ** — The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

- **NJ+** — The analysis indicates the presence of an analyte that has been tentatively identified. The associated value is estimated with a suspected positive bias due to a quality control deficiency identified during data validation.

- **NJ-** — The analysis indicates the presence of an analyte that has been tentatively identified. The associated value is estimated with a suspected negative bias due to a quality control deficiency identified during data validation.

- **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

Inorganic Data Qualification Summary			
SDG: 20100213	Reviewer: AQA	Project: WMA C (C7670)	Page 1 of 1
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
Na, Si	J	B23R25, B23KN7, B238J9, B25CN2, B23KP6	High MS recovery
Zr	J	B23R25, B23KN7, B238J9, B25CN2, B23KP6	Low MS recovery
Si	J-	B23KP9, B23KR2, B23KR5, B25ND7	Low LCS recovery
Ni	J	B23KP9, B23KR2, B23KR5, B25ND7	Poor lab duplicate precision
Zr	J	B23KP9, B23KR2, B23KR5, B25ND7	Low MS recovery
Tl	0.0994U	B23R25	Lab blank contamination
Tl	0.0852U	B23KN7	Lab blank contamination
Tl	0.0634U	B238J9	Lab blank contamination
Tl	0.0520U	B25CN2	Lab blank contamination
Tl	0.0608U	B23KP6	Lab blank contamination
As	J-	B23KP9	Analysis beyond the holding time but within 2X the holding time
Th-230	UJ	B23KN7, B25CN2, B23KP6	Low MS recovery
Th-230	J	B23R25	Low MS recovery
Th-232	J	B23R25, B23KN7, B25CN2, B23KP6	Low MS recovery
Th-230	3.19E-05U	B25ND7	Lab blank contamination
Th-230	4.92E-05U	B238J9	Lab blank contamination
Sn-117	J	B23R25, B23KN7, B238J9, B25CN2, B23KP6	Low MS recovery
Sn-126	UJ	B238J9, B25CN2	Low MS recovery
Sn-126	J	B23R25, B23KN7, B23KP6	Low MS recovery
Sn-117, Sn-126	UJ	B23KP9, B23KR2, B23KR5, B25ND7	Low MS recovery

Comments: None

Appendix 3

Annotated Laboratory Reports

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000401			%WATERA	%WATER-APD	%	n/a	n/a	8.090	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000401			57-12-5	Cyanide	ug/g	97.0	<0.0370	<2.35	<2.33	n/a	n/a	96.9	2.35	n/a	U
S10V000401			7439-97-6	Mercury	ug/g	102	<1.00E-04	<8.65E-03	n/a	n/a	n/a	n/a	8.65E-03	n/a	U
S10V000401			PH	pH	unitless	n/a	n/a	8.84	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000401			18496-25-8	Sulfide	ug/g	89.6	<0.180	27.3	25.6	26.4	6.57	81.8	7.20	n/a	J
S10V000418		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.6	<77.4	<76.5	n/a	n/a	n/a	77.7	76.5	n/a	U
S10V000418		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.6	n/a	n/a	n/a	n/a	99.6	n/a	U
S10V000418		O	121-14-2	2,4-Dinitrotoluene	ug/kg	87.3	<38.1	<37.7	n/a	n/a	n/a	97.2	37.7	n/a	U
S10V000418		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S10V000418		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S10V000418		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S10V000418		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.1	n/a	n/a	n/a	n/a	53.1	n/a	U
S10V000418		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V000418		O	83-32-9	Acenaphthene	ug/kg	72.2	<17.6	<17.4	n/a	n/a	n/a	84.3	17.4	n/a	U
S10V000418		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S10V000418		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S10V000418		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.7	n/a	n/a	n/a	n/a	40.7	n/a	U
S10V000418		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<584	n/a	n/a	n/a	n/a	584	n/a	U
S10V000418		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.7	n/a	n/a	n/a	n/a	38.7	n/a	U
S10V000418		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V000418		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.5	<43.2	<42.7	n/a	n/a	n/a	84.5	42.7	n/a	U
S10V000418		O	95-57-8	2-Chlorophenol	ug/kg	68.6	<66.5	<65.8	n/a	n/a	n/a	81.5	65.8	n/a	U
S10V000418		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.5	n/a	n/a	n/a	n/a	80.5	n/a	U
S10V000418		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S10V000418		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V000418		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S10V000418		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.1	<58.1	<57.5	n/a	n/a	n/a	75.4	57.5	n/a	U
S10V000418		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.0	n/a	n/a	n/a	n/a	35.0	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000418		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.9	n/a	n/a	n/a	n/a	68.9	n/a	U
S10V000418		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V000418		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S10V000418		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S10V000418		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S10V000418		O	129-00-0	Pyrene	ug/kg	93.9	<62.9	<62.2	n/a	n/a	n/a	95.8	62.2	n/a	U
S10V000418		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S10V000418		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V000418		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S10V000418		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S10V000418		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V000418		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<552	n/a	n/a	n/a	n/a	552	n/a	U
S10V000418		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S10V000418		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
S10V000419		W	16984-48-8	Fluoride	ug/g	103	<1.61E-03	1.04	n/a	n/a	n/a	n/a	0.0160	n/a	
S10V000419		W	666-14-8	Glycolate	ug/g	101	<9.37E-03	<0.0930	n/a	n/a	n/a	n/a	0.0930	n/a	U
S10V000419		W	71-50-1	Acetate	ug/g	98.8	<6.04E-03	0.163	n/a	n/a	n/a	n/a	0.0599	n/a	J
S10V000419		W	12311-97-6	Formate	ug/g	102	<4.67E-03	0.564	n/a	n/a	n/a	n/a	0.0463	n/a	J
S10V000419		W	16887-00-6	Chloride	ug/g	100	<9.98E-03	1.23	n/a	n/a	n/a	n/a	0.0990	n/a	
S10V000419		W	14797-65-0	Nitrite	ug/g	100	0.0449	1.40	n/a	n/a	n/a	n/a	0.190	n/a	BJ
S10V000419		W	14808-79-8	Sulfate	ug/g	102	<0.0187	2.76	n/a	n/a	n/a	n/a	0.186	n/a	J
S10V000419		W	338-70-5	Oxalate	ug/g	101	<0.0231	0.472	n/a	n/a	n/a	n/a	0.229	n/a	J
S10V000419		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.575	n/a	n/a	n/a	n/a	0.575	n/a	U
S10V000419		W	14797-55-8	Nitrate	ug/g	101	<0.0208	4.08	n/a	n/a	n/a	n/a	0.206	n/a	
S10V000419		W	14265-44-2	Phosphate	ug/g	101	<0.0167	0.552	n/a	n/a	n/a	n/a	0.166	n/a	J
S10V000420		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.58E+03	6.93E+03	6.75E+03	5.17	1.94E+03	3.28	n/a	
S10V000420		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	86.3	87.3	86.8	1.08	106	0.328	n/a	
S10V000420		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.216	0.208	0.212	3.79	101	0.109	n/a	J

NA = Not Analyzed, ND = Not Detected

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a - LCS Outside Range
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c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

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5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000420		A	7440-69-9	Bismuth		ug/g	91.8	<0.100	12.2	<10.3	n/a	n/a	114	10.9	n/a	J
S10V000420		A	7440-70-2	Calcium		ug/g	91.3	0.586	1.13E+04	1.18E+04	1.15E+04	5.11	1.71E+03	5.47	n/a	
S10V000420		A	7440-45-1	Cerium		ug/g	98.1	<0.0300	23.6	21.3	22.5	10.2	100	3.28	n/a	J
S10V000420		A	7440-48-4	Cobalt		ug/g	93.9	<0.0100	7.58	8.70	8.14	13.8	104	1.09	n/a	J
S10V000420		A	7440-47-3	Chromium		ug/g	93.9	<5.00E-03	7.35	7.65	7.50	3.99	104	0.547	n/a	
S10V000420		A	7440-50-8	Copper		ug/g	95.3	<5.00E-03	11.5	12.1	11.8	5.07	101	0.547	n/a	
S10V000420		A	7439-89-6	Iron		ug/g	93.8	0.0228	1.90E+04	1.93E+04	1.92E+04	1.88	2.07E+03	0.547	n/a	
S10V000420		A	7440-09-7	Potassium		ug/g	102	<0.500	1.45E+03	1.49E+03	1.47E+03	2.42	357	54.7	n/a	
S10V000420		A	7439-91-0	Lanthanum		ug/g	96.3	<3.00E-03	10.0	9.81	9.91	2.06	99.8	0.328	n/a	
S10V000420		A	7439-93-2	Lithium		ug/g	100	<3.00E-03	7.28	7.66	7.47	5.14	103	0.328	n/a	
S10V000420		A	7439-95-4	Magnesium		ug/g	92.3	<0.0500	4.90E+03	4.98E+03	4.94E+03	1.67	1.07E+03	5.47	n/a	
S10V000420		A	7439-96-5	Manganese		ug/g	93.3	<3.00E-03	348	341	344	2.12	107	0.328	n/a	
S10V000420		A	7439-98-7	Molybdenum		ug/g	93.9	<0.0200	<2.19	<2.07	n/a	n/a	93.8	2.19	n/a	U
S10V000420		A	7440-23-5	Sodium	J	ug/g	98.1	<0.100	200	207	203	3.82	249	10.9	n/a	b
S10V000420		A	7440-02-0	Nickel		ug/g	92.8	<0.0200	10.6	11.0	10.8	3.70	107	2.19	n/a	J
S10V000420		A	7723-14-0	Phosphorus		ug/g	93.9	<0.0500	862	912	887	5.64	108	5.47	n/a	
S10V000420		A	7439-92-1	Lead		ug/g	95.2	<0.0500	9.00	8.76	8.88	2.71	105	5.47	n/a	J
S10V000420		A	7704-34-9	Sulfur		ug/g	94.7	<0.100	60.1	67.2	63.6	11.2	111	10.9	n/a	J
S10V000420		A	7440-21-3	Silicon	J	ug/g	85.0	<0.0300	150	n/a	n/a	n/a	196	3.28	n/a	b
S10V000420		A	7440-24-6	Strontium		ug/g	96.3	<3.00E-03	31.4	34.5	32.9	9.41	108	0.328	n/a	
S10V000420		A	7440-32-6	Titanium		ug/g	93.9	<5.00E-03	968	1000	984	3.20	169	0.547	n/a	
S10V000420		A	7440-62-2	Vanadium		ug/g	95.9	<5.00E-03	33.3	33.9	33.6	1.71	106	0.547	n/a	
S10V000420		A	7440-65-5	Yttrium		ug/g	91.7	<2.00E-03	9.98	n/a	n/a	n/a	95.5	0.219	n/a	
S10V000420		A	7440-66-6	Zinc		ug/g	92.7	9.32E-03	35.9	37.6	36.7	4.65	104	0.547	n/a	
S10V000420		A	7440-67-7	Zirconium	J	ug/g	92.8	<5.00E-03	4.27	3.32	3.80	25.2	34.3	0.547	n/a	BJb
S10V000420		A	14269-63-7	Thorium-230	J	ug/g	n/a	<2.80E-06	3.83E-05	<2.90E-05	n/a	n/a	n/a	3.06E-05	n/a	J
S10V000420		A	TH-232	Thorium-232	J	ug/g	106	<6.80E-05	3.77	3.17	3.47	17.5	62.2	7.44E-04	n/a	b
S10V000420		A	13968-55-3	Uranium-233		ug/g	n/a	<4.00E-06	1.16E-04	1.26E-04	1.21E-04	8.04	n/a	4.38E-05	n/a	J

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b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000420		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.19E-05	<2.07E-05	n/a	n/a	n/a	2.19E-05	n/a	U
S10V000420		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	3.83E-03	4.56E-03	4.19E-03	17.6	88.6	4.81E-05	n/a	
S10V000420		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	2.07E-05	<1.65E-05	n/a	n/a	n/a	1.75E-05	n/a	J
S10V000420		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.32E-04	<2.19E-04	n/a	n/a	106	2.32E-04	n/a	U
S10V000420		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.558	0.660	0.609	16.7	94.5	2.41E-03	n/a	
S10V000420		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0875	0.121	n/a	n/a	108	0.0875	n/a	U
S10V000420		A	7440-38-2	Arsenic	ug/g	112	<0.0420	3.91	3.94	3.92	0.855	95.6	0.460	n/a	
S10V000420		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.101	0.0862	0.0937	16.0	110	0.0328	n/a	
S10V000420		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.667	<0.631	n/a	n/a	101	0.667	n/a	U
S10V000420		A	7440-28-0	Thallium 0.0994U	ug/g	92.9	2.23E-03	0.0994	0.0917	0.0956	8.05	95.7	6.57E-03	n/a	B
~~S10V000421~~		~~S~~	~~14798-03-9~~	~~Ammonium~~	~~ug/g~~	~~95.4~~	~~0.183~~	~~2.97~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.474~~	~~n/a~~	~~BJ~~
S10V000422		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.52E-04	<3.43E-04	n/a	n/a	101	3.52E-04	n/a	U
S10V000422		A	SN-117	Tin-117 J	ug/g	109	<1.10E-03	0.0174	0.0166	0.0170	4.90	58.6	0.0109	n/a	Jb
S10V000422		A	15832-50-5	Tin-126 J	ug/g	n/a	<2.00E-05	2.17E-04	2.51E-04	2.34E-04	14.9	n/a	1.98E-04	n/a	Jb
~~S10V000571~~			~~13966-00-2~~	~~Potassium-40~~	~~uCi/g~~	~~n/a~~	~~<7.29E-06~~	~~8.59E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~6.33E-06~~	~~47.38~~	~~J~~
S10V000571			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.33E-07	n/a	n/a	n/a	n/a	3.33E-07	n/a	U
S10V000571			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<1.00E-06	n/a	n/a	n/a	n/a	1.00E-06	n/a	U
S10V000571			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	7.52E-06	n/a	n/a	n/a	n/a	3.73E-07	7.59	
S10V000571			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.59E-06	n/a	n/a	n/a	n/a	1.59E-06	n/a	U
S10V000571			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<1.02E-06	n/a	n/a	n/a	n/a	1.02E-06	n/a	U
S10V000571			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<5.72E-07	n/a	n/a	n/a	n/a	5.72E-07	n/a	U
S10V000571			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	1.06E-06	n/a	n/a	n/a	n/a	8.95E-07	26.21	
S10V000571			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<1.08E-05	n/a	n/a	n/a	n/a	1.08E-05	n/a	U
S10V000571			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<3.65E-06	n/a	n/a	n/a	n/a	3.65E-06	n/a	U
S10V000571			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<1.70E-07	n/a	n/a	n/a	n/a	1.70E-07	n/a	U
S10V000572		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<1.63E-07	n/a	n/a	n/a	n/a	1.63E-07	n/a	U
S10V000572		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.07E-07	n/a	n/a	n/a	n/a	4.07E-07	n/a	U
~~S10V000572~~		~~E~~	~~15510-73-3~~	~~Curium-242~~	~~uCi/g~~	~~n/a~~	~~<2.15E-07~~	~~<1.63E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~1.63E-07~~	~~n/a~~	~~U~~

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000572~~		~~E~~	~~PU-239/240~~	~~Plutonium-239/240~~	~~uCi/g~~	~~94.1~~	~~<2.75E-07~~	~~<2.78E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.78E-07~~	~~n/a~~	~~U~~
S10V000572		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.78E-07	n/a	n/a	n/a	n/a	2.78E-07	n/a	U
S10V000573		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	1.34E-06	n/a	n/a	n/a	n/a	1.12E-07	19.729	
S10V000574		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	1.56E-05	n/a	n/a	n/a	n/a	1.06E-05	142.893	J
S10V000574		E	15758-45-9	Selenium-79	uCi/g	n/a	<7.37E-07	<8.94E-07	n/a	n/a	n/a	n/a	8.94E-07	n/a	U
S10V001175		W	14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	<2.58E-06	n/a	n/a	n/a	n/a	2.58E-06	n/a	U
~~S10V001175~~		~~W~~	~~10028-17-8~~	~~Tritium~~	~~uCi/g~~	~~94.2~~	~~<4.07E-06~~	~~<3.89E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~3.89E-06~~	~~n/a~~	~~U~~
S10V001219		A	7440-36-0	Antimony	ug/g	99.4	<0.0100	0.286	0.290	0.288	1.27	89.5	9.60E-03	n/a	
S10V001729		WV	14133-76-7	Technetium-99	ug/g	107	<4.00E-06	<4.17E-06	<4.26E-06	n/a	n/a	90.8	4.17E-06	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000402			%WATERA	%WATER-APD	%	n/a	n/a	7.320	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000402			57-12-5	Cyanide	ug/g	97.0	<0.0370	<2.46	n/a	n/a	n/a	n/a	2.46	n/a	U
S10V000402			7439-97-6	Mercury	ug/g	102	<1.00E-04	<8.63E-03	n/a	n/a	n/a	n/a	8.63E-03	n/a	U
S10V000402			PH	pH	unitless	n/a	n/a	8.15	8.63	8.39	5.72	n/a	0.0100	n/a	
S10V000402			18496-25-8	Sulfide	ug/g	89.6	<0.180	34.8	n/a	n/a	n/a	n/a	7.23	n/a	J
S10V000575			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.46E-05	n/a	n/a	n/a	n/a	6.68E-06	30.93	J
S10V000575			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.54E-07	n/a	n/a	n/a	n/a	3.54E-07	n/a	U
S10V000575			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<9.75E-07	n/a	n/a	n/a	n/a	9.75E-07	n/a	U
S10V000575			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	5.40E-06	n/a	n/a	n/a	n/a	4.06E-07	8.93	
S10V000575			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.49E-06	n/a	n/a	n/a	n/a	1.49E-06	n/a	U
S10V000575			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<1.10E-06	n/a	n/a	n/a	n/a	1.10E-06	n/a	U
S10V000575			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<5.91E-07	n/a	n/a	n/a	n/a	5.91E-07	n/a	U
S10V000575			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	5.33E-07	n/a	n/a	n/a	n/a	6.25E-07	47.66	Jc
S10V000575			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	7.51E-07	n/a	n/a	n/a	n/a	8.51E-07	44.49	J
S10V000575			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<1.10E-05	n/a	n/a	n/a	n/a	1.10E-05	n/a	U
S10V000575			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<3.66E-06	n/a	n/a	n/a	n/a	3.66E-06	n/a	U
S10V000575			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.14E-07	n/a	n/a	n/a	n/a	2.14E-07	n/a	U
S10V000576		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.6	<77.4	<69.7	n/a	n/a	n/a	n/a	69.7	n/a	U
S10V000576		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<90.6	n/a	n/a	n/a	n/a	90.6	n/a	U
S10V000576		O	121-14-2	2,4-Dinitrotoluene	ug/kg	87.3	<38.1	<34.3	n/a	n/a	n/a	n/a	34.3	n/a	U
S10V000576		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<39.6	n/a	n/a	n/a	n/a	39.6	n/a	U
S10V000576		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<44.6	n/a	n/a	n/a	n/a	44.6	n/a	U
S10V000576		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<51.8	n/a	n/a	n/a	n/a	51.8	n/a	U
S10V000576		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U
S10V000576		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<46.3	n/a	n/a	n/a	n/a	46.3	n/a	U
S10V000576		O	83-32-9	Acenaphthene	ug/kg	72.2	<17.6	<15.8	n/a	n/a	n/a	n/a	15.8	n/a	U
S10V000576		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<34.0	n/a	n/a	n/a	n/a	34.0	n/a	U
S10V000576		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000577		W	666-14-8	Glycolate	ug/g	101	<9.37E-03	<0.0936	n/a	n/a	n/a	n/a	0.0936	n/a	U
S10V000577		W	71-50-1	Acetate	ug/g	98.8	<6.04E-03	<0.0603	n/a	n/a	n/a	n/a	0.0603	n/a	U
S10V000577		W	12311-97-6	Formate	ug/g	102	<4.67E-03	0.311	n/a	n/a	n/a	n/a	0.0467	n/a	J
S10V000577		W	16887-00-6	Chloride	ug/g	100	<9.98E-03	0.417	n/a	n/a	n/a	n/a	0.0997	n/a	J
S10V000577		W	14797-65-0	Nitrite	ug/g	100	0.0449	0.643	n/a	n/a	n/a	n/a	0.192	n/a	BJ
S10V000577		W	14808-79-8	Sulfate	ug/g	102	<0.0187	2.00	n/a	n/a	n/a	n/a	0.187	n/a	J
S10V000577		W	338-70-5	Oxalate	ug/g	101	<0.0231	0.405	n/a	n/a	n/a	n/a	0.231	n/a	J
S10V000577		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.579	n/a	n/a	n/a	n/a	0.579	n/a	U
S10V000577		W	14797-55-8	Nitrate	ug/g	101	<0.0208	2.07	n/a	n/a	n/a	n/a	0.208	n/a	J
S10V000577		W	14265-44-2	Phosphate	ug/g	101	<0.0167	0.512	n/a	n/a	n/a	n/a	0.167	n/a	J
S10V000578		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.71E+03	n/a	n/a	n/a	n/a	3.16	n/a	
S10V000578		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	83.8	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000578		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.191	n/a	n/a	n/a	n/a	0.105	n/a	J
S10V000578		A	7440-70-2	Calcium	ug/g	91.3	0.586	1.11E+04	n/a	n/a	n/a	n/a	5.27	n/a	
S10V000578		A	7440-45-1	Cerium	ug/g	98.1	<0.0300	20.8	n/a	n/a	n/a	n/a	3.16	n/a	J
S10V000578		A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	8.81	n/a	n/a	n/a	n/a	1.05	n/a	J
S10V000578		A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	7.57	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	11.4	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7439-89-6	Iron	ug/g	93.8	0.0228	2.01E+04	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-09-7	Potassium	ug/g	102	<0.500	1.33E+03	n/a	n/a	n/a	n/a	52.7	n/a	
S10V000578		A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	9.22	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000578		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	7.08	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000578		A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	4.85E+03	n/a	n/a	n/a	n/a	5.27	n/a	
S10V000578		A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	337	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000578		A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	<2.11	n/a	n/a	n/a	n/a	2.11	n/a	U
S10V000578		A	7440-23-5	Sodium J	ug/g	98.1	<0.100	201	n/a	n/a	n/a	n/a	10.5	n/a	b
S10V000578		A	7440-02-0	Nickel	ug/g	92.8	<0.0200	11.5	n/a	n/a	n/a	n/a	2.11	n/a	J
S10V000578		A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	889	n/a	n/a	n/a	n/a	5.27	n/a	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

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Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000578		A	7704-34-9	Sulfur		ug/g	94.7	<0.100	61.9	n/a	n/a	n/a	n/a	10.5	n/a	J
S10V000578		A	7440-21-3	Silicon	J	ug/g	85.0	<0.0300	172	n/a	n/a	n/a	n/a	3.16	n/a	b
S10V000578		A	7440-24-6	Strontium		ug/g	96.3	<3.00E-03	33.3	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000578		A	7440-32-6	Titanium		ug/g	93.9	<5.00E-03	1.10E+03	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-62-2	Vanadium		ug/g	95.9	<5.00E-03	37.9	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-65-5	Yttrium		ug/g	91.7	<2.00E-03	9.91	n/a	n/a	n/a	n/a	0.211	n/a	
S10V000578		A	7440-66-6	Zinc		ug/g	92.7	9.32E-03	36.8	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-67-7	Zirconium	J	ug/g	92.8	<5.00E-03	2.88	n/a	n/a	n/a	n/a	0.527	n/a	BJb
S10V000578		A	14269-63-7	Thorium-230	UJ	ug/g	n/a	<2.80E-06	<2.95E-05	n/a	n/a	n/a	n/a	2.95E-05	n/a	U
S10V000578		A	TH-232	Thorium-232	J	ug/g	106	<6.80E-05	5.32	n/a	n/a	n/a	n/a	7.16E-04	n/a	b
S10V000578		A	13968-55-3	Uranium-233		ug/g	n/a	<4.00E-06	2.16E-04	n/a	n/a	n/a	n/a	4.21E-05	n/a	J
S10V000578		A	13966-29-5	Uranium-234		ug/g	n/a	<2.00E-06	4.14E-05	n/a	n/a	n/a	n/a	2.11E-05	n/a	J
S10V000578		A	15117-96-1	Uranium-235		ug/g	96.7	<4.40E-06	6.60E-03	n/a	n/a	n/a	n/a	4.63E-05	n/a	
S10V000578		A	13982-70-2	Uranium-236		ug/g	n/a	<1.60E-06	1.98E-05	n/a	n/a	n/a	n/a	1.69E-05	n/a	J
S10V000578		A	13994-20-2	Neptunium-237		ug/g	103	<2.12E-05	<2.23E-04	n/a	n/a	n/a	n/a	2.23E-04	n/a	U
S10V000578		A	U-238	Uranium-238		ug/g	105	<2.20E-04	0.974	n/a	n/a	n/a	n/a	2.32E-03	n/a	
S10V000578		A	7440-22-4	Silver		ug/g	97.1	<8.00E-03	<0.0843	n/a	n/a	n/a	99.0	0.0843	n/a	U
S10V000578		A	7440-38-2	Arsenic		ug/g	112	<0.0420	4.52	n/a	n/a	n/a	n/a	0.442	n/a	
S10V000578		A	7440-43-9	Cadmium		ug/g	98.1	<3.00E-03	0.0892	n/a	n/a	n/a	n/a	0.0316	n/a	
S10V000578		A	7439-92-1	Lead		ug/g	101	<0.0310	6.28	n/a	n/a	n/a	n/a	0.327	n/a	
S10V000578		A	7782-49-2	Selenium		ug/g	107	<0.0610	<0.643	n/a	n/a	n/a	88.6	0.643	n/a	U
S10V000578		A	7440-28-0	Thallium	0.0852U	ug/g	92.9	2.23E-03	0.0852	n/a	n/a	n/a	n/a	6.32E-03	n/a	B
~~S10V000579~~		~~S~~	~~14798-03-9~~	~~Ammonium~~		~~ug/g~~	~~95.4~~	~~0.183~~	~~2.75~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.475~~	~~n/a~~	~~BJ~~
S10V000624		A	14133-76-7	Technetium-99		ug/g	104	<3.00E-05	<3.28E-04	n/a	n/a	n/a	n/a	3.28E-04	n/a	U
S10V000624		A	SN-117	Tin-117	J	ug/g	109	<1.10E-03	0.0181	n/a	n/a	n/a	n/a	0.0102	n/a	Jb
S10V000624		A	15832-50-5	Tin-126	J	ug/g	n/a	<2.00E-05	2.79E-04	n/a	n/a	n/a	n/a	1.85E-04	n/a	Jb
~~S10V000625~~		~~E~~	~~CM-243/244~~	~~Curium-243/244~~		~~uCi/g~~	~~n/a~~	~~<2.15E-07~~	~~<1.82E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~1.82E-07~~	~~n/a~~	~~U~~
~~S10V000625~~		~~E~~	~~14596-10-2~~	~~Americium-241~~		~~uCi/g~~	~~100~~	~~<5.39E-07~~	~~<4.56E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~4.56E-07~~	~~n/a~~	~~U~~

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000625		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<1.82E-07	n/a	n/a	n/a	n/a	1.82E-07	n/a	U
S10V000625		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.47E-07	n/a	n/a	n/a	n/a	2.47E-07	n/a	U
S10V000625		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.47E-07	n/a	n/a	n/a	n/a	2.47E-07	n/a	U
S10V000626		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	1.45E-06	n/a	n/a	n/a	n/a	1.24E-07	20.079	
S10V000627		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	3.90E-04	n/a	n/a	n/a	n/a	1.08E-05	5.237	
S10V000627		E	15758-45-9	Selenium-79	uCi/g	n/a	<7.37E-07	<1.73E-06	n/a	n/a	n/a	n/a	1.73E-06	n/a	U
S10V001176		W	10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	<4.85E-06	4.26E-06	n/a	n/a	94.5	4.85E-06	n/a	U
S10V001214		A	7440-36-0	Antimony	ug/g	99.4	<0.0100	0.267	n/a	n/a	n/a	n/a	9.34E-03	n/a	
S10V001730		WV	14133-76-7	Technetium-99	ug/g	107	<4.00E-06	<4.15E-06	n/a	n/a	n/a	n/a	4.15E-06	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000403			%WATERA	%WATER-APD	%	n/a	n/a	3.690	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000403			57-12-5	Cyanide	ug/g	97.0	<0.0370	<2.48	n/a	n/a	n/a	n/a	2.48	n/a	U
S10V000403			7439-97-6	Mercury	ug/g	102	<1.00E-04	<9.34E-03	n/a	n/a	n/a	n/a	9.34E-03	n/a	U
S10V000403			PH	pH	unitless	n/a	n/a	8.46	8.53	8.50	0.824	n/a	0.0100	n/a	
S10V000403			18496-25-8	Sulfide	ug/g	108	<0.180	21.3	23.3	22.3	8.86	105	7.09	n/a	J
S10V000412			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.05	n/a	n/a	n/a	n/a	n/a	n/a	
S10V000623			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.22E-05	n/a	n/a	n/a	n/a	5.37E-06	29.82	
S10V000623			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.03E-07	n/a	n/a	n/a	n/a	3.03E-07	n/a	U
S10V000623			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<7.19E-07	n/a	n/a	n/a	n/a	7.19E-07	n/a	U
S10V000623			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.39E-07	n/a	n/a	n/a	n/a	3.39E-07	n/a	U
S10V000623			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.19E-06	n/a	n/a	n/a	n/a	1.19E-06	n/a	U
S10V000623			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.71E-07	n/a	n/a	n/a	n/a	8.71E-07	n/a	U
S10V000623			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.51E-07	n/a	n/a	n/a	n/a	4.51E-07	n/a	U
S10V000623			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	6.64E-07	n/a	n/a	n/a	n/a	5.80E-07	38.19	J
S10V000623			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.31E-06	n/a	n/a	n/a	n/a	8.31E-06	n/a	U
S10V000623			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.85E-06	n/a	n/a	n/a	n/a	2.85E-06	n/a	U
S10V000623			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.32E-07	n/a	n/a	n/a	n/a	2.32E-07	n/a	U
S10V000628		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.6	<77.4	<76.6	n/a	n/a	n/a	n/a	76.6	n/a	U
S10V000628		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.6	n/a	n/a	n/a	n/a	99.6	n/a	U
S10V000628		O	121-14-2	2,4-Dinitrotoluene	ug/kg	87.3	<38.1	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V000628		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S10V000628		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S10V000628		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S10V000628		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.1	n/a	n/a	n/a	n/a	53.1	n/a	U
S10V000628		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V000628		O	83-32-9	Acenaphthene	ug/kg	72.2	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S10V000628		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S10V000628		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000629		W	666-14-8	Glycolate	ug/g	93.7	<9.37E-03	<0.0987	<0.0995	n/a	n/a	n/a	0.0987	n/a	U
S10V000629		W	71-50-1	Acetate	ug/g	92.9	<6.04E-03	0.528	0.675	0.601	24.4	n/a	0.0636	n/a	J
S10V000629		W	12311-97-6	Formate	ug/g	96.2	<4.67E-03	0.740	0.740	0.740	0.0919	n/a	0.0492	n/a	J
S10V000629		W	16887-00-6	Chloride	ug/g	100	<9.98E-03	0.560	0.633	0.597	12.3	n/a	0.105	n/a	J
S10V000629		W	14797-65-0	Nitrite	ug/g	100	<0.0192	2.42	2.31	2.37	4.52	n/a	0.202	n/a	J
S10V000629		W	14808-79-8	Sulfate	ug/g	99.5	<0.0187	7.35	5.89	6.62	22.1	n/a	0.197	n/a	
S10V000629		W	338-70-5	Oxalate	ug/g	99.4	<0.0231	3.21	1.70	2.45	61.4	n/a	0.243	n/a	c
S10V000629		W	24959-67-9	Bromide	ug/g	99.4	<0.0580	<0.611	<0.616	n/a	n/a	n/a	0.611	n/a	U
S10V000629		W	14797-55-8	Nitrate	ug/g	98.0	<0.0208	5.87	5.93	5.90	1.07	n/a	0.219	n/a	
S10V000629		W	14265-44-2	Phosphate	ug/g	97.3	<0.0167	0.955	1.06	1.01	10.5	n/a	0.176	n/a	J
S10V000630		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	5.59E+03	n/a	n/a	n/a	n/a	3.13	n/a	
S10V000630		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	70.1	n/a	n/a	n/a	n/a	0.313	n/a	
S10V000630		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.144	n/a	n/a	n/a	n/a	0.104	n/a	J
S10V000630		A	7440-69-9	Bismuth	ug/g	91.8	<0.100	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
S10V000630		A	7440-70-2	Calcium	ug/g	91.3	0.586	7.36E+03	n/a	n/a	n/a	n/a	5.22	n/a	
S10V000630		A	7440-45-1	Cerium	ug/g	98.1	<0.0300	19.1	n/a	n/a	n/a	n/a	3.13	n/a	J
S10V000630		A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	5.32	n/a	n/a	n/a	n/a	1.04	n/a	J
S10V000630		A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	10.6	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	11.0	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7439-89-6	Iron	ug/g	93.8	0.0228	1.60E+04	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-09-7	Potassium	ug/g	102	<0.500	945	n/a	n/a	n/a	n/a	52.2	n/a	
S10V000630		A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	8.28	n/a	n/a	n/a	n/a	0.313	n/a	
S10V000630		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	6.32	n/a	n/a	n/a	n/a	0.313	n/a	
S10V000630		A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	4.00E+03	n/a	n/a	n/a	n/a	5.22	n/a	
S10V000630		A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	241	n/a	n/a	n/a	n/a	0.313	n/a	
S10V000630		A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	<2.09	n/a	n/a	n/a	n/a	2.09	n/a	U
S10V000630		A	7440-23-5	Sodium J	ug/g	98.1	<0.100	286	n/a	n/a	n/a	n/a	10.4	n/a	b
S10V000630		A	7440-02-0	Nickel	ug/g	92.8	<0.0200	10.6	n/a	n/a	n/a	n/a	2.09	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000630		A	7723-14-0	Phosphorus		ug/g	93.9	<0.0500	799	n/a	n/a	n/a	n/a	5.22	n/a	
S10V000630		A	7704-34-9	Sulfur		ug/g	94.7	<0.100	45.2	n/a	n/a	n/a	n/a	10.4	n/a	J
S10V000630		A	7440-21-3	Silicon	J	ug/g	85.0	<0.0300	105	n/a	n/a	n/a	n/a	3.13	n/a	b
S10V000630		A	7440-24-6	Strontium		ug/g	96.3	<3.00E-03	28.1	n/a	n/a	n/a	n/a	0.313	n/a	
S10V000630		A	7440-32-6	Titanium		ug/g	93.9	<5.00E-03	883	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-62-2	Vanadium		ug/g	95.9	<5.00E-03	32.0	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-65-5	Yttrium		ug/g	91.7	<2.00E-03	9.21	n/a	n/a	n/a	n/a	0.209	n/a	
S10V000630		A	7440-66-6	Zinc		ug/g	92.7	9.32E-03	28.3	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-67-7	Zirconium	J	ug/g	92.8	<5.00E-03	1.28	n/a	n/a	n/a	n/a	0.522	n/a	BJb
S10V000630		A	14269-63-7	Thorium-230	4.92E-05U	ug/g	n/a	<2.80E-06	4.92E-05	n/a	n/a	n/a	n/a	2.93E-05	n/a	BJ
S10V000630		A	TH-232	Thorium-232		ug/g	106	<6.80E-05	2.35	n/a	n/a	n/a	n/a	2.09E-03	n/a	
S10V000630		A	13968-55-3	Uranium-233		ug/g	n/a	<4.00E-06	1.15E-04	n/a	n/a	n/a	n/a	4.18E-05	n/a	J
S10V000630		A	13966-29-5	Uranium-234		ug/g	n/a	<2.00E-06	<2.09E-05	n/a	n/a	n/a	n/a	2.09E-05	n/a	U
S10V000630		A	15117-96-1	Uranium-235		ug/g	96.7	<4.40E-06	3.08E-03	n/a	n/a	n/a	n/a	4.18E-05	n/a	
S10V000630		A	13982-70-2	Uranium-236		ug/g	n/a	<1.60E-06	<1.67E-05	n/a	n/a	n/a	n/a	1.67E-05	n/a	U
S10V000630		A	13994-20-2	Neptunium-237		ug/g	103	<2.12E-05	<4.18E-04	n/a	n/a	n/a	n/a	4.18E-04	n/a	U
S10V000630		A	U-238	Uranium-238		ug/g	105	<2.20E-04	0.444	n/a	n/a	n/a	n/a	2.09E-03	n/a	
S10V000630		A	7440-22-4	Silver		ug/g	97.1	<8.00E-03	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000630		A	7440-38-2	Arsenic		ug/g	112	<0.0420	2.20	n/a	n/a	n/a	n/a	0.439	n/a	
S10V000630		A	7440-43-9	Cadmium		ug/g	98.1	<3.00E-03	0.0611	n/a	n/a	n/a	n/a	0.0313	n/a	
S10V000630		A	7439-92-1	Lead		ug/g	101	<0.0310	3.08	n/a	n/a	n/a	n/a	0.324	n/a	
S10V000630		A	7782-49-2	Selenium		ug/g	107	<0.0610	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000630		A	7440-28-0	Thallium	0.0634U	ug/g	92.9	2.23E-03	0.0634	n/a	n/a	n/a	n/a	6.27E-03	n/a	B
~~S10V000631~~		~~S~~	~~14798-03-9~~	~~Ammonium~~		~~ug/g~~	~~90.5~~	~~0.195~~	~~0.729~~	~~0.960~~	~~0.845~~	~~27.3~~	~~94.8~~	~~0.476~~	~~n/a~~	~~BJ~~
S10V000632		A	14133-76-7	Technetium-99		ug/g	104	<3.00E-05	<3.16E-04	n/a	n/a	n/a	n/a	3.16E-04	n/a	U
S10V000632		A	SN-117	Tin-117	J	ug/g	109	<1.10E-03	0.0134	n/a	n/a	n/a	n/a	0.0110	n/a	Jb
S10V000632		A	15832-50-5	Tin-126	UJ	ug/g	n/a	<2.00E-05	<2.00E-04	n/a	n/a	n/a	n/a	2.00E-04	n/a	Ub
~~S10V000633~~		~~E~~	~~CM-243/244~~	~~Curium-243/244~~		~~uCi/g~~	~~n/a~~	~~<2.15E-07~~	~~<1.99E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~1.99E-07~~	~~n/a~~	~~U~~

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000633		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.97E-07	n/a	n/a	n/a	n/a	4.97E-07	n/a	U
S10V000633		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U
S10V000633		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.27E-07	n/a	n/a	n/a	n/a	2.27E-07	n/a	U
S10V000633		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.27E-07	n/a	n/a	n/a	n/a	2.27E-07	n/a	U
S10V000634		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	1.17E-07	n/a	n/a	n/a	n/a	1.10E-07	145.945	J
S10V000635		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.34E-05	n/a	n/a	n/a	n/a	1.34E-05	n/a	U
S10V000635		E	15758-45-9	Selenium-79	uCi/g	n/a	<7.37E-07	<1.50E-06	n/a	n/a	n/a	n/a	1.50E-06	n/a	U
S10V001177		W	10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	4.65E-06	n/a	n/a	n/a	n/a	2.51E-06	81.595	J
S10V001213		A	7440-36-0	Antimony	ug/g	99.4	<0.0100	0.0968	n/a	n/a	n/a	n/a	9.55E-03	n/a	B
S10V001731		WV	14133-76-7	Technetium-99	ug/g	107	<4.00E-06	<3.85E-06	n/a	n/a	n/a	n/a	3.85E-06	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000404			%WATERA	%WATER-APD	%	n/a	n/a	3.890	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000404			57-12-5	Cyanide	ug/g	99.5	<0.0370	<2.85	<2.79	n/a	n/a	98.4	2.85	n/a	U
S10V000404			7439-97-6	Mercury	ug/g	102	<1.00E-04	0.0102	n/a	n/a	n/a	n/a	8.98E-03	n/a	J
S10V000404			PH	pH	unitless	n/a	n/a	9.33	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000404			18496-25-8	Sulfide	ug/g	106	<0.180	17.9	17.9	17.9	0.309	111	7.11	n/a	J
S10V000636			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.34E-05	n/a	n/a	n/a	n/a	5.20E-06	26.66	
S10V000636			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.34E-07	n/a	n/a	n/a	n/a	2.34E-07	n/a	U
S10V000636			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<6.86E-07	n/a	n/a	n/a	n/a	6.86E-07	n/a	U
S10V000636			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.33E-07	n/a	n/a	n/a	n/a	3.33E-07	n/a	U
S10V000636			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.13E-06	n/a	n/a	n/a	n/a	1.13E-06	n/a	U
S10V000636			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.19E-07	n/a	n/a	n/a	n/a	8.19E-07	n/a	U
S10V000636			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.31E-07	n/a	n/a	n/a	n/a	4.31E-07	n/a	U
S10V000636			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	1.02E-06	n/a	n/a	n/a	n/a	4.72E-07	26.19	c
S10V000636			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	9.34E-07	n/a	n/a	n/a	n/a	6.24E-07	34.89	J
S10V000636			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.10E-06	n/a	n/a	n/a	n/a	8.10E-06	n/a	U
S10V000636			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.66E-06	n/a	n/a	n/a	n/a	2.66E-06	n/a	U
S10V000636			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.72E-07	n/a	n/a	n/a	n/a	2.72E-07	n/a	U
S10V000637		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.4	<774	<77.3	n/a	n/a	n/a	n/a	77.3	n/a	U
S10V000637		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V000637		O	121-14-2	2,4-Dinitrotoluene	ug/kg	88.6	<381	<38.0	n/a	n/a	n/a	n/a	38.0	n/a	U
S10V000637		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S10V000637		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V000637		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S10V000637		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<53.6	n/a	n/a	n/a	n/a	53.6	n/a	U
S10V000637		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S10V000637		O	83-32-9	Acenaphthene	ug/kg	76.0	<176	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S10V000637		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V000637		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000638		W	12311-97-6	Formate	ug/g	99.5	<4.67E-03	0.293	0.376	0.335	24.6	98.3	0.0478	n/a	J
S10V000638		W	16887-00-6	Chloride	ug/g	101	<9.98E-03	0.327	0.339	0.333	3.61	99.0	0.102	n/a	J
S10V000638		W	14797-65-0	Nitrite	ug/g	103	<0.0192	1.79	1.66	1.73	7.73	98.9	0.197	n/a	J
S10V000638		W	14808-79-8	Sulfate	ug/g	102	<0.0187	3.59	3.01	3.30	17.5	100	0.192	n/a	
S10V000638		W	338-70-5	Oxalate	ug/g	100	<0.0231	0.709	0.536	0.623	27.7	99.0	0.237	n/a	J
S10V000638		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.594	<0.609	n/a	n/a	99.1	0.594	n/a	U
S10V000638		W	14797-55-8	Nitrate	ug/g	99.6	<0.0208	3.99	3.41	3.70	15.6	98.5	0.213	n/a	
S10V000638		W	14265-44-2	Phosphate	ug/g	100	<0.0167	1.13	0.949	1.04	17.6	98.9	0.171	n/a	J
S10V000639		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	5.25E+03	n/a	n/a	n/a	n/a	3.06	n/a	
S10V000639		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	51.1	n/a	n/a	n/a	n/a	0.306	n/a	
S10V000639		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.117	n/a	n/a	n/a	n/a	0.102	n/a	J
S10V000639		A	7440-69-9	Bismuth	ug/g	91.8	<0.100	<10.2	n/a	n/a	n/a	n/a	10.2	n/a	U
S10V000639		A	7440-70-2	Calcium	ug/g	91.3	0.586	7.02E+03	n/a	n/a	n/a	n/a	5.10	n/a	
S10V000639		A	7440-45-1	Cerium	ug/g	98.1	<0.0300	18.7	n/a	n/a	n/a	n/a	3.06	n/a	J
S10V000639		A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	5.45	n/a	n/a	n/a	n/a	1.02	n/a	J
S10V000639		A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	8.59	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	10.2	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7439-89-6	Iron	ug/g	93.8	0.0228	1.59E+04	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-09-7	Potassium	ug/g	102	<0.500	907	n/a	n/a	n/a	n/a	51.0	n/a	
S10V000639		A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	7.49	n/a	n/a	n/a	n/a	0.306	n/a	
S10V000639		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	6.50	n/a	n/a	n/a	n/a	0.306	n/a	
S10V000639		A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	3.68E+03	n/a	n/a	n/a	n/a	5.10	n/a	
S10V000639		A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	238	n/a	n/a	n/a	n/a	0.306	n/a	
S10V000639		A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	2.45	n/a	n/a	n/a	n/a	2.04	n/a	J
S10V000639		A	7440-23-5	Sodium J	ug/g	98.1	<0.100	228	n/a	n/a	n/a	n/a	10.2	n/a	b
S10V000639		A	7440-02-0	Nickel	ug/g	92.8	<0.0200	8.18	n/a	n/a	n/a	n/a	2.04	n/a	J
S10V000639		A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	643	n/a	n/a	n/a	n/a	5.10	n/a	
S10V000639		A	7704-34-9	Sulfur	ug/g	94.7	<0.100	40.7	n/a	n/a	n/a	n/a	10.2	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000639		A	7440-21-3	Silicon	J	ug/g	85.0	<0.0300	95.5	n/a	n/a	n/a	n/a	3.06	n/a	b
S10V000639		A	7440-24-6	Strontium		ug/g	96.3	<3.00E-03	25.9	n/a	n/a	n/a	n/a	0.306	n/a	
S10V000639		A	7440-32-6	Titanium		ug/g	93.9	<5.00E-03	890	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-62-2	Vanadium		ug/g	95.9	<5.00E-03	32.6	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-65-5	Yttrium		ug/g	91.7	<2.00E-03	7.38	n/a	n/a	n/a	n/a	0.204	n/a	
S10V000639		A	7440-66-6	Zinc		ug/g	92.7	9.32E-03	29.3	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-67-7	Zirconium	J	ug/g	92.8	<5.00E-03	3.07	n/a	n/a	n/a	n/a	0.510	n/a	BJb
S10V000639		A	14269-63-7	Thorium-230	UJ	ug/g	n/a	<2.80E-06	<2.86E-05	n/a	n/a	n/a	n/a	2.86E-05	n/a	U
S10V000639		A	TH-232	Thorium-232	J	ug/g	106	<6.80E-05	2.24	n/a	n/a	n/a	n/a	6.94E-04	n/a	b
S10V000639		A	13968-55-3	Uranium-233		ug/g	n/a	<4.00E-06	1.58E-04	n/a	n/a	n/a	n/a	4.08E-05	n/a	J
S10V000639		A	13966-29-5	Uranium-234		ug/g	n/a	<2.00E-06	<2.04E-05	n/a	n/a	n/a	n/a	2.04E-05	n/a	U
S10V000639		A	15117-96-1	Uranium-235		ug/g	96.7	<4.40E-06	2.70E-03	n/a	n/a	n/a	n/a	4.49E-05	n/a	
S10V000639		A	13982-70-2	Uranium-236		ug/g	n/a	<1.60E-06	<1.63E-05	n/a	n/a	n/a	n/a	1.63E-05	n/a	U
S10V000639		A	13994-20-2	Neptunium-237		ug/g	103	<2.12E-05	<2.16E-04	n/a	n/a	n/a	n/a	2.16E-04	n/a	U
S10V000639		A	U-238	Uranium-238		ug/g	105	<2.20E-04	0.399	n/a	n/a	n/a	n/a	2.25E-03	n/a	
S10V000639		A	7440-22-4	Silver		ug/g	97.1	<8.00E-03	<0.0816	n/a	n/a	n/a	n/a	0.0816	n/a	U
S10V000639		A	7440-38-2	Arsenic		ug/g	112	<0.0420	2.36	n/a	n/a	n/a	n/a	0.429	n/a	
S10V000639		A	7440-43-9	Cadmium		ug/g	98.1	<3.00E-03	0.0725	n/a	n/a	n/a	n/a	0.0306	n/a	
S10V000639		A	7439-92-1	Lead		ug/g	101	<0.0310	4.27	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000639		A	7782-49-2	Selenium		ug/g	107	<0.0610	1.35	n/a	n/a	n/a	n/a	0.623	n/a	J
S10V000639		A	7440-28-0	Thallium	0.0520U	ug/g	92.9	2.23E-03	0.0520	n/a	n/a	n/a	n/a	6.12E-03	n/a	BJ
~~S10V000640~~		~~S~~	~~14798-03-9~~	~~Ammonium~~		~~ug/g~~	~~91.4~~	~~<0.0120~~	~~1.07~~	~~1.27~~	~~1.17~~	~~16.8~~	~~94.4~~	~~0.478~~	~~n/a~~	~~J~~
S10V000641		A	14133-76-7	Technetium-99		ug/g	104	<3.00E-05	<3.07E-04	n/a	n/a	n/a	n/a	3.07E-04	n/a	U
S10V000641		A	SN-117	Tin-117	J	ug/g	109	<1.10E-03	0.0186	n/a	n/a	n/a	n/a	0.0106	n/a	Jb
S10V000641		A	15832-50-5	Tin-126	UJ	ug/g	n/a	<2.00E-05	<1.92E-04	n/a	n/a	n/a	n/a	1.92E-04	n/a	Ub
~~S10V000642~~		~~E~~	~~CM-243/244~~	~~Curium-243/244~~		~~uCi/g~~	~~n/a~~	~~<2.15E-07~~	~~<2.42E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.42E-07~~	~~n/a~~	~~U~~
S10V000642		E	14596-10-2	Americium-241		uCi/g	100	<5.39E-07	<6.05E-07	n/a	n/a	n/a	n/a	6.05E-07	n/a	U
~~S10V000642~~		~~E~~	~~15510-73-3~~	~~Curium-242~~		~~uCi/g~~	~~n/a~~	~~<2.15E-07~~	~~<2.42E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.42E-07~~	~~n/a~~	~~U~~

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000642~~		~~E~~	~~PU-239/240~~	~~Plutonium-239/240~~	~~uCi/g~~	~~94.1~~	~~<2.75E-07~~	~~<2.38E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.38E-07~~	~~n/a~~	~~U~~
S10V000642		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.38E-07	n/a	n/a	n/a	n/a	2.38E-07	n/a	U
S10V000643		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<2.90E-07	n/a	n/a	n/a	n/a	2.90E-07	n/a	U
S10V000644		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.65E-05	n/a	n/a	n/a	n/a	1.65E-05	n/a	U
S10V000644		E	15758-45-9	Selenium-79	uCi/g	n/a	<7.37E-07	<2.40E-06	n/a	n/a	n/a	n/a	2.40E-06	n/a	U
S10V001178		W	~~14762-75-5~~	Carbon-14	uCi/g	93.5	<1.73E-07	<3.17E-06	n/a	n/a	n/a	n/a	3.17E-06	n/a	U
~~S10V001178~~		~~W~~	~~10028-17-8~~	~~Tritium~~	~~uCi/g~~	~~94.2~~	~~<4.07E-06~~	~~<4.94E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~1.48E-06~~	~~n/a~~	~~U~~
S10V001220		A	7440-36-0	Antimony	ug/g	99.4	<0.0100	0.0800	n/a	n/a	n/a	n/a	9.65E-03	n/a	BJ
S10V001732		WV	14133-76-7	Technetium-99	ug/g	107	<4.00E-06	<3.82E-06	n/a	n/a	n/a	n/a	3.82E-06	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000406			%WATERA	%WATER-APD	%	n/a	n/a	3.930	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000406			57-12-5	Cyanide	ug/g	99.5	<0.0370	<2.62	n/a	n/a	n/a	n/a	2.62	n/a	U
S10V000406			7439-97-6	Mercury	ug/g	101	<1.00E-04	0.0171	n/a	n/a	n/a	n/a	8.94E-03	n/a	J
S10V000406			PH	pH	unitless	n/a	n/a	9.03	9.35	9.19	3.48	n/a	0.0100	n/a	
S10V000406			18496-25-8	Sulfide	ug/g	106	<0.180	17.0	n/a	n/a	n/a	n/a	7.18	n/a	J
S10V000654			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.01E-05	n/a	n/a	n/a	n/a	5.11E-06	33.70	J
S10V000654			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.57E-07	n/a	n/a	n/a	n/a	2.57E-07	n/a	U
S10V000654			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<6.93E-07	n/a	n/a	n/a	n/a	6.93E-07	n/a	U
S10V000654			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.29E-07	n/a	n/a	n/a	n/a	3.29E-07	n/a	U
S10V000654			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.21E-06	n/a	n/a	n/a	n/a	1.21E-06	n/a	U
S10V000654			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.36E-07	n/a	n/a	n/a	n/a	8.36E-07	n/a	U
S10V000654			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.46E-07	n/a	n/a	n/a	n/a	4.46E-07	n/a	U
S10V000654			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	7.46E-07	n/a	n/a	n/a	n/a	3.95E-07	20.84	c
S10V000654			14733-03-0	Bismuth-214	uCi/g	n/a	<6.45E-07	8.44E-07	n/a	n/a	n/a	n/a	5.08E-07	37.33	J
S10V000654			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.17E-06	n/a	n/a	n/a	n/a	8.17E-06	n/a	U
S10V000654			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.71E-06	n/a	n/a	n/a	n/a	2.71E-06	n/a	U
S10V000654			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.68E-07	n/a	n/a	n/a	n/a	2.68E-07	n/a	U
S10V000655		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.4	<774	<76.2	n/a	n/a	n/a	n/a	76.2	n/a	U
S10V000655		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<99.1	n/a	n/a	n/a	n/a	99.1	n/a	U
S10V000655		O	121-14-2	2,4-Dinitrotoluene	ug/kg	88.6	<381	<37.5	n/a	n/a	n/a	n/a	37.5	n/a	U
S10V000655		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<43.3	n/a	n/a	n/a	n/a	43.3	n/a	U
S10V000655		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S10V000655		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S10V000655		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<52.8	n/a	n/a	n/a	n/a	52.8	n/a	U
S10V000655		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S10V000655		O	83-32-9	Acenaphthene	ug/kg	76.0	<176	<17.3	n/a	n/a	n/a	n/a	17.3	n/a	U
S10V000655		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U
S10V000655		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000656		W	12311-97-6	Formate	ug/g	99.5	<4.67E-03	0.575	n/a	n/a	n/a	n/a	0.0474	n/a	J
S10V000656		W	16887-00-6	Chloride	ug/g	101	<9.98E-03	0.625	n/a	n/a	n/a	n/a	0.101	n/a	
S10V000656		W	14797-65-0	Nitrite	ug/g	103	<0.0192	1.25	n/a	n/a	n/a	n/a	0.195	n/a	J
S10V000656		W	14808-79-8	Sulfate	ug/g	102	<0.0187	4.34	n/a	n/a	n/a	n/a	0.190	n/a	
S10V000656		W	338-70-5	Oxalate	ug/g	100	<0.0231	0.880	n/a	n/a	n/a	n/a	0.234	n/a	J
S10V000656		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.588	n/a	n/a	n/a	n/a	0.588	n/a	U
S10V000656		W	14797-55-8	Nitrate	ug/g	99.6	<0.0208	3.69	n/a	n/a	n/a	n/a	0.211	n/a	
S10V000656		W	14265-44-2	Phosphate	ug/g	100	<0.0167	1.00	n/a	n/a	n/a	n/a	0.169	n/a	J
S10V000657		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	5.37E+03	n/a	n/a	n/a	n/a	3.23	n/a	
S10V000657		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	55.4	n/a	n/a	n/a	n/a	0.323	n/a	
S10V000657		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.111	n/a	n/a	n/a	n/a	0.108	n/a	J
S10V000657		A	7440-70-2	Calcium	ug/g	91.3	0.586	7.11E+03	n/a	n/a	n/a	n/a	5.38	n/a	
S10V000657		A	7440-45-1	Cerium	ug/g	98.1	<0.0300	14.0	n/a	n/a	n/a	n/a	3.23	n/a	J
S10V000657		A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	5.50	n/a	n/a	n/a	n/a	1.08	n/a	J
S10V000657		A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	8.36	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	9.66	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7439-89-6	Iron	ug/g	93.8	0.0228	1.60E+04	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-09-7	Potassium	ug/g	102	<0.500	929	n/a	n/a	n/a	n/a	53.8	n/a	
S10V000657		A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	6.89	n/a	n/a	n/a	n/a	0.323	n/a	
S10V000657		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	6.85	n/a	n/a	n/a	n/a	0.323	n/a	
S10V000657		A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	3.94E+03	n/a	n/a	n/a	n/a	5.38	n/a	
S10V000657		A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	259	n/a	n/a	n/a	n/a	0.323	n/a	
S10V000657		A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	2.26	n/a	n/a	n/a	n/a	2.15	n/a	J
S10V000657		A	7440-23-5	Sodium J	ug/g	98.1	<0.100	230	n/a	n/a	n/a	n/a	10.8	n/a	b
S10V000657		A	7440-02-0	Nickel	ug/g	92.8	<0.0200	7.70	n/a	n/a	n/a	n/a	2.15	n/a	J
S10V000657		A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	630	n/a	n/a	n/a	n/a	5.38	n/a	
S10V000657		A	7704-34-9	Sulfur	ug/g	94.7	<0.100	38.9	n/a	n/a	n/a	n/a	10.8	n/a	J
S10V000657		A	7440-21-3	Silicon J	ug/g	85.0	<0.0300	109	n/a	n/a	n/a	n/a	3.23	n/a	b

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000657		A	7440-24-6	Strontium		ug/g	96.3	<3.00E-03	26.9	n/a	n/a	n/a	n/a	0.323	n/a	
S10V000657		A	7440-32-6	Titanium		ug/g	93.9	<5.00E-03	984	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-62-2	Vanadium		ug/g	95.9	<5.00E-03	33.5	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-65-5	Yttrium		ug/g	91.7	<2.00E-03	7.27	n/a	n/a	n/a	n/a	0.215	n/a	
S10V000657		A	7440-66-6	Zinc		ug/g	92.7	9.32E-03	33.7	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-67-7	Zirconium	J	ug/g	92.8	<5.00E-03	8.33	n/a	n/a	n/a	n/a	0.538	n/a	Bb
S10V000657		A	14269-63-7	Thorium-230	UJ	ug/g	n/a	<2.80E-06	<3.01E-05	n/a	n/a	n/a	n/a	3.01E-05	n/a	U
S10V000657		A	TH-232	Thorium-232	J	ug/g	106	<6.80E-05	2.21	n/a	n/a	n/a	n/a	7.32E-04	n/a	b
S10V000657		A	13968-55-3	Uranium-233		ug/g	n/a	<4.00E-06	9.70E-05	n/a	n/a	n/a	n/a	4.30E-05	n/a	J
S10V000657		A	13966-29-5	Uranium-234		ug/g	n/a	<2.00E-06	2.67E-05	n/a	n/a	n/a	n/a	2.15E-05	n/a	J
S10V000657		A	15117-96-1	Uranium-235		ug/g	96.7	<4.40E-06	2.93E-03	n/a	n/a	n/a	n/a	4.73E-05	n/a	
S10V000657		A	13982-70-2	Uranium-236		ug/g	n/a	<1.60E-06	<1.72E-05	n/a	n/a	n/a	n/a	1.72E-05	n/a	U
S10V000657		A	13994-20-2	Neptunium-237		ug/g	103	<2.12E-05	<2.28E-04	n/a	n/a	n/a	n/a	2.28E-04	n/a	U
S10V000657		A	U-238	Uranium-238		ug/g	105	<2.20E-04	0.416	n/a	n/a	n/a	n/a	2.37E-03	n/a	
S10V000657		A	7440-22-4	Silver		ug/g	97.1	<8.00E-03	<0.0861	n/a	n/a	n/a	n/a	0.0861	n/a	U
S10V000657		A	7440-38-2	Arsenic		ug/g	112	<0.0420	2.59	n/a	n/a	n/a	n/a	0.452	n/a	
S10V000657		A	7440-43-9	Cadmium		ug/g	98.1	<3.00E-03	0.0546	n/a	n/a	n/a	n/a	0.0323	n/a	
S10V000657		A	7439-92-1	Lead		ug/g	101	<0.0310	3.52	n/a	n/a	n/a	n/a	0.334	n/a	
S10V000657		A	7782-49-2	Selenium		ug/g	107	<0.0610	<0.656	n/a	n/a	n/a	n/a	0.656	n/a	U
S10V000657		A	7440-28-0	Thallium	0.0608U	ug/g	92.9	2.23E-03	0.0608	n/a	n/a	n/a	n/a	6.46E-03	n/a	BJ
~~S10V000658~~		~~S~~	~~14798-03-9~~	~~Ammonium~~		~~ug/g~~	~~91.4~~	~~<0.0120~~	~~1.35~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.468~~	~~n/a~~	~~J~~
S10V000659		A	14133-76-7	Technetium-99		ug/g	104	<3.00E-05	<3.15E-04	n/a	n/a	n/a	n/a	3.15E-04	n/a	U
S10V000659		A	SN-117	Tin-117	J	ug/g	109	<1.10E-03	0.0132	n/a	n/a	n/a	n/a	0.0103	n/a	Jb
S10V000659		A	15832-50-5	Tin-126	J	ug/g	n/a	<2.00E-05	7.25E-04	n/a	n/a	n/a	n/a	1.88E-04	n/a	Jb
~~S10V000660~~		~~E~~	~~CM-243/244~~	~~Curium-243/244~~		~~uCi/g~~	~~n/a~~	~~<2.15E-07~~	~~<1.87E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~1.87E-07~~	~~n/a~~	~~U~~
S10V000660		E	14596-10-2	Americium-241		uCi/g	100	<5.39E-07	<4.67E-07	n/a	n/a	n/a	n/a	4.67E-07	n/a	U
S10V000660		E	15510-73-3	Curium-242		uCi/g	n/a	<2.15E-07	<1.87E-07	n/a	n/a	n/a	n/a	1.87E-07	n/a	U
~~S10V000660~~		~~E~~	~~PU-239/240~~	~~Plutonium-239/240~~		~~uCi/g~~	~~94.1~~	~~<2.75E-07~~	~~<2.59E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.59E-07~~	~~n/a~~	~~U~~

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
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b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000660		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.59E-07	n/a	n/a	n/a	n/a	2.59E-07	n/a	U
S10V000661		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<3.42E-07	n/a	n/a	n/a	n/a	3.42E-07	n/a	U
S10V000662		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<2.10E-05	n/a	n/a	n/a	n/a	2.10E-05	n/a	U
S10V000662		E	15758-45-9	Selenium-79	uCi/g	n/a	<7.37E-07	<1.06E-06	n/a	n/a	n/a	n/a	1.06E-06	n/a	U
S10V000821			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.13	n/a	n/a	n/a	n/a	n/a	n/a	
S10V001179		W	14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	4.69E-06	n/a	n/a	n/a	n/a	4.28E-06	56.856	J
S10V001179		W	10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	<3.85E-06	n/a	n/a	n/a	n/a	3.85E-06	n/a	U
S10V001215		A	7440-36-0	Antimony	ug/g	99.4	<0.0100	0.0741	n/a	n/a	n/a	n/a	9.66E-03	n/a	BJ
S10V001733		WV	14133-76-7	Technetium-99	ug/g	107	<4.00E-06	<3.90E-06	n/a	n/a	n/a	n/a	3.90E-06	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000407			%WATERA	%WATER-APD	%	n/a	n/a	7.240	7.650	7.445	5.507	n/a	0.01000	n/a	
S10V000407			57-12-5	Cyanide	ug/g	99.5	<0.0370	<2.58	n/a	n/a	n/a	n/a	2.58	n/a	U
S10V000407			7439-97-6	Mercury	ug/g	101	<1.00E-04	<8.00E-03	n/a	n/a	n/a	n/a	8.00E-03	n/a	U
S10V000407			PH	pH	unitless	n/a	n/a	9.19	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000407			18496-25-8	Sulfide	ug/g	106	<0.180	14.5	n/a	n/a	n/a	n/a	7.19	n/a	J
S10V000663			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.32E-05	n/a	n/a	n/a	n/a	7.51E-06	37.54	J
S10V000663			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.76E-07	n/a	n/a	n/a	n/a	3.76E-07	n/a	U
S10V000663			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<9.67E-07	n/a	n/a	n/a	n/a	9.67E-07	n/a	U
S10V000663			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<4.99E-07	n/a	n/a	n/a	n/a	4.99E-07	n/a	U
S10V000663			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.91E-06	n/a	n/a	n/a	n/a	1.91E-06	n/a	U
S10V000663			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<1.19E-06	n/a	n/a	n/a	n/a	1.19E-06	n/a	U
S10V000663			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<6.28E-07	n/a	n/a	n/a	n/a	6.28E-07	n/a	U
S10V000663			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	7.65E-07	n/a	n/a	n/a	n/a	7.12E-07	37.49	Jc
S10V000663			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	8.76E-07	n/a	n/a	n/a	n/a	8.69E-07	40.40	J
S10V000663			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<1.18E-05	n/a	n/a	n/a	n/a	1.18E-05	n/a	U
S10V000663			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<4.06E-06	n/a	n/a	n/a	n/a	4.06E-06	n/a	U
S10V000663			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.35E-07	n/a	n/a	n/a	n/a	2.35E-07	n/a	U
S10V000664		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.4	<774	<75.4	n/a	n/a	n/a	65.9	75.4	n/a	U
S10V000664		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<98.0	n/a	n/a	n/a	n/a	98.0	n/a	U
S10V000664		O	121-14-2	2,4-Dinitrotoluene	ug/kg	88.6	<381	<37.1	n/a	n/a	n/a	90.8	37.1	n/a	U
S10V000664		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<42.8	n/a	n/a	n/a	n/a	42.8	n/a	U
S10V000664		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<48.2	n/a	n/a	n/a	n/a	48.2	n/a	U
S10V000664		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<56.0	n/a	n/a	n/a	n/a	56.0	n/a	U
S10V000664		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S10V000664		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S10V000664		O	83-32-9	Acenaphthene	ug/kg	76.0	<176	<17.1	n/a	n/a	n/a	74.8	17.1	n/a	U
S10V000664		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U
S10V000664		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000665~~		~~W~~	~~12311-97-6~~	~~Formate~~		~~ug/g~~	~~99.5~~	~~<4.67E-03~~	~~0.803~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.0473~~	~~n/a~~	~~J~~
S10V000665		W	16887-00-6	Chloride		ug/g	101	<9.98E-03	0.964	n/a	n/a	n/a	n/a	0.101	n/a	
S10V000665		W	14797-65-0	Nitrite		ug/g	103	<0.0192	1.69	n/a	n/a	n/a	n/a	0.194	n/a	J
S10V000665		W	14808-79-8	Sulfate		ug/g	102	<0.0187	11.7	n/a	n/a	n/a	n/a	0.189	n/a	
S10V000665		W	338-70-5	Oxalate		ug/g	100	<0.0231	1.41	n/a	n/a	n/a	n/a	0.234	n/a	J
S10V000665		W	24959-67-9	Bromide		ug/g	101	<0.0580	<0.587	n/a	n/a	n/a	n/a	0.587	n/a	U
S10V000665		W	14797-55-8	Nitrate		ug/g	99.6	<0.0208	11.1	n/a	n/a	n/a	n/a	0.211	n/a	
~~S10V000665~~		~~W~~	~~14265-44-2~~	~~Phosphate~~		~~ug/g~~	~~100~~	~~<0.0167~~	~~1.45~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.169~~	~~n/a~~	~~J~~
S10V000666		A	7429-90-5	Aluminum		ug/g	92.4	<0.0300	8.53E+03	8.14E+03	8.34E+03	4.68	1.69E+03	2.99	n/a	
S10V000666		A	7440-39-3	Barium		ug/g	98.4	<3.00E-03	78.4	67.8	73.1	14.4	85.0	0.299	n/a	
S10V000666		A	7440-41-7	Beryllium		ug/g	90.8	<1.00E-03	0.173	0.176	0.175	2.01	108	0.0997	n/a	J
S10V000666		A	7440-70-2	Calcium		ug/g	91.7	0.141	8.19E+03	8.06E+03	8.12E+03	1.58	798	4.98	n/a	
S10V000666		A	7440-45-1	Cerium		ug/g	94.2	<0.0300	18.3	18.4	18.4	0.828	109	2.99	n/a	J
S10V000666		A	7440-48-4	Cobalt		ug/g	92.4	<0.0100	8.25	7.66	7.95	7.43	108	0.997	n/a	J
S10V000666		A	7440-47-3	Chromium		ug/g	91.7	<5.00E-03	17.7	16.5	17.1	6.86	109	0.498	n/a	
S10V000666		A	7440-50-8	Copper		ug/g	101	<5.00E-03	11.5	11.3	11.4	1.90	106	0.498	n/a	
S10V000666		A	7439-89-6	Iron		ug/g	93.3	9.59E-03	1.95E+04	1.92E+04	1.94E+04	1.68	1.07E+03	0.498	n/a	
S10V000666		A	7440-09-7	Potassium		ug/g	108	<0.500	1.25E+03	1.13E+03	1.19E+03	10.1	47.6	49.8	n/a	
S10V000666		A	7439-91-0	Lanthanum		ug/g	97.6	<3.00E-03	8.80	8.81	8.81	0.0733	104	0.299	n/a	
S10V000666		A	7439-93-2	Lithium		ug/g	111	<3.00E-03	9.53	8.96	9.24	6.13	101	0.299	n/a	
S10V000666		A	7439-95-4	Magnesium		ug/g	91.9	<0.0500	5.47E+03	4.60E+03	5.03E+03	17.3	-1.28E+03	4.98	n/a	
S10V000666		A	7439-96-5	Manganese		ug/g	91.2	<3.00E-03	353	305	329	14.6	58.4	0.299	n/a	
S10V000666		A	7439-98-7	Molybdenum		ug/g	94.3	<0.0200	<1.99	<2.00	n/a	n/a	104	1.99	n/a	U
S10V000666		A	7440-23-5	Sodium		ug/g	115	<0.100	287	259	273	10.0	267	9.97	n/a	
S10V000666		A	7440-02-0	Nickel	J	ug/g	91.8	<0.0200	20.2	12.0	16.1	50.7	93.8	1.99	n/a	c
S10V000666		A	7723-14-0	Phosphorus		ug/g	92.7	<0.0500	601	593	597	1.42	83.2	4.98	n/a	
S10V000666		A	7704-34-9	Sulfur		ug/g	92.9	<0.100	32.8	28.1	30.5	15.6	111	9.97	n/a	J
S10V000666		A	7440-21-3	Silicon	J-	ug/g	63.5	<0.0300	134	n/a	n/a	n/a	424	2.99	n/a	a

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000666		A	7440-24-6	Strontium		ug/g	97.1	<3.00E-03	46.1	35.9	41.0	24.9	84.9	0.299	n/a	
S10V000666		A	7440-32-6	Titanium		ug/g	93.0	<5.00E-03	1.19E+03	1.16E+03	1.18E+03	2.48	236	0.498	n/a	
S10V000666		A	7440-62-2	Vanadium		ug/g	94.6	<5.00E-03	45.7	44.8	45.3	1.97	116	0.498	n/a	
S10V000666		A	7440-65-5	Yttrium		ug/g	88.8	<2.00E-03	7.17	7.26	7.21	1.27	89.8	0.199	n/a	
S10V000666		A	7440-66-6	Zinc		ug/g	94.0	<5.00E-03	36.7	36.8	36.8	0.390	112	0.498	n/a	
S10V000666		A	7440-67-7	Zirconium	J	ug/g	92.1	<5.00E-03	10.8	10.7	10.7	1.20	28.4	0.498	n/a	b
S10V000666		A	14269-63-7	Thorium-230		ug/g	n/a	<2.80E-06	<3.38E-05	<3.24E-05	n/a	n/a	n/a	3.38E-05	n/a	U
S10V000666		A	TH-232	Thorium-232		ug/g	108	<6.80E-05	3.09	2.70	2.89	13.4	115	8.20E-04	n/a	
S10V000666		A	13968-55-3	Uranium-233		ug/g	n/a	<4.00E-06	9.81E-05	8.67E-05	9.24E-05	12.4	n/a	4.83E-05	n/a	J
S10V000666		A	13966-29-5	Uranium-234		ug/g	n/a	<2.00E-06	<2.41E-05	<2.31E-05	n/a	n/a	n/a	2.41E-05	n/a	U
S10V000666		A	15117-96-1	Uranium-235		ug/g	97.3	<4.40E-06	3.79E-03	3.23E-03	3.51E-03	16.0	98.5	5.31E-05	n/a	
S10V000666		A	13982-70-2	Uranium-236		ug/g	n/a	<1.60E-06	<1.93E-05	<1.85E-05	n/a	n/a	n/a	1.93E-05	n/a	U
S10V000666		A	13994-20-2	Neptunium-237		ug/g	106	<2.12E-05	<2.56E-04	<2.45E-04	n/a	n/a	103	2.56E-04	n/a	U
S10V000666		A	U-238	Uranium-238		ug/g	105	<2.20E-04	0.544	0.503	0.523	7.83	103	2.65E-03	n/a	
S10V000666		A	7440-22-4	Silver		ug/g	104	<1.60E-03	0.0582	0.0622	0.0602	6.66	99.8	0.0193	n/a	J
S10V000666		A	7440-43-9	Cadmium		ug/g	102	<6.00E-04	0.0672	0.0730	0.0701	8.27	101	7.24E-03	n/a	J
~~S10V000667~~		~~S~~	~~14798-03-9~~	~~Ammonium~~		~~ug/g~~	~~91.4~~	~~<0.0120~~	~~1.53~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.469~~	~~n/a~~	~~J~~
S10V000668		A	14133-76-7	Technetium-99		ug/g	99.1	<1.50E-04	<1.71E-03	<1.73E-03	n/a	n/a	101	1.71E-03	n/a	U
S10V000668		A	SN-117	Tin-117	UJ	ug/g	108	<5.50E-03	<0.0629	<0.0634	n/a	n/a	52.9	0.0629	n/a	Ub
S10V000668		A	15832-50-5	Tin-126	UJ	ug/g	n/a	<1.00E-04	<1.14E-03	<1.15E-03	n/a	n/a	n/a	1.14E-03	n/a	Ub
~~S10V000669~~		~~E~~	~~CM-243/244~~	~~Curium-243/244~~		~~uCi/g~~	~~n/a~~	~~<2.15E-07~~	~~<2.10E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.10E-07~~	~~n/a~~	~~U~~
S10V000669		E	14596-10-2	Americium-241		uCi/g	100	<5.39E-07	<5.26E-07	n/a	n/a	n/a	n/a	5.26E-07	n/a	U
S10V000669		E	15510-73-3	Curium-242		uCi/g	n/a	<2.15E-07	<2.10E-07	n/a	n/a	n/a	n/a	2.10E-07	n/a	U
S10V000669		E	PU-239/240	Plutonium-239/240		uCi/g	94.1	<2.75E-07	<2.52E-07	n/a	n/a	n/a	n/a	2.52E-07	n/a	U
S10V000669		E	13981-16-3	Plutonium-238		uCi/g	n/a	<2.75E-07	<2.52E-07	n/a	n/a	n/a	n/a	2.52E-07	n/a	U
S10V000670		E	SR-89/90	Strontium-89/90		uCi/g	96.2	<4.45E-07	<3.38E-07	n/a	n/a	n/a	n/a	3.38E-07	n/a	U
S10V000671		E	~~13981-37-8~~	Nickel-63		uCi/g	108	<2.44E-05	<1.43E-05	n/a	n/a	n/a	n/a	1.43E-05	n/a	U
~~S10V000671~~		~~E~~	~~15758-45-9~~	~~Selenium-79~~		~~uCi/g~~	~~n/a~~	~~<7.37E-07~~	~~<1.38E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~1.38E-06~~	~~n/a~~	~~U~~

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000824~~			~~BULKDENSI~~	~~Bulk Density~~	~~g/mL~~	~~n/a~~	~~n/a~~	~~2.20~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	
S10V001180	W	14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	<3.54E-06	n/a	n/a	n/a	n/a	3.54E-06	n/a	U
~~S10V001180~~	~~W~~	~~10028-17-8~~	~~Tritium~~	~~uCi/g~~	~~94.2~~	~~<4.07E-06~~	~~3.15E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.47E-06~~	~~115.972~~	~~J~~
S10V001216	A	7440-36-0	Antimony	ug/g	99.4	<0.0100	0.122	n/a	n/a	n/a	n/a	9.83E-03	n/a	B
S10V001734	WV	14133-76-7	Technetium-99	ug/g	107	<4.00E-06	<4.17E-06	n/a	n/a	n/a	n/a	4.17E-06	n/a	U
S10V003308	A	7440-38-2	Arsenic J-	ug/g	88.8	<8.40E-03	2.29	2.31	2.30	0.991	75.6	0.0837	n/a	
S10V003308	A	7440-43-9	Cadmium	ug/g	102	<1.80E-03	0.0685	0.0640	0.0662	6.90	108	0.0120	n/a	J
S10V003308	A	7439-92-1	Lead	ug/g	94.1	<3.00E-03	3.41	3.28	3.34	3.74	104	0.0299	n/a	
S10V003308	A	7782-49-2	Selenium	ug/g	108	<0.0270	<0.269	<0.270	n/a	n/a	116	0.269	n/a	U
S10V003308	A	7440-28-0	Thallium	ug/g	98.0	<4.00E-04	0.0816	0.0753	0.0785	8.03	101	7.98E-03	n/a	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000408			%WATERA	%WATER-APD	%	n/a	n/a	3.350	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000408			57-12-5	Cyanide	ug/g	88.8	<0.0370	<3.08	n/a	n/a	n/a	n/a	3.08	n/a	U
S10V000408			7439-97-6	Mercury	ug/g	103	<1.00E-04	<8.41E-03	n/a	n/a	n/a	98.8	8.41E-03	n/a	U
S10V000408			PH	pH	unitless	n/a	n/a	8.73	8.75	8.74	0.229	n/a	0.0100	n/a	
S10V000408			18496-25-8	Sulfide	ug/g	94.7	<0.180	7.21	7.91	7.56	9.16	101	7.17	n/a	J
S10V000672			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.10E-05	1.89E-05	1.50E-05	53.1	n/a	6.01E-06	36.08	J
S10V000672			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.98E-07	<3.78E-07	n/a	n/a	n/a	2.98E-07	n/a	U
S10V000672			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<8.02E-07	<9.81E-07	n/a	n/a	n/a	8.02E-07	n/a	U
S10V000672			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.54E-07	<5.08E-07	n/a	n/a	n/a	3.54E-07	n/a	U
S10V000672			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.27E-06	<1.98E-06	n/a	n/a	n/a	1.27E-06	n/a	U
S10V000672			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<9.56E-07	<1.27E-06	n/a	n/a	n/a	9.56E-07	n/a	U
S10V000672			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<5.03E-07	<6.62E-07	n/a	n/a	n/a	5.03E-07	n/a	U
S10V000672			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	7.72E-07	1.34E-06	1.06E-06	54.1	n/a	5.60E-07	23.60	c
S10V000672			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<9.20E-06	<1.25E-05	n/a	n/a	n/a	9.20E-06	n/a	U
S10V000672			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<3.16E-06	<4.38E-06	n/a	n/a	n/a	3.16E-06	n/a	U
S10V000672			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.56E-07	<2.16E-07	n/a	n/a	n/a	2.56E-07	n/a	U
S10V000673		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	63.8	<77.4	<77.0	n/a	n/a	n/a	66.7	77.0	n/a	U
S10V000673		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S10V000673		O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.3	<38.1	<37.9	n/a	n/a	n/a	80.7	37.9	n/a	U
S10V000673		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.8	n/a	n/a	n/a	n/a	43.8	n/a	U
S10V000673		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S10V000673		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S10V000673		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.4	n/a	n/a	n/a	n/a	53.4	n/a	U
S10V000673		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S10V000673		O	83-32-9	Acenaphthene	ug/kg	67.9	<17.6	<17.5	n/a	n/a	n/a	70.7	17.5	n/a	U
S10V000673		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S10V000673		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S10V000673		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000674~~		~~W~~	~~12311-97-6~~	~~Formate~~	~~ug/g~~	~~105~~	~~<4.67E-03~~	~~0.241~~	~~0.240~~	~~0.241~~	~~0.312~~	~~100~~	~~0.0477~~	~~n/a~~	~~J~~
S10V000674		W	16887-00-6	Chloride	ug/g	104	<9.98E-03	3.26	3.29	3.27	0.987	103	0.102	n/a	
S10V000674		W	14797-65-0	Nitrite	ug/g	105	<0.0192	1.04	1.03	1.03	1.28	98.4	0.196	n/a	J
S10V000674		W	14808-79-8	Sulfate	ug/g	106	<0.0187	113	114	114	0.843	104	0.191	n/a	
S10V000674		W	338-70-5	Oxalate	ug/g	104	<0.0231	<0.236	<0.236	n/a	n/a	102	0.236	n/a	U
S10V000674		W	24959-67-9	Bromide	ug/g	106	<0.0580	<0.593	<0.593	n/a	n/a	100	0.593	n/a	U
S10V000674		W	14797-55-8	Nitrate	ug/g	105	<0.0208	41.8	42.1	41.9	0.821	102	0.213	n/a	
~~S10V000674~~		~~W~~	~~14265-44-2~~	~~Phosphate~~	~~ug/g~~	~~104~~	~~<0.0167~~	~~0.281~~	~~0.290~~	~~0.285~~	~~3.16~~	~~101~~	~~0.171~~	~~n/a~~	~~J~~
S10V000675		A	7429-90-5	Aluminum	ug/g	92.4	<0.0300	7.17E+03	n/a	n/a	n/a	n/a	3.00	n/a	
S10V000675		A	7440-39-3	Barium	ug/g	98.4	<3.00E-03	64.5	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000675		A	7440-41-7	Beryllium	ug/g	90.8	<1.00E-03	0.149	n/a	n/a	n/a	n/a	0.0999	n/a	J
S10V000675		A	7440-70-2	Calcium	ug/g	91.7	0.141	8.83E+03	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000675		A	7440-45-1	Cerium	ug/g	94.2	<0.0300	20.9	n/a	n/a	n/a	n/a	3.00	n/a	J
S10V000675		A	7440-48-4	Cobalt	ug/g	92.4	<0.0100	5.65	n/a	n/a	n/a	n/a	0.999	n/a	J
S10V000675		A	7440-47-3	Chromium	ug/g	91.7	<5.00E-03	22.0	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-50-8	Copper	ug/g	101	<5.00E-03	9.18	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7439-89-6	Iron	ug/g	93.3	9.59E-03	1.75E+04	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-09-7	Potassium	ug/g	108	<0.500	1.13E+03	n/a	n/a	n/a	n/a	50.0	n/a	
S10V000675		A	7439-91-0	Lanthanum	ug/g	97.6	<3.00E-03	9.02	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000675		A	7439-93-2	Lithium	ug/g	111	<3.00E-03	9.27	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000675		A	7439-95-4	Magnesium	ug/g	91.9	<0.0500	4.71E+03	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000675		A	7439-96-5	Manganese	ug/g	91.2	<3.00E-03	291	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000675		A	7439-98-7	Molybdenum	ug/g	94.3	<0.0200	<2.00	n/a	n/a	n/a	n/a	2.00	n/a	U
S10V000675		A	7440-23-5	Sodium	ug/g	115	<0.100	204	n/a	n/a	n/a	n/a	9.99	n/a	
S10V000675		A	7440-02-0	Nickel J	ug/g	91.8	<0.0200	10.9	n/a	n/a	n/a	n/a	2.00	n/a	Jc
S10V000675		A	7723-14-0	Phosphorus	ug/g	92.7	<0.0500	452	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000675		A	7704-34-9	Sulfur	ug/g	92.9	<0.100	53.2	n/a	n/a	n/a	n/a	9.99	n/a	J
S10V000675		A	7440-21-3	Silicon J-	ug/g	63.5	<0.0300	93.9	n/a	n/a	n/a	n/a	3.00	n/a	a

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000675		A	7440-24-6	Strontium		ug/g	97.1	<3.00E-03	36.1	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000675		A	7440-32-6	Titanium		ug/g	93.0	<5.00E-03	862	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-62-2	Vanadium		ug/g	94.6	<5.00E-03	36.8	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-65-5	Yttrium		ug/g	88.8	<2.00E-03	5.04	n/a	n/a	n/a	n/a	0.200	n/a	
S10V000675		A	7440-66-6	Zinc		ug/g	94.0	<5.00E-03	33.8	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-67-7	Zirconium	J	ug/g	92.1	<5.00E-03	5.85	n/a	n/a	n/a	n/a	0.500	n/a	b
S10V000675		A	14269-63-7	Thorium-230		ug/g	n/a	<2.80E-06	<3.35E-05	n/a	n/a	n/a	n/a	3.35E-05	n/a	U
S10V000675		A	TH-232	Thorium-232		ug/g	108	<6.80E-05	3.60	n/a	n/a	n/a	n/a	8.13E-04	n/a	
S10V000675		A	13968-55-3	Uranium-233		ug/g	n/a	<4.00E-06	1.44E-04	n/a	n/a	n/a	n/a	4.78E-05	n/a	J
S10V000675		A	13966-29-5	Uranium-234		ug/g	n/a	<2.00E-06	<2.39E-05	n/a	n/a	n/a	n/a	2.39E-05	n/a	U
S10V000675		A	15117-96-1	Uranium-235		ug/g	97.3	<4.40E-06	4.03E-03	n/a	n/a	n/a	n/a	5.26E-05	n/a	
S10V000675		A	13982-70-2	Uranium-236		ug/g	n/a	<1.60E-06	<1.91E-05	n/a	n/a	n/a	n/a	1.91E-05	n/a	U
S10V000675		A	13994-20-2	Neptunium-237		ug/g	106	<2.12E-05	<2.53E-04	n/a	n/a	n/a	n/a	2.53E-04	n/a	U
S10V000675		A	U-238	Uranium-238		ug/g	105	<2.20E-04	0.565	n/a	n/a	n/a	n/a	2.63E-03	n/a	
S10V000675		A	7440-22-4	Silver		ug/g	104	<1.60E-03	0.0466	n/a	n/a	n/a	n/a	0.0191	n/a	J
S10V000675		A	7440-43-9	Cadmium		ug/g	102	<6.00E-04	0.0629	n/a	n/a	n/a	n/a	7.17E-03	n/a	J
~~S10V000676~~		~~S~~	~~14798-03-9~~	~~Ammonium~~		~~ug/g~~	~~99.9~~	~~<0.0120~~	~~1.05~~	~~0.883~~	~~0.968~~	~~17.6~~	~~103~~	~~0.477~~	~~n/a~~	~~J~~
S10V000677		A	14133-76-7	Technetium-99		ug/g	99.1	<1.50E-04	1.96E-03	n/a	n/a	n/a	n/a	1.79E-03	n/a	J
S10V000677		A	SN-117	Tin-117	UJ	ug/g	108	<5.50E-03	<0.0656	n/a	n/a	n/a	n/a	0.0656	n/a	Ub
S10V000677		A	15832-50-5	Tin-126	UJ	ug/g	n/a	<1.00E-04	<1.19E-03	n/a	n/a	n/a	n/a	1.19E-03	n/a	Ub
~~S10V000678~~		~~E~~	~~CM-243/244~~	~~Curium-243/244~~		~~uCi/g~~	~~n/a~~	~~<2.15E-07~~	~~<2.08E-07~~	~~<2.00E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.08E-07~~	~~n/a~~	~~U~~
S10V000678		E	14596-10-2	Americium-241		uCi/g	100	<5.39E-07	<5.19E-07	<5.00E-07	n/a	n/a	n/a	5.19E-07	n/a	U
S10V000678		E	15510-73-3	Curium-242		uCi/g	n/a	<2.15E-07	<2.08E-07	<2.00E-07	n/a	n/a	n/a	2.08E-07	n/a	U
S10V000678		E	PU-239/240	Plutonium-239/240		uCi/g	94.1	<2.75E-07	<2.14E-07	<2.16E-07	n/a	n/a	n/a	2.14E-07	n/a	U
S10V000678		E	13981-16-3	Plutonium-238		uCi/g	n/a	<2.75E-07	<2.14E-07	<2.16E-07	n/a	n/a	n/a	2.14E-07	n/a	U
S10V000679		E	SR-89/90	Strontium-89/90		uCi/g	96.2	<4.45E-07	<4.68E-07	<4.42E-07	n/a	n/a	n/a	4.68E-07	n/a	U
S10V000680		E	13981-37-8	Nickel-63		uCi/g	108	<2.44E-05	<1.39E-05	<1.92E-05	n/a	n/a	n/a	1.39E-05	n/a	U
S10V000680		E	15758-45-9	Selenium-79		uCi/g	n/a	<7.37E-07	<1.84E-06	<1.57E-06	n/a	n/a	n/a	1.84E-06	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000827~~			~~BULKDENSI~~	~~Bulk Density~~	~~g/mL~~	~~n/a~~	~~n/a~~	~~1.98~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	
S10V000828			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.03	n/a	n/a	n/a	n/a	n/a	n/a	
S10V000829			BULKDENSI	Bulk Density	g/mL	n/a	n/a	1.95	n/a	n/a	n/a	n/a	n/a	n/a	
S10V001181		W	14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	<2.55E-06	n/a	n/a	n/a	n/a	2.55E-06	n/a	U
~~S10V001181~~		~~W~~	~~10028-17-8~~	~~Tritium~~	~~uCi/g~~	~~94.2~~	~~<4.07E-06~~	~~3.30E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~1.49E-06~~	~~121.89~~	~~J~~
S10V001217		A	7440-36-0	Antimony	ug/g	99.4	<0.0100	0.169	n/a	n/a	n/a	n/a	9.64E-03	n/a	B
S10V001735		WV	14133-76-7	Technetium-99	ug/g	107	<4.00E-06	1.57E-04	n/a	n/a	n/a	n/a	3.79E-06	n/a	
S10V003309		A	7440-38-2	Arsenic	ug/g	88.8	<8.40E-03	2.90	n/a	n/a	n/a	n/a	0.0839	n/a	
S10V003309		A	7440-43-9	Cadmium	ug/g	102	<1.80E-03	0.0690	n/a	n/a	n/a	n/a	0.0120	n/a	J
S10V003309		A	7439-92-1	Lead	ug/g	94.1	<3.00E-03	13.8	n/a	n/a	n/a	n/a	0.0300	n/a	
S10V003309		A	7782-49-2	Selenium	ug/g	108	<0.0270	<0.270	n/a	n/a	n/a	n/a	0.270	n/a	U
S10V003309		A	7440-28-0	Thallium	ug/g	98.0	<4.00E-04	0.0788	n/a	n/a	n/a	n/a	7.99E-03	n/a	J

NA = Not Analyzed, ND = Not Detected

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U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR5
Sample Depth: 163-165

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000409			%WATERA	%WATER-APD	%	n/a	n/a	2.680	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000409			57-12-5	Cyanide	ug/g	88.8	<0.0370	<2.81	<2.68	n/a	n/a	75.8	2.81	n/a	U
S10V000409			7439-97-6	Mercury	ug/g	103	<1.00E-04	<8.96E-03	n/a	n/a	n/a	n/a	8.96E-03	n/a	U
S10V000409			PH	pH	unitless	n/a	n/a	8.65	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000409			18496-25-8	Sulfide	ug/g	81.2	<0.180	<7.13	<7.14	n/a	n/a	86.7	7.13	n/a	U
S10V000681			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.46E-05	n/a	n/a	n/a	n/a	5.16E-06	24.67	
S10V000681			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.43E-07	n/a	n/a	n/a	n/a	2.43E-07	n/a	U
S10V000681			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<6.46E-07	n/a	n/a	n/a	n/a	6.46E-07	n/a	U
S10V000681			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.06E-07	n/a	n/a	n/a	n/a	3.06E-07	n/a	U
S10V000681			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.18E-06	n/a	n/a	n/a	n/a	1.18E-06	n/a	U
S10V000681			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.51E-07	n/a	n/a	n/a	n/a	8.51E-07	n/a	U
S10V000681			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.27E-07	n/a	n/a	n/a	n/a	4.27E-07	n/a	U
S10V000681			14913-50-9	Thallium-208	uCi/g	n/a	<2.94E-07	4.38E-07	n/a	n/a	n/a	n/a	3.25E-07	47.84	J
S10V000681			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	6.31E-07	n/a	n/a	n/a	n/a	4.02E-07	23.76	c
S10V000681			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<7.88E-06	n/a	n/a	n/a	n/a	7.88E-06	n/a	U
S10V000681			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.63E-06	n/a	n/a	n/a	n/a	2.63E-06	n/a	U
S10V000681			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.75E-07	n/a	n/a	n/a	n/a	2.75E-07	n/a	U
S10V000683		W	16984-48-8	Fluoride	ug/g	106	<1.61E-03	0.780	n/a	n/a	n/a	n/a	0.0163	n/a	
S10V000683		W	666-14-8	Glycolate	ug/g	102	<9.37E-03	<0.0949	n/a	n/a	n/a	n/a	0.0949	n/a	U
S10V000683		W	71-50-1	Acetate	ug/g	102	<6.04E-03	0.327	n/a	n/a	n/a	n/a	0.0612	n/a	J
S10V000683		W	12311-97-6	Formate	ug/g	105	<4.67E-03	0.288	n/a	n/a	n/a	n/a	0.0473	n/a	J
S10V000683		W	16887-00-6	Chloride	ug/g	104	<9.98E-03	8.45	n/a	n/a	n/a	n/a	0.101	n/a	
S10V000683		W	14797-65-0	Nitrite	ug/g	105	<0.0192	0.982	n/a	n/a	n/a	n/a	0.195	n/a	J
S10V000683		W	14808-79-8	Sulfate	ug/g	106	<0.0187	66.5	n/a	n/a	n/a	n/a	0.189	n/a	
S10V000683		W	338-70-5	Oxalate	ug/g	104	<0.0231	0.812	n/a	n/a	n/a	n/a	0.234	n/a	J
S10V000683		W	24959-67-9	Bromide	ug/g	106	<0.0580	<0.588	n/a	n/a	n/a	n/a	0.588	n/a	U
S10V000683		W	14797-55-8	Nitrate	ug/g	105	<0.0208	6.68	n/a	n/a	n/a	n/a	0.211	n/a	
S10V000683		W	14265-44-2	Phosphate	ug/g	104	<0.0167	0.412	n/a	n/a	n/a	n/a	0.169	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR5
Sample Depth: 163-165

LS
5-12-2011

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000684	A	7429-90-5	Aluminum	ug/g	92.4	<0.0300	7.17E+03	n/a	n/a	n/a	n/a	2.99	n/a	
S10V000684	A	7440-39-3	Barium	ug/g	98.4	<3.00E-03	68.8	n/a	n/a	n/a	n/a	0.299	n/a	
S10V000684	A	7440-41-7	Beryllium	ug/g	90.8	<1.00E-03	0.135	n/a	n/a	n/a	n/a	0.0997	n/a	J
S10V000684	A	7440-70-2	Calcium	ug/g	91.7	0.141	7.13E+03	n/a	n/a	n/a	n/a	4.98	n/a	
S10V000684	A	7440-45-1	Cerium	ug/g	94.2	<0.0300	20.4	n/a	n/a	n/a	n/a	2.99	n/a	J
S10V000684	A	7440-48-4	Cobalt	ug/g	92.4	<0.0100	6.93	n/a	n/a	n/a	n/a	0.997	n/a	J
S10V000684	A	7440-47-3	Chromium	ug/g	91.7	<5.00E-03	23.5	n/a	n/a	n/a	n/a	0.498	n/a	
S10V000684	A	7440-50-8	Copper	ug/g	101	<5.00E-03	11.5	n/a	n/a	n/a	n/a	0.498	n/a	
S10V000684	A	7439-89-6	Iron	ug/g	93.3	9.59E-03	2.02E+04	n/a	n/a	n/a	n/a	0.498	n/a	
S10V000684	A	7440-09-7	Potassium	ug/g	108	<0.500	1.03E+03	n/a	n/a	n/a	n/a	49.8	n/a	
S10V000684	A	7439-91-0	Lanthanum	ug/g	97.6	<3.00E-03	9.34	n/a	n/a	n/a	n/a	0.299	n/a	
S10V000684	A	7439-93-2	Lithium	ug/g	111	<3.00E-03	8.38	n/a	n/a	n/a	n/a	0.299	n/a	
S10V000684	A	7439-95-4	Magnesium	ug/g	91.9	<0.0500	4.62E+03	n/a	n/a	n/a	n/a	4.98	n/a	
S10V000684	A	7439-96-5	Manganese	ug/g	91.2	<3.00E-03	282	n/a	n/a	n/a	n/a	0.299	n/a	
S10V000684	A	7439-98-7	Molybdenum	ug/g	94.3	<0.0200	<1.99	n/a	n/a	n/a	n/a	1.99	n/a	U
S10V000684	A	7440-23-5	Sodium	ug/g	115	<0.100	311	n/a	n/a	n/a	n/a	9.97	n/a	
S10V000684	A	7440-02-0	Nickel J	ug/g	91.8	<0.0200	14.7	n/a	n/a	n/a	n/a	1.99	n/a	Jc
S10V000684	A	7723-14-0	Phosphorus	ug/g	92.7	<0.0500	596	n/a	n/a	n/a	n/a	4.98	n/a	
S10V000684	A	7704-34-9	Sulfur	ug/g	92.9	<0.100	72.2	n/a	n/a	n/a	n/a	9.97	n/a	J
S10V000684	A	7440-21-3	Silicon J-	ug/g	63.5	<0.0300	83.9	n/a	n/a	n/a	n/a	2.99	n/a	a
S10V000684	A	7440-24-6	Strontium	ug/g	97.1	<3.00E-03	29.4	n/a	n/a	n/a	n/a	0.299	n/a	
S10V000684	A	7440-32-6	Titanium	ug/g	93.0	<5.00E-03	1.29E+03	n/a	n/a	n/a	n/a	0.498	n/a	
S10V000684	A	7440-62-2	Vanadium	ug/g	94.6	<5.00E-03	48.8	n/a	n/a	n/a	n/a	0.498	n/a	
S10V000684	A	7440-65-5	Yttrium	ug/g	88.8	<2.00E-03	7.01	n/a	n/a	n/a	n/a	0.199	n/a	
S10V000684	A	7440-66-6	Zinc	ug/g	94.0	<5.00E-03	35.5	n/a	n/a	n/a	n/a	0.498	n/a	
S10V000684	A	7440-67-7	Zirconium J	ug/g	92.1	<5.00E-03	9.81	n/a	n/a	n/a	n/a	0.498	n/a	b
S10V000684	A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<2.88E-05	n/a	n/a	n/a	n/a	2.88E-05	n/a	U
S10V000684	A	TH-232	Thorium-232	ug/g	108	<6.80E-05	3.15	n/a	n/a	n/a	n/a	7.01E-04	n/a	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR5
Sample Depth: 163-165

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte		Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000684		A	13968-55-3	Uranium-233		ug/g	n/a	<4.00E-06	7.66E-05	n/a	n/a	n/a	n/a	4.12E-05	n/a	J
S10V000684		A	13966-29-5	Uranium-234		ug/g	n/a	<2.00E-06	3.29E-05	n/a	n/a	n/a	n/a	2.06E-05	n/a	J
S10V000684		A	15117-96-1	Uranium-235		ug/g	97.3	<4.40E-06	3.98E-03	n/a	n/a	n/a	n/a	4.53E-05	n/a	
S10V000684		A	13982-70-2	Uranium-236		ug/g	n/a	<1.60E-06	<1.65E-05	n/a	n/a	n/a	n/a	1.65E-05	n/a	U
S10V000684		A	13994-20-2	Neptunium-237		ug/g	106	<2.12E-05	<2.18E-04	n/a	n/a	n/a	n/a	2.18E-04	n/a	U
S10V000684		A	U-238	Uranium-238		ug/g	105	<2.20E-04	0.555	n/a	n/a	n/a	n/a	2.27E-03	n/a	
S10V000684		A	7440-22-4	Silver		ug/g	104	<1.60E-03	0.0624	n/a	n/a	n/a	n/a	0.0165	n/a	J
S10V000684		A	7440-43-9	Cadmium		ug/g	102	<6.00E-04	0.0640	n/a	n/a	n/a	n/a	6.18E-03	n/a	
~~S10V000685~~		~~S~~	~~14798-03-9~~	~~Ammonium~~		~~ug/g~~	~~97.1~~	~~<0.0120~~	~~1.13~~	~~0.955~~	~~1.04~~	~~17.1~~	~~99.3~~	~~0.473~~	~~n/a~~	~~J~~
S10V000686		A	14133-76-7	Technetium-99		ug/g	99.1	<1.50E-04	1.76E-03	n/a	n/a	n/a	n/a	1.71E-03	n/a	J
S10V000686		A	SN-117	Tin-117	UJ	ug/g	108	<5.50E-03	<0.0628	n/a	n/a	n/a	n/a	0.0628	n/a	Ub
S10V000686		A	15832-50-5	Tin-126	UJ	ug/g	n/a	<1.00E-04	<1.14E-03	n/a	n/a	n/a	n/a	1.14E-03	n/a	Ub
~~S10V000687~~		~~E~~	~~CM-243/244~~	~~Curium-243/244~~		~~uCi/g~~	~~n/a~~	~~<2.15E-07~~	~~<1.98E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~1.98E-07~~	~~n/a~~	~~U~~
S10V000687		E	14596-10-2	Americium-241		uCi/g	100	<5.39E-07	<4.94E-07	n/a	n/a	n/a	n/a	4.94E-07	n/a	U
S10V000687		E	15510-73-3	Curium-242		uCi/g	n/a	<2.15E-07	<1.98E-07	n/a	n/a	n/a	n/a	1.98E-07	n/a	U
S10V000687		E	PU-239/240	Plutonium-239/240		uCi/g	94.1	<2.75E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U
S10V000687		E	13981-16-3	Plutonium-238		uCi/g	n/a	<2.75E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U
S10V000688		E	SR-89/90	Strontium-89/90		uCi/g	96.2	<4.45E-07	<4.92E-07	n/a	n/a	n/a	n/a	4.92E-07	n/a	U
S10V000689		E	13981-37-8	Nickel-63		uCi/g	108	<2.44E-05	<1.40E-05	n/a	n/a	n/a	n/a	1.40E-05	n/a	U
S10V000689		E	15758-45-9	Selenium-79		uCi/g	n/a	<7.37E-07	<1.14E-06	n/a	n/a	n/a	n/a	1.14E-06	n/a	U
S10V000831			BULKDENSI	Bulk Density		g/mL	n/a	n/a	2.31	n/a	n/a	n/a	n/a	n/a	n/a	
S10V001182		W	14762-75-5	Carbon-14		uCi/g	93.5	<1.73E-07	<2.57E-06	n/a	n/a	n/a	n/a	2.57E-06	n/a	U
~~S10V001182~~		~~W~~	~~10028-17-8~~	~~Tritium~~		~~uCi/g~~	~~94.2~~	~~<4.07E-06~~	~~4.37E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.50E-06~~	~~85.179~~	~~J~~
S10V001218		A	7440-36-0	Antimony		ug/g	99.4	<0.0100	0.159	n/a	n/a	n/a	n/a	9.74E-03	n/a	B
S10V001736		WV	14133-76-7	Technetium-99		ug/g	107	<4.00E-06	<3.78E-06	n/a	n/a	n/a	n/a	3.78E-06	n/a	U
S10V003310		A	7440-38-2	Arsenic		ug/g	88.8	<8.40E-03	2.80	n/a	n/a	n/a	n/a	0.0840	n/a	
S10V003310		A	7440-43-9	Cadmium		ug/g	102	<1.80E-03	0.0682	n/a	n/a	n/a	n/a	0.0120	n/a	J
S10V003310		A	7439-92-1	Lead		ug/g	94.1	<3.00E-03	5.41	n/a	n/a	n/a	n/a	0.0300	n/a	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR5
Sample Depth: 163-165

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V003310		A	7782-49-2	Selenium	ug/g	108	<0.0270	<0.270	n/a	n/a	n/a	n/a	0.270	n/a	U
S10V003310		A	7440-28-0	Thallium	ug/g	98.0	<4.00E-04	0.0659	n/a	n/a	n/a	n/a	8.00E-03	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000410			%WATERA	%WATER-APD	%	n/a	n/a	4.720	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000410			57-12-5	Cyanide	ug/g	88.8	<0.0370	<2.80	n/a	n/a	n/a	n/a	2.80	n/a	U
S10V000410			7439-97-6	Mercury	ug/g	103	<1.00E-04	0.0681	n/a	n/a	n/a	n/a	8.38E-03	n/a	J
S10V000410			PH	pH	unitless	n/a	n/a	8.67	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000410			18496-25-8	Sulfide	ug/g	81.2	<0.180	<7.21	n/a	n/a	n/a	n/a	7.21	n/a	U
S10V000690			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.26E-05	n/a	n/a	n/a	n/a	5.54E-06	29.69	
S10V000690			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.74E-07	n/a	n/a	n/a	n/a	2.74E-07	n/a	U
S10V000690			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<7.47E-07	n/a	n/a	n/a	n/a	7.47E-07	n/a	U
S10V000690			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.42E-07	n/a	n/a	n/a	n/a	3.42E-07	n/a	U
S10V000690			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.40E-06	n/a	n/a	n/a	n/a	1.40E-06	n/a	U
S10V000690			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.96E-07	n/a	n/a	n/a	n/a	8.96E-07	n/a	U
S10V000690			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.70E-07	n/a	n/a	n/a	n/a	4.70E-07	n/a	U
S10V000690			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	4.82E-07	n/a	n/a	n/a	n/a	4.80E-07	42.70	Jc
S10V000690			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.71E-06	n/a	n/a	n/a	n/a	8.71E-06	n/a	U
S10V000690			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.86E-06	n/a	n/a	n/a	n/a	2.86E-06	n/a	U
S10V000690			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.24E-07	n/a	n/a	n/a	n/a	2.24E-07	n/a	U
S10V000691		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	76.2	<77.4	<75.0	n/a	n/a	n/a	79.3	75.0	n/a	U
S10V000691		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<97.5	n/a	n/a	n/a	n/a	97.5	n/a	U
S10V000691		O	121-14-2	2,4-Dinitrotoluene	ug/kg	102	<38.1	<36.9	n/a	n/a	n/a	106	36.9	n/a	U
S10V000691		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<42.6	n/a	n/a	n/a	n/a	42.6	n/a	U
S10V000691		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S10V000691		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<55.7	n/a	n/a	n/a	n/a	55.7	n/a	U
S10V000691		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S10V000691		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S10V000691		O	83-32-9	Acenaphthene	ug/kg	83.7	<17.6	<17.0	n/a	n/a	n/a	94.3	17.0	n/a	U
S10V000691		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S10V000691		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U
S10V000691		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.9	n/a	n/a	n/a	n/a	39.9	n/a	U

NA = Not Analyzed, ND = Not Detected

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000692~~		~~W~~	~~12311-97-6~~	~~Formate~~	~~ug/g~~	~~105~~	~~<4.67E-03~~	~~7.06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.0474~~	~~n/a~~	
S10V000692		W	16887-00-6	Chloride	ug/g	104	<9.98E-03	6.43	n/a	n/a	n/a	n/a	0.101	n/a	
S10V000692		W	14797-65-0	Nitrite	ug/g	105	<0.0192	2.47	n/a	n/a	n/a	n/a	0.195	n/a	
S10V000692		W	14808-79-8	Sulfate	ug/g	106	<0.0187	116	n/a	n/a	n/a	n/a	0.190	n/a	
S10V000692		W	338-70-5	Oxalate	ug/g	104	<0.0231	14.3	n/a	n/a	n/a	n/a	0.234	n/a	
S10V000692		W	24959-67-9	Bromide	ug/g	106	<0.0580	<0.589	n/a	n/a	n/a	n/a	0.589	n/a	U
S10V000692		W	14797-55-8	Nitrate	ug/g	105	<0.0208	12.1	n/a	n/a	n/a	n/a	0.211	n/a	
~~S10V000692~~		~~W~~	~~14265-44-2~~	~~Phosphate~~	~~ug/g~~	~~104~~	~~<0.0167~~	~~1.21~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.169~~	~~n/a~~	~~J~~
S10V000693		A	7429-90-5	Aluminum	ug/g	92.4	<0.0300	8.44E+03	n/a	n/a	n/a	n/a	3.00	n/a	
S10V000693		A	7440-39-3	Barium	ug/g	98.4	<3.00E-03	66.3	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000693		A	7440-41-7	Beryllium	ug/g	90.8	<1.00E-03	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S10V000693		A	7440-70-2	Calcium	ug/g	91.7	0.141	6.57E+03	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000693		A	7440-45-1	Cerium	ug/g	94.2	<0.0300	18.4	n/a	n/a	n/a	n/a	3.00	n/a	J
S10V000693		A	7440-48-4	Cobalt	ug/g	92.4	<0.0100	8.84	n/a	n/a	n/a	n/a	1.00	n/a	J
S10V000693		A	7440-47-3	Chromium	ug/g	91.7	<5.00E-03	32.2	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-50-8	Copper	ug/g	101	<5.00E-03	27.1	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7439-89-6	Iron	ug/g	93.3	9.59E-03	2.33E+04	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-09-7	Potassium	ug/g	108	<0.500	958	n/a	n/a	n/a	n/a	50.0	n/a	
S10V000693		A	7439-91-0	Lanthanum	ug/g	97.6	<3.00E-03	9.07	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000693		A	7439-93-2	Lithium	ug/g	111	<3.00E-03	8.70	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000693		A	7439-95-4	Magnesium	ug/g	91.9	<0.0500	4.56E+03	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000693		A	7439-96-5	Manganese	ug/g	91.2	<3.00E-03	320	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000693		A	7439-98-7	Molybdenum	ug/g	94.3	<0.0200	5.12	n/a	n/a	n/a	n/a	2.00	n/a	J
S10V000693		A	7440-23-5	Sodium	ug/g	115	<0.100	580	n/a	n/a	n/a	n/a	10.0	n/a	
S10V000693		A	7440-02-0	Nickel J	ug/g	91.8	<0.0200	12.9	n/a	n/a	n/a	n/a	2.00	n/a	Jc
S10V000693		A	7723-14-0	Phosphorus	ug/g	92.7	<0.0500	613	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000693		A	7704-34-9	Sulfur	ug/g	92.9	<0.100	82.9	n/a	n/a	n/a	n/a	10.0	n/a	J
S10V000693		A	7440-21-3	Silicon J-	ug/g	63.5	<0.0300	90.6	n/a	n/a	n/a	n/a	3.00	n/a	a

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000693		A	7440-24-6	Strontium	ug/g	97.1	<3.00E-03	30.3	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000693		A	7440-32-6	Titanium	ug/g	93.0	<5.00E-03	1.52E+03	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-62-2	Vanadium	ug/g	94.6	<5.00E-03	60.0	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-65-5	Yttrium	ug/g	88.8	<2.00E-03	7.29	n/a	n/a	n/a	n/a	0.200	n/a	
S10V000693		A	7440-66-6	Zinc	ug/g	94.0	<5.00E-03	52.7	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-67-7	Zirconium J	ug/g	92.1	<5.00E-03	10.2	n/a	n/a	n/a	n/a	0.500	n/a	b
S10V000693		A	14269-63-7	Thorium-230 3.19E-05U	ug/g	n/a	<2.80E-06	3.19E-05	n/a	n/a	n/a	n/a	2.99E-05	n/a	BJ
S10V000693		A	TH-232	Thorium-232	ug/g	108	<6.80E-05	2.63	n/a	n/a	n/a	n/a	7.26E-04	n/a	
S10V000693		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	5.14E-05	n/a	n/a	n/a	n/a	4.27E-05	n/a	J
S10V000693		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	2.77E-05	n/a	n/a	n/a	n/a	2.13E-05	n/a	J
S10V000693		A	15117-96-1	Uranium-235	ug/g	97.3	<4.40E-06	3.35E-03	n/a	n/a	n/a	n/a	4.69E-05	n/a	
S10V000693		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.71E-05	n/a	n/a	n/a	n/a	1.71E-05	n/a	U
S10V000693		A	13994-20-2	Neptunium-237	ug/g	106	<2.12E-05	<2.26E-04	n/a	n/a	n/a	n/a	2.26E-04	n/a	U
S10V000693		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.446	n/a	n/a	n/a	n/a	2.35E-03	n/a	
S10V000693		A	7440-22-4	Silver	ug/g	104	<1.60E-03	0.0337	n/a	n/a	n/a	n/a	8.54E-03	n/a	J
S10V000693		A	7440-43-9	Cadmium	ug/g	102	<6.00E-04	0.0377	n/a	n/a	n/a	n/a	3.20E-03	n/a	
~~S10V000694~~		~~S~~	~~14798-03-9~~	~~Ammonium~~	~~ug/g~~	~~97.1~~	~~<0.0120~~	~~4.24~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.471~~	~~n/a~~	~~J~~
S10V000695		A	14133-76-7	Technetium-99	ug/g	99.1	<1.50E-04	1.66E-03	n/a	n/a	n/a	n/a	1.60E-03	n/a	J
S10V000695		A	SN-117	Tin-117 UJ	ug/g	108	<5.50E-03	<0.0587	n/a	n/a	n/a	n/a	0.0587	n/a	Ub
S10V000695		A	15832-50-5	Tin-126 UJ	ug/g	n/a	<1.00E-04	<1.07E-03	n/a	n/a	n/a	n/a	1.07E-03	n/a	Ub
~~S10V000696~~		~~E~~	~~CM-243/244~~	~~Curium-243/244~~	~~uCi/g~~	~~n/a~~	~~<2.15E-07~~	~~<2.00E-07~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~2.00E-07~~	~~n/a~~	~~U~~
S10V000696		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.99E-07	n/a	n/a	n/a	n/a	4.99E-07	n/a	U
S10V000696		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<2.00E-07	n/a	n/a	n/a	n/a	2.00E-07	n/a	U
S10V000696		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.29E-07	n/a	n/a	n/a	n/a	2.29E-07	n/a	U
S10V000696		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.29E-07	n/a	n/a	n/a	n/a	2.29E-07	n/a	U
S10V000697		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<6.40E-07	n/a	n/a	n/a	n/a	6.40E-07	n/a	U
S10V000698		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.23E-05	n/a	n/a	n/a	n/a	1.23E-05	n/a	U
~~S10V000698~~		~~E~~	~~15758-45-9~~	~~Selenium-79~~	~~uCi/g~~	~~n/a~~	~~<7.37E-07~~	~~<1.57E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~1.57E-06~~	~~n/a~~	~~U~~

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a - LCS Outside Range
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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V001183~~		~~W~~	~~14762-75-5~~	~~Carbon-14~~	~~uCi/g~~	~~93.5~~	~~<1.73E-07~~	~~<2.89E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~92.8~~	~~2.89E-06~~	~~n/a~~	~~U~~
~~S10V001183~~		~~W~~	~~10028-17-8~~	~~Tritium~~	~~uCi/g~~	~~94.2~~	~~<4.07E-06~~	~~<4.06E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~4.06E-06~~	~~n/a~~	~~U~~
S10V001221		A	7440-36-0	Antimony	ug/g	99.4	<0.0100	0.247	n/a	n/a	n/a	n/a	9.39E-03	n/a	
S10V001737		WV	14133-76-7	Technetium-99	ug/g	107	<4.00E-06	<3.87E-06	n/a	n/a	n/a	n/a	3.87E-06	n/a	U
S10V003311		A	7440-38-2	Arsenic	ug/g	88.8	<8.40E-03	2.59	n/a	n/a	n/a	n/a	0.0831	n/a	
S10V003311		A	7440-43-9	Cadmium	ug/g	102	<1.80E-03	0.0946	n/a	n/a	n/a	n/a	0.0119	n/a	J
S10V003311		A	7439-92-1	Lead	ug/g	94.1	<3.00E-03	3.75	n/a	n/a	n/a	n/a	0.0297	n/a	
S10V003311		A	7782-49-2	Selenium	ug/g	108	<0.0270	<0.267	n/a	n/a	n/a	n/a	0.267	n/a	U
S10V003311		A	7440-28-0	Thallium	ug/g	98.0	<4.00E-04	0.0578	n/a	n/a	n/a	n/a	7.91E-03	n/a	J

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Appendix 4

Laboratory Narrative and Chain-of-Custody Documentation

222-S LABORATORY

FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7670 IN SUPPORT OF RCRA SOIL CHARACTERIZATION

1.0 INTRODUCTION

This final report presents the results for the samples taken from Waste Management Area C between April 15, 2010 and May 11, 2010. The samples were analyzed in accordance with RPP-PLAN-40564, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C* (FSAP); RPP-PLAN-38777, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C* (SAP); ATL-MP-1011, *ATL Quality Assurance Project Plan for 222-S Laboratory* (QAPP); SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*; and the additional guidance given by the client's point of contact.

Because the 222-S Laboratory facility was designed to analyze hazardous and complex tank waste samples, most SW-846 test methods performed at the 222-S Laboratory contain deviations that are listed in an appendix in the analytical procedures. All other known deviations or variances from SW-846 are documented in this narrative. The following attachments are included in this report.

Attachment 1	Data Summary Report
Attachment 2	Sample Breakdown Diagrams
Attachment 3	Holding Time Report
Attachment 4	Additional Organic Analyses QC Results
Attachment 5	Tentatively Identified Compounds (TIC) for Organic Analyses
Attachment 6	Geological Report
Attachment 7	Characterization Change Notices (CCN) and Correspondence
Attachment 8	Receipt Paperwork

2.0 SAMPLE RECEIPT AND BREAKDOWN

2.1 SAMPLE RECEIPT

A total of nine core intervals and two surface grab samples from core hole C7670 along with eight field blanks and eight trip blanks were received by the 222-S Laboratory between April 15, 2010 and May 11, 2010. The samples were delivered in a cooler with ice or, in the case of the volatile organic samples, in a freezer. The temperatures of the temperature blanks were measured and recorded on the sample receipt check list and/or the chain of custody form.

2.2 SAMPLE BREAKDOWN

The laboratory received each core interval as a set of volatile organic analysis (VOA) samples and three liner samples when complete core recovery was obtained. The VOA samples were made from the shoe section of each core interval following SW-846 5035. The liner samples from each core interval were extruded, described, and composited by the Washington River Protection Solutions, Inc. (WRPS) geologist. The geologist's report is included in Attachment 6. Provided sufficient samples existed, the composite for each core interval was analyzed as described in the SAP and FSAP. Five core intervals (I002, I003, I004, I008, and I009) had less than full recovery (see Attachment 2 and Attachment 8). Interval I004 was extruded and composited in the normal manner. Interval I002 was combined with I003 to form a single composite. Interval I003 was taken immediately below I002 (see Attachment 7, CCN-WMAC-005). Interval I008 was combined with I009 to form a single composite. Interval I009 was taken immediately below I008 (see Attachment 7, CCN-WMAC-006). The surface samples were received as a single grab in a 500-mL jar and a set of VOA samples.

WRPS shipped subsamples of the composites to Test America Laboratories, Inc. (TAL) in St Louis, Missouri and Knoxville, Tennessee to be analyzed for dibutyl and monobutyl phosphate, total petroleum hydrocarbons (diesel and gasoline range), ethylene glycol, chlorinated pesticides, and polychlorinated biphenyls (Aroclors and congeners). TAL subsequently subcontracted the monobutyl and dibutyl phosphate analyses to Southwest Research Institute. The results of these analyses will be released in the final WRPS report.

3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results for those analytes requested in the SAP and FSAP. Secondary analytes are only reported if detected. The TIC from gas chromatography-mass spectrometry (GC/MS) analysis of semivolatile organic compounds (SVOC) is presented in Attachment 5. In addition to the required isotopes, all isotopes with positive gamma energy analysis (GEA) results were reported.

The "Det Limit" column in Attachment 1 contains the method detection limit (MDL) for non-radionuclide analyses, or the minimum detectable activity for radionuclides.

In Attachment 1, the column labeled "A#" indicates the aliquot class or the method used for sample preparation before analysis. For solid samples, the aliquot classes are defined as follows:

"A" indicates samples that were prepared by SW-846 3050B.

"E" indicates samples that were prepared by a strong acid digest.

"O" indicates samples that were extracted for organic analysis.

"S" indicates samples that were prepared by a distillation.

"W" indicates samples that were prepared by a standard water digest.

"WV" indicates samples that were prepared by a "Vadose" water digest.

Samples without a letter identifier in the "A#" column were analyzed directly with no separate preparation or with sample preparation performed as a part of the procedure steps.

The "Qual Flags" column in Attachment 1 contains data qualifier flags that are defined as follows:

> "B" is used to indicate that the analyte was detected in the method or preparation blank and in the sample, and the result for the blank was greater than 5% of the reported sample result.
>
> "J" indicates that the reported result should be considered an estimate because it is below the quantitation limit. The "J" flag is applied to sample concentrations that are greater than the MDL but less than the quantitation limit or sample activity with a counting uncertainty greater than 30%.
>
> "N" indicates a TIC which has been named.
>
> "T" indicates a TIC.
>
> "U" indicates that the reported result is less than the calculated detection limit.
>
> "a" indicates that the laboratory control sample (LCS) was outside of the specified range in the QAPP or SAP.
>
> "b" indicates that the matrix spike (MS) was outside of the specified range in the QAPP or SAP.
>
> "c" indicates that the relative percent difference (RPD) between the sample and the duplicate is greater than 30%.

Manual calculations using rounded results from the Data Summary Report (Attachment 1) or result calculation forms may differ slightly from the actual results derived from the raw data.

3.1 SAMPLE DIGESTIONS

3.1.1 Radiochemistry Strong Acid Digestion

Strong acid digestions with a hot plate for the heat source were performed using a mixture of concentrated nitric and hydrochloric acids. For each digest, approximately 1 to 10 g of sample was digested depending on the analysis being performed. The digestate was then filtered and diluted to a final volume. This digestion was used for all radiochemical analyses except ^{3}H, ^{14}C, and ^{129}I. This digestion is a leach of the acid soluble species only.

3.1.2 SW-846 3050B - Acid Digestion-Heating Block

This acid digestion follows SW-846 3050B using a heating block and nitric and hydrochloric acids. An aliquot of 0.25 g or 5 g of sample was digested. All heating-block digestions were filtered and diluted to a final volume of 50 mL. In soil, this digestion is a leach of the acid soluble species only. This digestion was used for all inductively coupled plasma/mass spectrometry (ICP/MS) and inductively coupled plasma/atomic emission spectroscopy (ICP/AES) analyses except for ^{99}Tc and isotopic tin (^{117}Sn and ^{126}Sn) analyses. The digestion is

modified for the ^{99}Tc analysis by using only nitric acid. This is done to eliminate the possibility of the formation a zinc-chlorine ion pair of mass 99. The laboratory believes this ion, when present, is responsible for low level false positives. A separate digestion for antimony was prepared using additional hydrochloric acid, as recommended in SW-846.

3.1.3 Water Digestion

A water digestion or leach was prepared for the anions by ion chromatography, ^{14}C, and ^{3}H analyses using approximately 0.25 to 4 g of sample diluted to 25 mL. Sonification was used, and the leachate was then filtered. In soil, this digestion is a leach of the water soluble species only.

3.1.4 Vadose Water Digestion

A 70-g sample of soil was leached using a ratio of one part water to one part soil. To maintain a one-to-one ratio, the amount of water added to the sample was adjusted based on the percent moisture of the soil. The slurries were placed on a shaker table for about 1 hour. They were then transferred to a centrifuge tube and centrifuged at 4,000 rpm for 30 minutes. An unfiltered aliquot was set aside for alkalinity analysis. The remainder was filtered using a disposable vacuum filtration system. The filtrates were transferred to a clean bottle and then analyzed for anions using IC nitrate analysis (intervals I005 to I010) and ^{99}Tc by ICP/MS analysis.

3.2 INORGANIC ANALYSES

3.2.1 Cyanide

The cyanide analysis by distillation and spectrophotometry was performed on direct subsamples of the grab samples and liner composite samples. All analyses met the SW-846 holding time of 14 days. There was no required reporting limit in the SAP for cyanide. The target detection limit was 0.5 µg/g, which is at least an order of magnitude lower than the current laboratory method (lachet micro-distillation) can reach.

Batches 19042 and 19150: There were no notable quality control (QC) issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19456: The low level standard (LLS) was recovered outside the ±25% requirement at 65%. Since the results were well below the MDL, there was no affect on data quality. Eleven samples were analyzed between the initial calibration blank and the next calibration verification standard (CCV). This did not meet the requirement in the QAPP; however, since there was no affect on the results, the data was accepted. Reanalysis would have exceeded the holding time for some samples in the batch.

3.2.2 Sulfide

Sulfide analysis by distillation and ion selective electrode was performed on direct subsamples of the grab samples and liner composite samples. All analyses met the SW-846 holding time of 7 days. There was no required reporting limit in the SAP for sulfide. The target detection limit was 5 µg/g. All sample results had adjusted MDLs of approximately 7 µg/g. There were no

notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.3 pH Analysis

The pH analysis was performed on the grab samples and liner composite samples. These analyses met all QC requirements in the FSAP, SAP, and QAPP. The FSAP lists a pH holding time requirement of "as soon as possible." All pH measurements were taken immediately after the water leach was performed, but the sampling to analysis date varied from 2 to 14 days (see Attachment 3). There is no correlation between pH results and days to analysis, and the results fall within an expected range for alkaline soils. This indicates that the variation in time has no apparent effect on the results. The lapse time of up to 6 days for the analysis was due to the time taken between sampling and extrusion/compositing of the liners; most samples fall in to this range. Three samples were analyzed between day 11 and day 14. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.4 Mercury

Analysis for mercury by cold-vapor graphic furnace/atomic absorption was performed on digested subsamples of the grab samples and liner composite samples. All results met the QC requirements in the FSAP, SAP, and QAPP. All analyses met the holding time of 28 days. This analysis met the required and target detection limits.

3.2.5 Ion Chromatography – Ammonium

Analysis for ammonium was performed using a distillation preparation of the grab samples and liner composite samples. The SAP lists an administrative holding time of 7 days. The laboratory believes that after distillation and preservation, the holding time is 28 days, based on U.S. Environmental Protection Agency drinking water and waste water holding times for preserved samples. There is no regulatory holding time limit promulgated for ammonium in soil. All samples met the SAP holding times. These analyses met the target detection limit listed in the SAP. There was no required reporting limit in the SAP or FSAP for ammonium.

Batches 19076, 19246, and 19420: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19029: Ammonium was detected in the preparation blanks at a level below the quantitation limit and above the MDL. Ammonium was also detected in the samples at a similar level; these results have been flagged with a "B". Since all results were below the quantitation limit, reanalysis was not required.

3.2.6 Ion Chromatography – Anions and Small Organic Acids

Ion chromatography analysis was performed on a standard water digest of subsamples from all grab samples and soil composite samples. The laboratory met all of the required and target detection limits. All analyses were within the applicable holding time. The sample spikes used for the standard water digestions are predigestion spikes. Due to the large aliquot size (approximately 70 g) used in the Vadose water digestion, the spikes were post-digestion.

Batches 19058, 19147, and 19446: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 22897: The preparation blank contained nitrite below the quantitation limit, but at greater than 5% of the sample results. All sample results have been flagged with a "B". Since the sample and blank results were below the quantitation level, reanalysis was not required. The RPD for acetate exceeded the ±30% requirement in the SAP and FSAP; however, since the sample result was below the quantitation limit, this criterion does not apply.

3.2.7 Inductively Coupled Plasma/Atomic Emission Spectroscopy

The ICP/AES analysis was performed on an acid-digest (SW-846 3050B) of all grab samples and liner composite samples. The ICP/AES analysis was unable to obtain the required detection limit for antimony, arsenic, cadmium, selenium, silver, and thallium. These elements have been reported from separate ICP/MS analyses. Lead is also reported for some samples. Total uranium has not been reported by the ICP/AES analysis since it cannot meet the required detection limits in the SAP. The isotopic uranium analysis by ICP/MS met the required detection limit for ^{238}U, which is essentially total uranium and can be used in place of ICP/AES total uranium. This does not affect the overall data usability. For all other metals reported by ICP/AES, all target and required detection limits were met. All analysis were within the SW-846 six month holding time.

Batch 19876: The ICSAB had results above the quantitation limits for neodymium and palladium. This indicates that spectral interference was occurring. Neodymium and palladium results were not reported due to the high probability that they were the result of interferences. Results slightly above the MDL for lead, manganese, and tungsten in the ICSA indicate a possible high bias for these elements. However, the recoveries of these elements in the ISCAB were within the ±20% requirement; this would indicate no significant bias. Low levels of iron, zinc, and calcium were detected in the preparation blank, but reanalysis was not required since these levels were less than 5% of the lowest sample result. The MS recoveries for aluminum, calcium, iron, magnesium, and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the sample results for these elements exceeded the matrix spike level by more than four times, this criterion does not apply. The MS recoveries for sodium, silicon, and zirconium exceeded the ±25% requirement. All sample results in this batch for sodium, silicon, and zirconium have been flagged with "b". The exact cause for these failures is not known, but it should be noted that this digestion is not one that should be used to report silicon from siliceous material. It should be noted that silicon is not listed with other elements in SW-846 3050B, section 1.1, under "Scope and Application" for the method. Since none of these were primary analytes, reanalysis was not required. The mid-run continuing calibration blank (CCB) demonstrated a zirconium result slightly above the MDL and below the quantitation level. The blank result was more that 5% of the sample results, and a "B" flag was applied. Since the blank result was below the quantitation limit, reanalysis was not required.

Batch 20066: The MS recovery for potassium exceeded the ±25% requirement in the FSAP and SAP. Since the sample result exceeded the matrix spike level by more than four times, this criterion does not apply.

Batch 20874: The ICSAB had a result above the quantitation limits for neodymium. This indicates that spectral interference was occurring. Neodymium results were not reported due to the high probability that they were the result of this interference. Results slightly above the MDL for cadmium and manganese in the ICSA indicate a possible high bias for these elements. However, the recoveries of cadmium and manganese in the ISCAB were within the ±20% requirement; this indicates no significant bias was present. Low levels of iron and calcium were detected in the preparation blank, but reanalysis was not required since these levels were less than 5% of the lowest sample result. The MS recoveries for aluminum, calcium, iron, magnesium, manganese, potassium, and sodium silicon and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the sample results for these elements exceeded the matrix spike level by more than four times, this criterion does not apply. The RPD for nickel exceeded the ±30% requirement at 51%. All sample results in this batch for nickel have been flagged with "c". The laboratory believes this exceedance may have also been caused by sample inhomogeneity. Additionally, silicon experienced LCS failures and reanalysis was not required for this secondary element. It should be noted that silicon is not listed with other elements in SW-846 3050B, section 1.1, under "Scope and Application" for the method.

3.2.8 Inductively Coupled Plasma/Mass Spectroscopy

The ICP/MS actinide and trace metal analyses were performed on the standard SW-846 3050 acid digestion of all grab samples and liner composite samples. The ICP/MS ^{126}Sn and ^{99}Tc analysis was performed on the sample digest without the addition of the hydrochloric acid. Hydrochloric acid is not used for ^{99}Tc analysis because of the potential formation of a ZnCl ion pair with mass 99. ICP/MS trace metal analysis for antimony was perform on the same digest with additional hydrochloric acid, which is required to keep antimony in solution. In addition to these acid digestions, ICP/MS ^{99}Tc analysis was performed on a vadose water digest.

Direct is the most accurate type of calibration; however, standard material is not commercially available for all the isotopes of interest. Concentrations of those isotopes without available standards are estimated based on the instrument's mass-response curve, which is generated by using the intensity/concentration relationship for the available isotope standards. Results estimated in this manner are designated "semi-quantitative."

Table 1. Inductively Coupled Plasma-Mass Spectroscopy Standards and Spikes

Standard Type	Analytes Analyzed
Initial calibration verification (nondigested)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Acid digest standard (laboratory control standard)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Predigest spike (MS)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Post-digest spike	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
No standard or spike of either type	^{126}Sn, ^{230}Th, ^{233}U, ^{234}U, ^{236}U

3.2.8.1 Technetium-99 and Tin-126

The required detection limit listed in the SAP for ^{99}Tc was met. The target detection limit for ^{99}Tc was not met. There were no required or target detection limits for ^{126}Sn listed in the SAP. The SAP lists a holding time of 6 months for isotopic analytes. All samples were analyzed within the holding time.

Because there is no available source for ^{126}Sn, ^{117}Sn is used to monitor the chemical recovery for this analysis. Though not specifically requested in the SAP, ^{117}Sn is reported for the LCS and MS in order to demonstrate method accuracy and presence of possible matrix interference.

Batch 19814: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 20169: The matrix spike recovered ^{117}Sn outside the ±25% required in the QAPP and SAP at 59%. These samples were initially analyzed in batch 19814 with a similar results. This would indicate that there is a matrix interference for tin when spiked at these levels. All sample results in the batch have been flagged with a “b”.

Batch 20677: The matrix spike recovered ^{117}Sn outside the ±25% required in the QAPP and SAP at 59%. Since the post-digestion spike passed and the previous batch (20169) was reanalyze without improvement of the MS recovery, matrix interference was inferred and reanalysis was not performed. If tin is spiked at a level similar to the one used for the ICPAES analysis, the recoveries are generally within the required ±25%. However, this not appropriate for ^{126}Sn analysis. Results for this analysis should be considered biased low, but the laboratory believes that even sample levels of 10 µg/Kg should be easily detected. All sample results in the batch have been flagged with a “b”.

3.2.8.2 Technetium-99 (Vadose Water Digest)

The required and target detection limits listed in the SAP for ^{99}Tc were met. The SAP lists a holding time of 6 months for isotopic analytes. All holding times were met. A predigestion matrix is not prepared as part of this procedure. This is partially due to the large size of the aliquot—approximately 70 g. All other standard QC requirements were meet for this batch.

3.2.8.3 Actinides

The required and target detection limits were met for all isotopes and in all samples. The SAP lists the holding time for isotopic analytes as 6 months. All samples were analyzed within the holding time.

Batch 19661: The ending LLS for ^{232}Th exceeded the ±30% requirement at 134%. This could indicate a high bias for ^{232}Th results near the LLS level. However, the lowest sample result for ^{232}Th was approximately 100 times the LLS level and the data quality was not affected. The low level MS for ^{232}Th failed at 62%. It is the laboratory’s opinion that this failure is due to inhomogeneity (RPD of 18%) and the ^{232}Th result in the sample being nearly four times the spike amount. If the duplicate result is used to calculate the MS recovery, it is within the ±25% requirement. A higher level spike was also analyzed; it passed at 100%. This was discussed with

the client, and the laboratory was instructed to report the low level MS (see details discussed in Attachment 7).

Batch 20266: Th-230 was detected in the preparation blank at the MDL. However, this was more than 5% of one sample in the batch, which had a result slightly above the MDL. This sample was flagged with a "B". The ending LLS for ^{235}U exceeded the ±30% requirement at 53%. This could indicate a low bias for ^{235}U results near the LLS level. However, the lowest sample result for ^{235}U was approximately 25 times the LLS level and the data quality was not affected.

Batch 23864: Th-230 was detected in the preparation blank just above the MDL. However, this was more than 5% of the sample, which had a result above the MDL, but below the quantitation limit. This sample was flagged with a "B".

3.2.8.4 Trace Metals

Antimony, arsenic, cadmium, selenium, silver, and thallium were analyzed by ICP/MS to obtain the required detection limits in the SAP. Lead was also reported in four samples. Except for the required detection limit for selenium, all required and target detection limits were met or the sample results were above the quantitation limit, and the sample detection limit criteria do not apply. The required detection limit for selenium was approximately an order of magnitude below the detection limit obtained by using ICP/MS. The laboratory does not anticipate reaching this detection limit for future projects. The reporting limit for selenium ranged from 0.3 µg/g to 0.6 µg/g depending on the matrix interference encountered during the analysis. SW-846 lists the holding time of metals as 6 months. All samples were analyzed within the holding time except for sample B23KP9 (S10V003308), which was reanalyzed for arsenic one day into the 7th month. The laboratory does not believe the result was affected.

Batch 20363 and 23807: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19915: Two of the LLSs for selenium exceeded the ±30% requirement at 64% and 67%. This could indicate a low bias for selenium results near the LLS level. However, since the selenium signal was well below the MDL, the data quality was not affected.

Batch 20171: Thallium was detected in the preparation blank below the quantitation limit. The blank result was approximately 30% of the sample results, and a "B" flag was applied. Since the blank result was below the quantitation limit and the all sample results were below the required detection limit, reanalysis was not required.

Batch 20590: The first CCB had a result for antimony slightly above the MDL. All affected samples have been flagged with a "B". Since the blank result was below the quantitation limit, reanalysis was not required. The duplicate RPD for antimony was outside the ±30% requirement in the SAP and FSAP at 37%. The laboratory believes this was a result of sample inhomogeneity. Additionally, the sample result was well below the required detection limit. With customer agreement (see Attachment 7), all results were flagged with "c" and reported.

Batch 23628: The closing LLSs for selenium exceeded the ±30% requirement at 152%. This could indicate a high bias for selenium results near the LLS level. However, since the selenium signal was well below the MDL, the data quality was not affected.

3.3 RADIOCHEMICAL ANALYSIS

The holding time listed in the SAP for radioactive isotopes is 6 months. The FSAP list the holding time as "none." SW-846 does not address holding times for radiochemical analytes. All radiochemical analyses met the 6-month holding time listed in the SAP. With the exception of the ^{14}C and ^{3}H analyses, tracers and spikes are added prior to the digestion. The laboratory is investigating the possibility of performing predigestion spikes for the ^{3}H and ^{14}C analyses.

3.3.1 Gamma Energy Analysis

GEA was performed directly on approximately 60 mL of soil from all grab samples and liner composite samples. The SAP requires the reporting of all isotopes with positive results above the minimum detectable activity (MDA); therefore, isotopes in addition to those required in the SAP were report when detected. The GEA analysis met all of the required detection limits in the SAP. The laboratory was unable to meet any of the target detection limits.

Batch 19658: The RPD for ^{212}Pb and ^{40}K exceeded the ±30% requirement in the SAP and FSAP. Since relative error for ^{40}K exceeded 30%, the result is considered to be below the quantification limit and this criterion does not apply. The ^{212}Pb result was above the quantification level, and a "c" has been applied to the results. However, since ^{212}Pb is not a required analyte, reanalysis was not required.

3.3.2 Strontium-89/90

Strontium-89/90 analysis was performed on a strong acid digest of all grab samples and liner composite samples. All of the sample analyses met the required and target detection limits. The FSAP and SAP requested ^{90}Sr, not $^{89/90}Sr$, be reported. The 222-S Laboratory only performs the latter analysis. Since the half-life for ^{89}Sr is approximately 51 days and ^{89}Sr has not been produced at Hanford for years, $^{89/90}Sr$ is essentially ^{90}Sr. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.3 Tritium

The ^{3}H analysis by liquid scintillation counting (LSC) was performed on a water leach of all grab samples and liner composite samples. This method only measured the ^{3}H in the samples that could be dissolved in water. This analysis achieved the required and target detection limits in the FSAP. There were no notable issues with the ^{3}H batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.4 Selenium-79

The ^{79}Se analysis by LSC was performed on a strong acid digest of all grab samples and liner composite samples. The analysis achieved the target detection limit in the FSAP. No required

detection limit was listed. No standard is currently available for ^{79}Se. A cold carrier is used to monitor recovery and is measured gravimetrically. The ^{14}C LSC curve is used to determine the ^{79}Se results since their energies are similar.

Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%. There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.5 Carbon-14

The ^{14}C analysis by LSC was performed on a water leach of all grab samples and liner composite samples. The analysis achieved the required detection limit in the FSAP but exceeded the target detection limit. This analysis will only detect water soluble forms of ^{14}C. There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.6 Nickel-63

The ^{63}Ni analysis by LSC was performed on a strong acid digest of all grab samples and liner composite samples. The analysis achieved the required and target detection limits in the FSAP. There were no notable issues with these ^{63}Ni batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%.

3.3.7 Iodine-129

Analysis for ^{129}I by low energy GEA was performed on an iodine-specific fusion digest of all grab samples and liner composite samples. The required detection limit in the SAP was met. Four samples slightly exceeded the 2 pCi/g required detection limit with detection limits between 2.5 and 2.7 pCi/g. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.8 Americium-241, Curium-243/244, and Curium-242

Analysis for ^{241}Am, $^{243/244}$Cm, and ^{242}Cm by alpha energy analysis (AEA) was performed on a strong acid digest of all grab samples and liner composite samples. For this analysis, there were no notable issues and all QC requirements in the FSAP, SAP, and the QAPP were met. The required and target detection limits in the SAP were met. The SAP and FSAP requested ^{243}Cm and ^{244}Cm be reported separately. Since it is not possible to resolve these individual isotopes when using AEA, these isotopes have been report as $^{243/244}$Cm.

3.3.9 Plutonium-238 and Plutonium-239/240

Plutonium isotopic (^{238}Pu and $^{239/240}$Pu) analysis by AEA was performed on a strong acid digest of all grab samples and liner composite samples. For this analysis, there were no notable issues with any batches and all QC requirements in the FSAP, SAP, and the QAPP were met. The required and target detection limits in the SAP were met.

3.4 ORGANIC ANALYSES

3.4.1 Volatile Organic Analysis

The VOA by GC/MS was performed on all field samples by purge and trap. Field sampling methods, sample containers, and preservation methods followed SW-846 5035. The soil samples were delivered in a freezer, in pre-weighed VOA vials with magnetic stir bars and approximately 5 g of sample. After receipt, the VOA samples were stored in a freezer. For each sample interval, an additional high level sample preserved in methanol was also received. These were not used because none of the results for the frozen samples were above the calibration range. The exact weight of the sample and the tare weight of the VOA vials were recorded by sampling personnel and delivered with the samples. Eight field blanks and eight trip blanks were also received and analyzed. The samples were preserved with either HCl or H_2SO_4 to a pH < 2. All samples met the required holding times except for samples B23KN6 (S10V000368) and B23KN9 (S10V000369), which were placed in a refrigerator instead of a freezer. This reduces the holding time to 48 hours (see Attachment 3). Due to this taking place over a weekend, the sample storage error was not detected for approximately 90 hours. The samples were then properly stored and later analyzed.

The VOA analysis met the target and required detection limits in the SAP. The SAP and FSAP requested m-xylene and p-xylene be reported separately. Since it is not possible to resolve these individual compounds when performing VOA by SW-846 8260B, these compounds have been report as m+p xylene. The SAP and FSAP request that methanol be reported with this analysis; however, this compound is too polar to be purged and cannot be reported (see Attachment 7).

All field and trip blanks contained chloroform above the estimated quantification level. Since chloroform is a common chlorination byproduct, the laboratory believes the source of chloroform was the water used by sampling personnel to make the various blanks.

The laboratory method blanks generally contained a very low level of toluene, which was also present in the samples at a similar level. The blank contamination was usually just above the MDL and always below the quantitation limit. This contamination was 4 to 5 orders of magnitude below the required detection limit and 17 to 90 times less than the target detection limit. For these reasons, reanalysis was not necessary. “B” flags have been applied when appropriate. For analyses performed after these, toluene was only occasionally found in the blank. The laboratory is not sure of the source of the toluene, but it may be related to construction or maintenance activities.

All laboratory blanks for the liquid sample batches contained acetone at a level slightly below the quantitation level, based the low calibration. Some blanks were 30 to 50 times the MDL. Fortunately, the samples contained only a trace of acetone; most results were below the MDL and all were below the quantitation level. “B” flags have been applied when appropriate. For this reason, reanalysis was not required. The laboratory believes that this relatively high level of acetone in the method blanks was due to contamination in the hydrochloric acid used in the blanks. For analyses performed after these, acetone was only occasionally found in the blank and generally at a level below the quantitation level.

LCS, MS, and matrix spike duplicate (MSD) recoveries were compared against the laboratory's statistical process control (SPC) limits, as required by SW-846. The use of SPC limits is allowed in the FSAP, SAP, and QAPP.

Batch 18960: The method blank contained toluene as discussed above.

Batch 19080: The method blank contained acetone and toluene as discussed above.

Batch 19081: The method blank contained acetone and toluene as discussed above. The MS and MSD sample vials failed to purge, and no MS/MSD pair is contained in this batch. Since additional MS/MSD pairs exist for the field QC samples for this core hole, client requirements have been meet (see Attachment 7).

Batch 19123: The MS was recovered above the statistically determined limits for acetone, hexone, and 2-butanone. All sample result for hexone and 2-butanone were below the MDL, and the data usability was not affected. One sample had a result above the quantitation limit. This result should be considered biased high. Reanalysis was not performed due to the holding time. All results for these compounds have been flagged with a "b". The method blank contained toluene as discussed above.

Batch 19447: The LCS recovery for acetone was above the upper limit of 139% at 152%. Due to the holding time limitation, reanalysis was not performed. Since the result for acetone was below the quantitation limit and flagged with a "J", the data usability was not affected and reanalysis was unnecessary. The result has been flagged with an "a". The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 26%, which indicates a high bias for these compounds. Since the acetone result was below the quantitation level and the trans-1,2-dichloroethene was non-detect, the CCV was acceptable. The method blank contained acetone and toluene as discussed above.

Batch 19485: The LCS recovery for acetone was above the upper limit of 139% at 160%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were either below the MDL or below the quantitation limit and flagged with a "J", the data usability was not affected and reanalysis was unnecessary. The result has been flagged with an "a". The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 24% and 31%, respectively, which indicates a high bias for these compounds. Since the acetone results were below the MDL or below quantitation level and the trans-1,2-dichloroethene was non-detect, the CCV was acceptable. The method blank contained acetone and toluene as discussed above. The MS for 1-butanol failed low at 69%. Due to the holding time limitation, reanalysis was not performed. All sample results were below the MDL and have been flagged with a "b".

Batch 19486: The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 24% and 31%, respectively, which indicates a high bias for these compounds. Since the acetone and 1,2-Dichloroethene results were below the MDL, the CCV was acceptable. The LCS recovery for acetone was above the upper limit of 134% at 150%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were below the MDL, the data usability was not affected and reanalysis was unnecessary. All results for acetone in the batch have been flagged with "b".

Batch 19566: It is apparent from the following discussion that this batch should have been reanalyzed; however, due to a pending instrument outage and an expiring holding time, these are the only results available. With the exception of acetone, all QC failures indicate a high bias; the impact on the data is minimal. 2 Hexanone was detected in the sample and method blanks above the MDL and below the quantitation limit. The sample results have been flagged with a "B". Since the results were below the quantitation limit, reanalysis was not required. The MS failed high for acetone, 2-butanone, 2-hexanone, and hexone. The acetone and 2-hexanone results were above the MDL. All results have been flagged with a "b". Since the 2-hexanone result was below the quantitation limit and flagged with "J", this result was not affected. The acetone result was above the quantitation limit and should be considered biased high. A "J" flag has been applied to this result. The LCS for acetone failed high, again indicating a high bias, and the result has been flagged with an "a". Two CCVs were analyzed with this batch; the closing CCV was normal with only 2 compounds slightly above the ±20% requirement. However, the first CCV had six primary analytes above this requirement. As previously discussed, only acetone was affected by this high bias. The method blank contained toluene as discussed above.

Batch 19680: The LCS recovery for acetone was above the upper limit of 136% at 172%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were below the quantitation limit or below the MDL and flagged with a "J" or "U", the data usability was not affected and reanalysis was unnecessary. The results have been flagged with an "a". The % difference for 2 hexanone was high at 21%, which indicates a high bias for these compounds. Since 2-hexanone was below the quantitation limit and is not a primary analyte, the CCV was acceptable. The method blank contained acetone as discussed above.

Batch 20082: The method blank contained m,p-xylene at a level slightly above the MDL. Since the sample result for this compound was below the MDL, the blank was acceptable. The method blank contained toluene as discussed above. The RPD between the MS and MSD exceeded the ±30% requirement at 67%. Since the sample result was 72.5 ug/kg, the blank result was below the MDL, and all other QC for acetone was acceptable, inhomogeneity is suspected. Reanalysis was not performed due to holding time expiration.

Batch 20256: The method blank contained acetone and toluene as discussed above.

3.4.2 Semivolatile Organic Analysis

The semivolatile organic analysis (SVOA) by GC/MS was performed on methylene chloride extractions of all grab samples and liner composite samples. All holding times were met.

The SVOA analysis met the required and target detection limits with two exceptions:

- The adjusted MDLs for cyclohexanone were above the 0.5 mg/kg target detection limit for most samples. This compound obtained detection limits between 0.5 mg/kg an 0.6 mg/kg.
- The adjusted MDLs for di-n-butyl-phthalate were above the target detection limit of 0.33 mg/kg. The analysis achieved a detection limit of between 0.5 mg/kg and 0.6 mg/kg for this compound.

The LCS, MS, and MSD recoveries were compared against the laboratory's SPC limits, as required by SW-846. The use of SPC limits is permitted in the FSAP, SAP, and QAPP.

The SAP and FSAP requested m-cresol and p- cresol be reported separately. Since it is not possible to resolve these individual compounds when performing SVOA by SW-846 8270C, these compounds have been report as m+p cresol.

Isobutanol is listed as a required volatile organic compound in the FSAP. Since it does not purge well, it was analyzed as using SVOA.

Batch 19182: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batches 19296 and 19488: Butylbenzylphthalate was detected in the method blank slightly above the MDL and below the quantitation limit. This compound was detected in the samples at a similar level and has been flagged with a "B". Since all results were below the quantitation level, reanalysis was not required and the blank is acceptable.

Batch 19779: The MS recovery for 4-Chloro-3-methylphenol was above the 103% upper limit at 108%. Since this compound was not detected in the sample, reanalysis was not required.

3.4.3 Tentatively Identified Compounds

Unassigned peaks or TICs were treated as follows. Standards were obtained and analyzed for each secondary analyte identified in the SAP. This data was accumulated in the Hanford library. Following analysis, the largest TICs, with instrument responses greater than 10% of the response of the nearest internal standard, were evaluated and compared to the Hanford library. The estimated concentration of these TICs was calculated using measured response factors from the Hanford library compound list.

After comparison to the Hanford library, remaining unknowns were compared to the National Institute of Standards and Technology's *HP Mass Spectral (compound) Libraries* (NIST 02). The estimated concentration of compounds identified in the NIST library was calculated based on an arbitrary response factor of 1.0. If the compounds were not identified as a result of this comparison, they were reported as "unknown." Summaries of the SVOA and VOA TICs from the field samples and method blanks are provided in Attachment 4. TICs that were found in the field samples and were present in the associated batch method blank have been flagged with "B".

4.0 PROCEDURES

Table 2 lists the analytical procedures used for analysis of the Area C samples.

Table 2. Analytical Procedures

Analysis	Preparation Method	Analysis Procedure
Inorganic Analyses		
Cyanide	LA-695-103, Rev. I-0, J-0 (SW-846 9010C)	LA-695-103, Rev. J-0 (SW-846 9014)

Analysis	Preparation Method	Analysis Procedure
Sulfide	LA-361-101, Rev. D-0 (SW-846 9030B)	LA-361-101, Rev. D-0 (SW-846 9215)
pH (solid)	LA-212-105, Rev. G-0 (SW-846 9045D)	LA-212-105, Rev. G-0 (SW-846 9045D)
pH (liquid)	Direct	LA-212-106, Rev. H-0 (SW-846 9040D)
Mercury – Cold Vapor Atomic Absorption	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)
Ammonia – IC	LA-544-112, Rev. E-0	LA-533-101, Rev. Q-0
Anions & Organic Acids – IC	LA-504-101, Rev. L-0	LA-533-115, Rev. J-0
Metals – ICP /AES	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-505-161, Rev. J-0-A (SW-846 6010C)
^{99}Tc, ^{126}Sn – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. F-1
^{99}Tc – ICP/MS	08-ATL-078 Vadose Water Digest	LA-506-103, Rev. A-0
Metals – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. E-0, F-1 LA-506-103, Rev. A-0 (SW-846 6020A)
Actinides – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-1-2, Rev. F-1 LA-506-103, Rev. A-0
Radiochemical Analyses		
GEA	Direct	LA-548-121, Rev. I-0
^{90}Sr – Separation/Beta counting (Solid)	LA-544-101, Rev. F-0	LA-220-103, Rev. J-0
^{90}Sr – Separation/Beta counting (Liquid)	LA-220-104, Rev. I-0	LA-220-104, Rev. I-0
^{3}H – LSC	LA-504-101, Rev. L-0	LA-218-111, Rev. G-0
^{14}C – LSC	LA-504-101, Rev. L-0	LA-348-104, Rev. H-0
^{79}Se – Separation/LSC	LA-544-101, Rev. F-0	LA-365-132, Rev. I-0
^{63}Ni – Separation/LSC	LA-544-101, Rev. F-0	LA-285-102, Rev. E-0
^{129}I – Separation/GEA	LA-378-105, Rev. C-0	LA-378-105, Rev. C-0
^{241}Am, $^{243/244, 242}$Cm – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
$^{239/240, 238}$Pu – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
Organic Analyses		
VOC – GC/MS	Direct	LA-523-118, Rev. G-O-A (SW-846 8260B)
SVOC – GC/MS	LA-523-138, Rev. F-0 (SW-846 3540C)	LA-523-135, Rev. C-0, D-0 (SW-846 8270C)

5.0 REFERENCES

ATL-MP-1011, 2010, *ATL Quality Assurance Project Plan for 222-S Laboratory*, Rev. 9, Advanced Technologies and Laboratories International, Inc., Richland, Washington.

NIST 02, 2002, *HP Mass Spectral Libraries*, July 2002 Release, Hewlett-Packard Company, Palo Alto, California.

SW-846, 1986, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods,* Third Edition, as amended, U.S. Environmental Protection Agency, Washington, D.C.

RPP-PLAN-40564, 2009, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C,* Rev. 2, Washington River Protection Solutions, Inc.

RPP-PLAN-38777, 2009, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C*, Rev. 1, Washington River Protection Solutions, Inc.

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-032	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 1	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	surface	n/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MR0	WATER	4-15-10	1010
S10V000310			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	[illegible]	4/15/10 @1410

SPECIAL INSTRUCTIONS
cooler 1 L

22252010016O

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	V10-002-022	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Trip Blank 1	WMA C Sampling for CMS - QC Sampling	V10-002

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFV2-09-003	TFV2-09-000001	Surface	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238F5	WATER	4-15-10	0925
S10V000320			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell		[signature]	4/15/10 @1410

SPECIAL INSTRUCTIONS
11c cooler

222S20100160

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	V10-003-055	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KN6	SOIL	4-15-10	1010	✓	✓	
S10V000368	Lo					
S10V000369	Hi					
DPR 379						
4-20-10						

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	B Tullock	4/15/10 @ 1410

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.

Freezer - 11c
Cooler 11c

22225201 0213

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	V10-003-054	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23K87	SOIL	4-15-10	1010	✓
S10V000390				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BCampbell	4-15-10 1410	D Tuttle	4/15/10 @ 1410
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

Cooler 1°C
Freezer -1°C

222S20100213

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	V10-003-053	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23R25	SOIL	4-15-10	1010	✓
S10V000401				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	TM Gollock	4/15/10 @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

(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;

cooler 11c

22252010021 3

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	V10-003-058	PAGE 1 OF 1

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.**		
C7670 Surface Dup	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-000001	TFV2-09-00000	Surface Dup	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KN9	SOIL	4-15-10	1010	✓	✓
S10V000369	Lo				
S10V000380	Hi				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	D McCollock	4/15/10 @ 1410

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.

Freezer -11c
Cooler 11c

222S20100213

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	V10-003-057	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
C7670 Surface Dup	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** B-4-15-10 ~~B~~C N/9	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	Surface Dup		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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN8	SOIL	4-15-10	1010	✓
S10V000391				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	TM Eckel	4/15/10 @ 1410

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.

Coolers 11 C
Freezer 11 C

222S20100213

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	V10-003-056	PAGE 1 OF 1

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.**		
C7670 Surface Dup	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	Surface Dup	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	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN7	SOIL	4-15-10	1010	✓
S10V000402				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	D Tuckett	4/15/10 @1410

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;

cooler 11 c

222S20100213

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	V10-002-033	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 2	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	5-7	n/a	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR1	WATER	4-20-10	1214	✓
510V000311				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	T McCollock	4/20/10 @1350
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

2225 201 00160

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-023	PAGE 1 OF 1
COLLECTOR: Campbell / Harris	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7670 Trip Blank 2	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V10-002	AIR QUALITY: ☐	
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 5-7	COA: n/a	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	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238F6	WATER	4-20-10	1214	✓
510V000321				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	D Tuttle	4/20/10 @ 1350

SPECIAL INSTRUCTIONS: 22262010016 0

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-060	PAGE 1 OF 1

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.**		
C7670 I001	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	5-7	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN5	SOIL	4-20-10	1245	✓
510V000392				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-pbell	4-20-10 1350	M McCollock	4/20/10 @ 1350

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.

22252010021 3

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-061	PAGE 1 OF 1

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.**		
C7670 I001	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	5-7	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KN4	SOIL	4-20-10	1245	✓	✓	
S10V000370	Lo					
S10V000381	Hi					

CHAIN OF POSSESSION / **SIGN/PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	B Tuteboch	4/20/10 @ 1350

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.

222S20100213

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-059	PAGE 1 OF 1

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.**		
C7670 I001	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-00000	5-7	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)	2 BC 4-20-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238J9	SOIL	4-20-10	1245	✓
S10V000412				
S10V000413				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BC Campbell BC Campbell	4-20-10 1350	Tretollock	4/20/10 @ 1350
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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;

222S20100213

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-034	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Field Blank 3	WMA C Sampling for CMS - QC Sampling	V10-002

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
~~TFVZ~~ - 09-003	TFVZ-09-000001	10 - 12	N/A	GOVERNMENT VEHICLE

SHIPPED TO BRC 4/22/10	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR2	WATER	4/22/10	0830	✓
S10V000312				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RKSteele RKSteele	4-22-10 1200

SPECIAL INSTRUCTIONS

-0°C +B
RKS

222S20100160

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	V10-002-024	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 3	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	10-12	n/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP2	WATER	4-22-10	0820	✓
S10V000322				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RKSteele RKSteele	4-22-10 1200

SPECIAL INSTRUCTIONS
-0°C TB
RK

222S20100160

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	V10-003-064	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	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	10-12	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 <-7C and >-20C	MEOH/Cool~4 C		
TYPE OF CONTAINER	Gs	Gs		
NO. OF CONTAINER(S)	5	3		
VOLUME	40mL	40mL		
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B23KP2	SOIL	4/22/10	0915	✓	✓								
S10V000371	Low Level VOA												
S10V000382	High Level VOA												

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RtBak RBtBak	4-22-10 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

** 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, 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.

-12°C TB
RB

222S 20100213

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			V10-003-063	PAGE 1 OF 1
COLLECTOR: HARRIS	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-09-000001	ACTUAL SAMPLE DEPTH: 10-12	COA: N/A	METHOD OF SHIPMENT: Govt. 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	Cool~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP1	SOIL	4/22/10	0915	✓
S10V000393	MeOH Blank			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Horte	4-22-10 1200	RH Hall RH Hall	4-22-10 1200

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.

-0 C TB
RHH

222S20100213

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	V10-003-062	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	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	10-12	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)	~~2~~ 4-22-10 1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP0	SOIL	4/22/10	0915	✓
S10V000415				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	R.A. Rist RA Rist 6616	4-22-10 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;

-0°C TO RK

222S 20100213

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			V10-003-065	PAGE 1 OF 1
COLLECTOR: HARRIS	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	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.: 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	Cool~6C
TYPE OF CONTAINER	Liner/Jars 500 ml
NO. OF CONTAINER(S)	3 BC 4-22-10 2
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP3	SOIL	4/22/10	945	✓
S10V000416	Liner A			
S10V000417	Shoe			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris 4-22-10	1200	RAHeal RASteele 4-22-10	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

** 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;

α TB
RAHeal

222S 20100 213

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		V10-003-070	PAGE 1 OF 1
COLLECTOR: HARRIS	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P
SAMPLING LOCATION: C7670 I004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-04-00000	ACTUAL SAMPLE DEPTH: 14-16	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A	

DATA TURNAROUND: 75 Days / 75 Days

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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KP8	SOIL	4/22/10	1055	✓	✓	
S10V000373	Low Level VOA					
S10V000384	High Level VOA					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	4-22-10 1200	[illegible]	4-22-10 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

** 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.

0°C TB RK
-12°C TB RK

222S20100213

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			V10-003-069	PAGE 1 OF 1
COLLECTOR Harvis	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7670 I004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFV2-09-003	FIELD LOGBOOK NO. TFV2-09-000001	ACTUAL SAMPLE DEPTH 14-16	COA N/A	METHOD OF SHIPMENT Govt. 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	Cool~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP7	SOIL	4-22-10	1055	✓
S10V000395	MeOH Blank			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	4-22-10 1200	RHSteele	4-22-10 1200

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.

0°CTB
RA

222S20100213

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	V10-003-068	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I004	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	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~~ 2 BC 4-22-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP6	SOIL	4-22-10	1055	J
S10V000821	Liner A			
S10V000822	Liner B			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	4-22-10 1200	RHSteele	4-22-10 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

** 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;

DOCTB
RKB

222S 20100213

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	V10-002-035	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 4	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	39' - 41'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR3	WATER	4-23-10	0855	✓
SDV000313				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RHSteele RHSteele	4-23-10 1150

SPECIAL INSTRUCTIONS

0°C TD RA

222S 20100160

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	V10-002-025	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Trip Blank 4	WMA C Sampling for CMS - QC Sampling	V10-002

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFV2-09-003	TFV2-09-000001	39' - 41'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP3	WATER	4-23-10	0855	✓
S10V000323				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RJ Steele RJ Steele	4-23-10 1150

SPECIAL INSTRUCTIONS

-0°C TS
RS

222S 20100160

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			V10-003-073	PAGE 1 OF 1
COLLECTOR: Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-~~000002~~ 000001	ACTUAL SAMPLE DEPTH: 39-41	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO. RES 4/23/10 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	Cool <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3 ✓
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KR1	SOIL	4/23/10	0943	✓	✓
S10V000374	Low level				
S10V000385	High level				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RHTeale RHTeale	4-23-10 1150
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

0°C TB RB / -7°C RB RB

222S20100213

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	V10-003-072	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.**		
C7670 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	39-41	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR0	SOIL BC 4-23-10 Liquid	4-23-10	0943	✓
S10V000396	MeOH			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BC_pbell	4-23-10 1150	RLSteele RLSteele	4-23-10 1150
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

OCTB
RK

222S 20100213

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	V10-003-071	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.**		
C7670 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	39-41	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	
B23KP9	SOIL	4-23-10	0943	✓
S10V000 824	Liner A			
825	Liner B			
826	Liner C			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RKSteele RKSteele	4-23-10 1150

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;

OC + B
-0 RK

222S 20100213

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	V10-002-036	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 5	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	139-141	n/a	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR4	WATER	5-4-10	0925	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-pbell	5-4-10 1215	RJ Steele RJSteele	5-4-10 1215

SPECIAL INSTRUCTIONS
0°C TB
GRP# 222S20100160
Sample# S10V000314
omni pts ✓

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	V10-002-026	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 5	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	139-141	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MP4	WATER	5-4 ~~4-5~~ 10	0925
		B: 5-4-10	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell / B Campbell	5-4-10 1215	[illegible]	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

0 C 1 B

222S20100160
S10V000324

omni
DLV

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	V10-003-076	PAGE 1 OF 1

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.**		
C7670 I006	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	139-141	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KR4	SOIL	5-4-10	1002	✓	✓	
S10V000375	Lo					
386	Hi					

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RL Bischoff PC-Bischoff	5-4-10 1215	RL Steele RL Steele	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

-0°C TB / -7°C TB
222S20100213
S10V000375
S10V000386

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	V10-003-075	PAGE 1 OF 1

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.**		
C7670 I006	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	139-141	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR3	SOIL	5-4-10	1002	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-4-10 1215	R Hart R Steele	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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, 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.

-0 °C TB

222S20100213
S10V000397

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	V10-003-074	PAGE 1 OF 1

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.**		
C7670 I006	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	139'- 141'	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	
B23KR2	SOIL	5-4-10	1002	✓
S10V000 827	A			
828	B			
829	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-4-10 1215	RAStecle RAStecle	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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;

0°C TB 222S20100213
S10V000 827 → 829 omit

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-037	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 6	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	163-165	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR5	WATER	5-5-10	08:56	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-5-10 1130	RHSteele RHSteele	5-5-10 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

-1°C TB
RHSteele

~~222S2010213~~
~~S10V000830 831, 832~~
RHSteele 5.5.10
222S20100160
S10V000315

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	V10-002-027	PAGE 1 OF 1

COLLECTOR Harris / Campbell	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** BERLIN, PC
PRICE CODE 7P	**DATA TURNAROUND** 75 Days / 75 Days	**AIR QUALITY** ☐	
SAMPLING LOCATION C7670 Trip Blank 6	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC Sampling	**SAF NO.** V10-002	
ICE CHEST NO. TFVZ-09-003	**FIELD LOGBOOK NO.** TFVZ-09-000001	**ACTUAL SAMPLE DEPTH** 163' - 165'	**COA** n/A
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	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP5	WATER	5-5-10	08:56	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-5-10 1130	RHSteele RHSteele	5-5-10 1130

SPECIAL INSTRUCTIONS
1 °C TB
RHSteele

22252010016O
S10V000325

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-079	PAGE 1 OF 1
COLLECTOR: Campbell / Harris	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 163 – 165	COA: n/A	METHOD OF SHIPMENT: Govt. 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	Cool <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B23KR7	SOIL	5-5-10	1030	✓	✓								

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: BCampbell BCampbell	DATE/TIME: 5.5.10 1130	RECEIVED BY/STORED IN: RtSteele RtSteele	DATE/TIME: 5.5.10 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

** 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°C TB
-8°C TB

222S20100213
S10V000376-LO
S10V000387-Hi

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-078	PAGE 1 OF 1
COLLECTOR: Campbell / Harris	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 163-165	COA: N/A	METHOD OF SHIPMENT: Govt. 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	Cool~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR6	SOIL	5-5-10	1030	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: B Campbell BC-pbell	DATE/TIME: 5-5-10 1130	RECEIVED BY/STORED IN: RKSteele RKSteele	DATE/TIME: 5-5-10 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

** 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°C TB
2225 20100214 213 RKSteele 5-5-10
510V000398

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-077	PAGE 1 OF 1

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.**		
C7670 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	163-165	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	
B23KR5	SOIL	5-5-10	1030	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BCampbell	5.5.10 1130	RtSteele RtSteele	5.5.10 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;

-1°C TB
RK

222SC0100213
510V000 830, 831, 832
A B C

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-038	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7670 Field Blank 7	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	220' - 222'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR6	WATER	5-7-10	11:30	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	R.L. Steele R.L. Steele	5-7-10 1300

SPECIAL INSTRUCTIONS
1°C TB
RK

GRP# 22252010160
SAM# S10V000316

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			V10-002-028	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C7670 Trip Blank 7	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V10-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-09-000001	ACTUAL SAMPLE DEPTH: 220'-222'	COA: N/A	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	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MP6	WATER	5-7-10	11:30
S10V000326			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	RKSteele RKSteele	5-7-10 1300

SPECIAL INSTRUCTIONS
1 °C TB
RK

20100160

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	V10-003-081	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 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-09-000001	5/13/10 5-~~200'~~ 220' - 222'	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR9	SOIL	5-7-10	1215	✓
S10V000399	Methanol Blk			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	R.T. Steele R.T. Steele	5.7.10 1300

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 oc TB RK 20100213

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	V10-003-080	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 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-09-000001	220' - 222'	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)	~~1~~ 2 SAS 5-7-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR8	SOIL	5-7-10	1215	✓
S10V000834	B			
835	C			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris, Dan Harris	5-7-10 1500	Rhetul etsteele	5-7-10 1300

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;

1 OC TB RK 20100213

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	V10-002-039	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
B. Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Field Blank 8	WMA C Sampling for CMS - QC Sampling	V10-002 N/A

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVZ-09-003	TFVZ-09-000001	222-224	N/A	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR7	WATER	5-11-10	1255	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BC-Campbell	5-11-10 1420	Rstedt Rstedt	5/11/10 1420
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

QC

GRP# 20100160
SAM# S10V000317

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	V10-002-029	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 8	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	222-224	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP7	WATER	5-11-10	1255	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	5-11-10 1420	R Steedg R Steedg	5-11-10 1420

SPECIAL INSTRUCTIONS
λ °C TB
pK
GRP # 20100160
SAM # S10V000327

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	V10-003-085	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
C7670 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-09-00000	222-224	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 <-7C and >-20C	MEOH/Cool~4 C		
TYPE OF CONTAINER	Gs	Gs		
NO. OF CONTAINER(S)	5	3		
VOLUME	40mL	40mL		
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);		

No sample RSteele 5-11-10

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B23KT3	SOIL	5-11-10	1335	✓									

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	5-11-10 1420	RSteele RSteele	5-11-10 1420
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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°C TD
-8°C RK

GRP# ~~20100213~~ RK
20100213
Sam# S10V000378

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	V10-003-083	PAGE 1 OF 1

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.**		
C7670 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	222-224	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)	1 SAS 2 5-11-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KT1	SOIL	5-11-10	1335	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Cpbell C-pbell	5-11-10 1420	RL Steele RLSteele	5-11-10 1420

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;

1°C TB

GRP# 20100213
SAM# S10V000836
" 837

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Appendix 5

Data Validation Supporting Documentation

VALIDATION LEVEL:	A	B	(C)	D	E
PROJECT: WMA C (C7670)			DATA PACKAGE: VSR11-035		
VALIDATOR: Carl Schloesslin		LAB: 222-S Lab		DATE: 5-12-2011	
			SDG: 20100213		
ANALYSES PERFORMED					
SW-846/ICP X	SW-846/GFAA	SW-846/Hg X		EPA 200.8	

SAMPLES/MATRIX Soil samples

B23R25, B23KN7, B238J9, B25CN2*, B23KP6, B23KP9, B23KR2, B23KR5, B25ND7**

*Sample B25CN2 is a composite of samples B23KP0 & B23KP3
**Sample B25ND7 is a composite of samples B23KR8 & B23KT1

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 performed on all instruments? ..... Yes No N/A

Initial calibrations acceptable? ..... Yes No N/A

ICP interference checks acceptable? ..... Yes No N/A

ICV and CCV checks performed on all instruments? ..... Yes No N/A

ICV and CCV checks 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:

3. BLANKS (Levels B, C, D, and E)

ICB and CCB checks performed for all applicable analyses? (Levels D, E) ..... Yes No N/A

ICB and CCB 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 blanks analyzed? (Levels C, D, E) ..... Yes No N/A

Field blank results acceptable? (Levels C, D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments:
6010C Batch 19876 MB Hits: Ca 65 ug/g, Fe 2.5 ug/g, Zn 1.0 ug/g
6010C Batch 20874 MB Hits: Ca 14 ug/g, Fe 0.96 ug/g
6020A Batch 20171 MB Hit: Tl 0.023 ug/g
ICP-MS Actinides Batch 20266 MB Hit: Th-230 3.0E-5 ug/g*
ICP-MS Actinides Batch 22364 MB Hit: Th-230 5.5E-5 ug/g
*According to the lab case narrative this MB hit was exactly at the MDL. The result was flagged as a non-detect on the lab's forms, but is actually a detect.

4. ACCURACY (Levels C, D, and E)

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:

6010C Batch 19876: Na MS/PS %Rs = 249%/OK, Si MS/PS %Rs = 196%/OK, Zr MS/PS %Rs = 34%/OK
6010C Batch 20874: Si LCS %R = 64%, Zr MS/PS %Rs = 28%/OK
ICP-MS Actinides Batch 19661: Th-232 MS/PS %Rs = 62%/OK
ICP-MS Fission Batch 20169: Sn-117 MS/PS %Rs = 59%/OK
ICP-MS Fission Batch 20677: Sn-117 MS/PS %Rs = 53%/OK

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:

6010C Batch 20874: Ni lab dup RPD = 51%

ICP-MS Actinides Batch 19661: Field dups B23R25 & B23KN7 Th-232 RPD = 34%, U-238 RPD = 54%

C,

6. ICP QUALITY CONTROL (Levels D and E)

ICP serial dilution samples analyzed? ..... (Yes) No N/A

ICP serial dilution %D values acceptable? ..... (Yes) No N/A

ICP post digestion spike required? ..... (Yes) No N/A

ICP post digestion spike values 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:

None

7. HOLDING TIMES (all levels)

Samples properly preserved? ..... (Yes) No N/A

Sample holding times acceptable? ..... Yes (No) N/A

Comments:

6020A Batch 23807: As analyzed in sample B23KP9 192 days after sample collection.

8. RESULT QUANTITATION AND DETECTION LIMITS (all levels)

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:

All applicable 6020A Batches: All MDLs for Se significantly > the RDL of 0.03 ug/g.

Appendix 6

Additional Documentation Requested By Client

Hold Time Report: Metals - ICP/AES, ICP/MS

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
S10V000420	SOLID	SW-846 6010C	SW-846 3050B	04/15/10 10:10	04/15/10 14:10	06/03/10 17:59	N
S10V000420	SOLID	SW-846 6010C	SW-846 3050B	04/15/10 10:10	04/15/10 14:10	06/10/10 10:07	N
S10V000578	SOLID	SW-846 6010C	SW-846 3050B	04/15/10 10:10	04/15/10 14:10	06/03/10 20:36	N
S10V000578	SOLID	SW-846 6010C	SW-846 3050B	04/15/10 10:10	04/15/10 14:10	06/10/10 10:44	N
S10V000630	SOLID	SW-846 6010C	SW-846 3050B	04/20/10 12:45	04/20/10 13:50	06/03/10 20:51	N
S10V000630	SOLID	SW-846 6010C	SW-846 3050B	04/20/10 12:45	04/20/10 13:50	06/10/10 11:00	N
S10V000639	SOLID	SW-846 6010C	SW-846 3050B	04/22/10 09:15	04/22/10 12:00	06/03/10 20:53	N
S10V000639	SOLID	SW-846 6010C	SW-846 3050B	04/22/10 09:15	04/22/10 12:00	06/10/10 11:02	N
S10V000657	SOLID	SW-846 6010C	SW-846 3050B	04/22/10 10:55	04/23/10 12:00	06/03/10 20:56	N
S10V000657	SOLID	SW-846 6010C	SW-846 3050B	04/22/10 10:55	04/23/10 12:00	06/10/10 11:20	N
S10V000666	SOLID	SW-846 6010C	SW-846 3050B	04/23/10 09:43	04/23/10 11:50	07/20/10 13:38	N
S10V000675	SOLID	SW-846 6010C	SW-846 3050B	05/04/10 10:02	05/04/10 12:15	07/20/10 14:26	N
S10V000684	SOLID	SW-846 6010C	SW-846 3050B	05/05/10 10:30	05/06/10 11:30	07/20/10 14:29	N
S10V000693	SOLID	SW-846 6010C	SW-846 3050B	05/07/10 12:15	05/07/10 13:00	07/20/10 14:31	N
S10V000420	SOLID	SW-846 6020A	SW-846 3050B	04/15/10 10:10	04/15/10 14:10	06/02/10 19:18	N
S10V000420	SOLID	SW-846 6020A	SW-846 3050B	04/15/10 10:10	04/15/10 14:10	06/15/10 12:25	N
S10V000578	SOLID	SW-846 6020A	SW-846 3050B	04/15/10 10:10	04/15/10 14:10	06/03/10 19:53	N
S10V000578	SOLID	SW-846 6020A	SW-846 3050B	04/15/10 10:10	04/15/10 14:10	06/15/10 12:39	N
S10V000630	SOLID	SW-846 6020A	SW-846 3050B	04/20/10 12:45	04/20/10 13:50	06/03/10 19:59	N
S10V000630	SOLID	SW-846 6020A	SW-846 3050B	04/20/10 12:45	04/20/10 13:50	06/15/10 14:42	N
S10V000639	SOLID	SW-846 6020A	SW-846 3050B	04/22/10 09:15	04/22/10 12:00	06/03/10 20:06	N
S10V000639	SOLID	SW-846 6020A	SW-846 3050B	04/22/10 09:15	04/22/10 12:00	06/15/10 14:48	N
S10V000657	SOLID	SW-846 6020A	SW-846 3050B	04/22/10 10:55	04/23/10 12:00	06/03/10 20:13	N
S10V000657	SOLID	SW-846 6020A	SW-846 3050B	04/22/10 10:55	04/23/10 12:00	06/15/10 14:55	N
S10V000666	SOLID	SW-846 6020A	SW-846 3050B	04/23/10 09:43	04/23/10 11:50	06/29/10 13:39	N
S10V000666	SOLID	SW-846 6020A	SW-846 3050B	04/23/10 09:43	04/23/10 11:50	06/29/10 15:43	N
S10V000675	SOLID	SW-846 6020A	SW-846 3050B	05/04/10 10:02	05/04/10 12:15	06/29/10 13:52	N
S10V000675	SOLID	SW-846 6020A	SW-846 3050B	05/04/10 10:02	05/04/10 12:15	06/29/10 15:56	N
S10V000684	SOLID	SW-846 6020A	SW-846 3050B	05/05/10 10:30	05/06/10 11:30	06/29/10 13:59	N

Hold Time Report: Metals - ICP/AES, ICP/MS

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
S10V000684	SOLID	SW-846 6020A	SW-846 3050B	05/05/10 10:30	05/06/10 11:30	06/29/10 16:03	N
S10V000693	SOLID	SW-846 6020A	SW-846 3050B	05/07/10 12:15	05/07/10 13:00	06/29/10 14:05	N
S10V000693	SOLID	SW-846 6020A	SW-846 3050B	05/07/10 12:15	05/07/10 13:00	06/29/10 16:09	N
S10V001213	SOLID	SW-846 6020A	SW-846 3050B	04/20/10 12:45	04/20/10 13:50	07/12/10 21:15	N
S10V001214	SOLID	SW-846 6020A	SW-846 3050B	04/15/10 10:10	04/15/10 14:10	07/12/10 21:22	N
S10V001215	SOLID	SW-846 6020A	SW-846 3050B	04/22/10 10:55	04/23/10 12:00	07/12/10 21:30	N
S10V001216	SOLID	SW-846 6020A	SW-846 3050B	04/23/10 09:43	04/23/10 11:50	07/12/10 21:38	N
S10V001217	SOLID	SW-846 6020A	SW-846 3050B	05/04/10 10:02	05/04/10 12:15	07/12/10 21:45	N
S10V001218	SOLID	SW-846 6020A	SW-846 3050B	05/05/10 10:30	05/06/10 11:30	07/12/10 21:53	N
S10V001219	SOLID	SW-846 6020A	SW-846 3050B	04/15/10 10:10	04/15/10 14:10	07/12/10 22:37	N
S10V001220	SOLID	SW-846 6020A	SW-846 3050B	04/22/10 09:15	04/22/10 12:00	07/12/10 22:00	N
S10V001221	SOLID	SW-846 6020A	SW-846 3050B	05/07/10 12:15	05/07/10 13:00	07/12/10 22:08	N
S10V003308	SOLID	SW-846 6020A	SW-846 3050B	04/23/10 09:43	04/23/10 11:50	10/21/10 19:22	N
S10V003308	SOLID	SW-846 6020A	SW-846 3050B	04/23/10 09:43	04/23/10 11:50	11/01/10 14:55	Y
S10V003309	SOLID	SW-846 6020A	SW-846 3050B	05/04/10 10:02	05/04/10 12:15	10/21/10 19:35	N
S10V003309	SOLID	SW-846 6020A	SW-846 3050B	05/04/10 10:02	05/04/10 12:15	11/01/10 15:07	N
S10V003310	SOLID	SW-846 6020A	SW-846 3050B	05/05/10 10:30	05/06/10 11:30	10/21/10 19:41	N
S10V003310	SOLID	SW-846 6020A	SW-846 3050B	05/05/10 10:30	05/06/10 11:30	11/01/10 15:14	N
S10V003311	SOLID	SW-846 6020A	SW-846 3050B	05/07/10 12:15	05/07/10 13:00	10/21/10 19:47	N
S10V003311	SOLID	SW-846 6020A	SW-846 3050B	05/07/10 12:15	05/07/10 13:00	11/01/10 15:20	N

Hold Time Report: ICP/MS Actinides

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S10V000420	SOLID	LA-506-102	SW846-3050B	04/15/10 10:10	04/15/10 14:10	04/27/10 09:48	05/26/10 18:35	N
S10V000578	SOLID	LA-506-102	SW846-3050B	04/15/10 10:10	04/15/10 14:10	04/27/10 09:48	05/26/10 18:49	N
S10V000630	SOLID	LA-506-102	SW846-3050B	04/20/10 12:45	04/20/10 13:50	04/27/10 09:48	05/26/10 18:56	N
S10V000639	SOLID	LA-506-102	SW846-3050B	04/22/10 09:15	04/22/10 12:00	04/27/10 09:48	05/26/10 19:03	N
S10V000657	SOLID	LA-506-102	SW846-3050B	04/22/10 10:55	04/23/10 12:00	04/27/10 09:48	05/26/10 19:10	N
S10V000666	SOLID	LA-506-102	SW846-3050B	04/23/10 09:43	04/23/10 11:50	05/25/10 22:40	06/22/10 18:17	N
S10V000675	SOLID	LA-506-102	SW846-3050B	05/04/10 10:02	05/04/10 12:15	05/25/10 22:40	06/22/10 18:31	N
S10V000684	SOLID	LA-506-102	SW846-3050B	05/05/10 10:30	05/06/10 11:30	05/25/10 22:40	06/22/10 18:38	N
S10V000693	SOLID	LA-506-102	SW846-3050B	05/07/10 12:15	05/07/10 13:00	05/25/10 22:40	06/22/10 18:44	N

Holding Time Report: Isotopic ICP/MS Tc-99 & Sn-126

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S10V000422	SOLID	LA-506-102	SW846-3050B	04/15/10 10:10	04/20/10 09:08	04/27/10 16:55	06/04/10 19:20	N
S10V000422	SOLID	LA-506-102	SW846-3050B	04/15/10 10:10	04/20/10 09:08	06/11/10 14:00	06/14/10 13:03	N
S10V000624	SOLID	LA-506-102	SW846-3050B	04/15/10 10:10	04/15/10 14:10	04/27/10 16:55	06/04/10 20:08	N
S10V000624	SOLID	LA-506-102	SW846-3050B	04/15/10 10:10	04/15/10 14:10	06/11/10 14:00	06/14/10 13:19	N
S10V000632	SOLID	LA-506-102	SW846-3050B	04/20/10 12:45	04/20/10 13:50	04/27/10 16:55	06/04/10 20:49	N
S10V000632	SOLID	LA-506-102	SW846-3050B	04/20/10 12:45	04/20/10 13:50	06/11/10 14:00	06/14/10 13:49	N
S10V000641	SOLID	LA-506-102	SW846-3050B	04/22/10 09:15	04/22/10 12:00	04/27/10 16:55	06/04/10 20:57	N
S10V000641	SOLID	LA-506-102	SW846-3050B	04/22/10 09:15	04/22/10 12:00	06/11/10 14:00	06/14/10 13:57	N
S10V000659	SOLID	LA-506-102	SW846-3050B	04/22/10 10:55	04/23/10 12:00	04/27/10 16:55	06/04/10 21:06	N
S10V000659	SOLID	LA-506-102	SW846-3050B	04/22/10 10:55	04/23/10 12:00	06/11/10 14:00	06/14/10 14:28	N
S10V000668	SOLID	LA-506-102	SW846-3050B	04/23/10 09:43	04/23/10 11:50	05/25/10 22:33	07/02/10 14:06	N
S10V000677	SOLID	LA-506-102	SW846-3050B	05/04/10 10:02	05/04/10 12:15	05/25/10 22:33	07/02/10 14:23	N
S10V000686	SOLID	LA-506-102	SW846-3050B	05/05/10 10:30	05/06/10 11:30	05/25/10 22:33	07/02/10 14:55	N
S10V000695	SOLID	LA-506-102	SW846-3050B	05/07/10 12:15	05/07/10 13:00	05/25/10 22:33	07/02/10 15:03	N

Holding Time Report: Isotopic ICP/MS Tc-99

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S10V001729	SOLID	LA-506-102	Vadose Water Digest	04/15/10 10:10	04/15/10 14:10	08/18/10 11:17	08/19/10 20:15	N
S10V001730	SOLID	LA-506-102	Vadose Water Digest	04/15/10 10:10	04/15/10 14:10	08/18/10 11:17	08/19/10 20:27	N
S10V001731	SOLID	LA-506-102	Vadose Water Digest	04/20/10 12:45	04/20/10 13:50	08/18/10 11:17	08/19/10 20:33	N
S10V001732	SOLID	LA-506-102	Vadose Water Digest	04/22/10 09:15	04/22/10 12:00	08/18/10 11:17	08/19/10 20:39	N
S10V001733	SOLID	LA-506-102	Vadose Water Digest	04/22/10 10:55	04/23/10 12:00	08/18/10 11:17	08/19/10 20:45	N
S10V001734	SOLID	LA-506-102	Vadose Water Digest	04/23/10 09:43	04/23/10 11:50	08/18/10 11:17	08/19/10 20:51	N
S10V001735	SOLID	LA-506-102	Vadose Water Digest	05/04/10 10:02	05/04/10 12:15	08/18/10 11:17	08/19/10 21:14	N
S10V001736	SOLID	LA-506-102	Vadose Water Digest	05/05/10 10:30	05/06/10 11:30	08/18/10 11:17	08/19/10 21:20	N
S10V001737	SOLID	LA-506-102	Vadose Water Digest	05/07/10 12:15	05/07/10 13:00	08/18/10 11:17	08/19/10 21:26	N

LABCORE Completed Batch Report for Batch# 00019066

Analyst: Hexum, Troy

Book#: 119N11D

Instrument: Hg by Cold Vapor by FIAS

Method: HG, LA-325-106 Rev/Mod G-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: HG SOLID FOR C-FARM WMC 2010-1

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1004260102		0 0			Mercury	LIQUID	.01	1.0180E-02			1.00E-04	ug/mL	101.8	% Recovery	
Sample Sequence 2																	
2	ICB	S1004260103		0 0			Mercury	LIQUID		<1.0000E-04			1.00E-04	ug/mL			
Sample Sequence 3																	
3	LLS	S1004260104		0 0			Mercury	LIQUID	.001	1.0560E-03			1.00E-04	ug/mL	105.6	% Recovery	
Sample Sequence 4																	
4	SAMPLE	S09V001613		0 0			Mercury	SOLID	N/A	3.0409E-02			9.33E-03	ug/g			J
Sample Sequence 5																	
5	SPK-PREDIG	S1004260110	S09V001613	0 0			Mercury	SOLID	.45475	4.7249E-01			9.10E-03	ug/g	97.213	% Recovery	
Sample Sequence 6																	
6	SPKPRE-DUP	S1005040074	S09V001613	0 0			Mercury	SOLID	.43685	4.6830E-01			8.74E-03	ug/g	100.24	% Recovery	
															3.0660	% RPD	
Sample Sequence 7																	
7	SAMPLE	S09V001625		0 0			Mercury	SOLID	N/A	9.4394E-03			8.43E-03	ug/g			J
Sample Sequence 8																	
8	SAMPLE	S10V000401		0 0			Mercury	SOLID	N/A	<8.6470E-03			8.65E-03	ug/g			U
Sample Sequence 9																	
9	SAMPLE	S10V000402		0 0			Mercury	SOLID	N/A	<8.6320E-03			8.63E-03	ug/g			U
Sample Sequence 10																	
10	SAMPLE	S10V000403		0 0			Mercury	SOLID	N/A	<9.3410E-03			9.34E-03	ug/g			U
Sample Sequence 11																	
11	SAMPLE	S10V000404		0 0			Mercury	SOLID	N/A	1.0234E-02			8.98E-03	ug/g			J
Sample Sequence 12																	
12	CCV	S1004260108		0 0			Mercury	LIQUID	.01	1.0120E-02			1.00E-04	ug/mL	101.2	% Recovery	
Sample Sequence 13																	
13	CCB	S1004260109		0 0			Mercury	LIQUID		<1.0000E-04			1.00E-04	ug/mL			
Sample Sequence 14																	
14	SAMPLE	S10V000406		0 0			Mercury	SOLID	N/A	1.7070E-02			8.94E-03	ug/g			J
Sample Sequence 15																	
15	SAMPLE	S10V000407		0 0			Mercury	SOLID	N/A	<8.0030E-03			8.00E-03	ug/g			U
Sample Sequence 16																	
16	CCV	S1005040076		0 0			Mercury	LIQUID	.01	1.0160E-02			1.00E-04	ug/mL	101.6	% Recovery	
Sample Sequence 17																	

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019066

17	CCB	S1005040075	0 0	Mercury	LIQUID	<1.0000E-04		1.00E-04	ug/mL

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019066

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00019066

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004260102	ICV				
2	S1004260103	ICB				
3	S1004260104	LLS				
4	S09V001613	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
5	S1004260110	SPK-PREDIG	S09V001613			
6	S1005040074	SPKPRE-DUP	S09V001613			
7	S09V001625	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
8	S10V000401	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
9	S10V000402	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
10	S10V000403	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
11	S10V000404	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
12	S1004260108	CCV				
13	S1004260109	CCB				
14	S10V000406	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
15	S10V000407	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
16	S1005040076	CCV				
17	S1005040075	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019426

Analyst: Hexum, Troy

Book#: 119N11E

Instrument: Hg by FIMS

Method: HG, LA-325-110 Rev/Mod A-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: HG SOLIDS FOR C-FARM WMC 2010-1

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1005170056		0 0			Mercury	LIQUID	.01	1.0330E-02			1.00E-04	ug/mL	103.3	% Recovery	
Sample Sequence 2																	
2	ICB	S1005170057		0 0			Mercury	LIQUID		<1.0000E-04			1.00E-04	ug/mL			
Sample Sequence 3																	
3	LLS	S1005170058		0 0			Mercury	LIQUID	.001	1.0120E-03			1.00E-04	ug/mL	101.2	% Recovery	
Sample Sequence 4																	
4	SAMPLE	S10V000408		0 0			Mercury	SOLID	N/A	<8.4140E-03			8.41E-03	ug/g			U
Sample Sequence 5																	
5	SPK-PREDIG	S1005170064	S10V000408	0 0			Mercury	SOLID	.41305	4.0793E-01			8.26E-03	ug/g	98.76	% Recovery	
Sample Sequence 6																	
6	SPKPRE-DUP	S1005170065	S10V000408	0 0			Mercury	SOLID	.41085	4.1011E-01			8.22E-03	ug/g	99.82	% Recovery	
															1.0676	% RPD	
Sample Sequence 7																	
7	SAMPLE	S10V000409		0 0			Mercury	SOLID	N/A	<8.9650E-03			8.97E-03	ug/g			U
Sample Sequence 8																	
8	SAMPLE	S10V000410		0 0			Mercury	SOLID	N/A	6.8121E-02			8.38E-03	ug/g			J
Sample Sequence 9																	
9	SAMPLE	S10V000145		0 0			Mercury	SOLID	N/A	1.3535E-02			8.41E-03	ug/g			J
Sample Sequence 10																	
10	SAMPLE	S10V000131		0 0			Mercury	SOLID	N/A	1.1032E-02			8.42E-03	ug/g			J
Sample Sequence 11																	
11	CCV	S1005170062		0 0			Mercury	LIQUID	.01	9.9430E-03			1.00E-04	ug/mL	99.43	% Recovery	
Sample Sequence 12																	
12	CCB	S1005170063		0 0			Mercury	LIQUID		<1.0000E-04			1.00E-04	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

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LABCORE Completed Batch Report for Batch# 00019426

Final Page for Batch# 00019426

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019426

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005170056	ICV				
2	S1005170057	ICB				
3	S1005170058	LLS				
4	S10V000408	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
5	S1005170064	SPK-PREDIG	S10V000408			
6	S1005170065	SPKPRE-DUP	S10V000408			
7	S10V000409	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
8	S10V000410	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
9	S10V000145	SAMPLE		20100064	B23TK5	C Farm WMC 2010-1
10	S10V000131	SAMPLE		20100064	B23TK2	C Farm WMC 2010-1
11	S1005170062	CCV				
12	S1005170063	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019876

Analyst: Maling, Tracy

Instrument: ICP-TJA

Method: ICP-TOTAL METALS, LA-505-161 Rev/Mod J-0-A

Specification: C Farm WMC 2010-1

Prep Batch: 00019100

Batch Comment: C-Farm ICP TJA total metals trm

Book#: A-111-091119-1, A-113-091210-2, A-114-091228-6, A-117-100218-1, A-117-100218-4, A-118-100225-2

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1006040028		0 0			Silver	LIQUID	5	4.7566E+00			5.00E-03	ug/mL	95.131	% Recovery	
1	ICV	S1006040028		0 0			Aluminum	LIQUID	5	4.8844E+00			0.03	ug/mL	97.688	% Recovery	
1	ICV	S1006040028		0 0			Arsenic	LIQUID	5	4.8158E+00			0.05	ug/mL	96.315	% Recovery	
3	ICV	S1006040028		0 2			Boron	LIQUID	5	5.0511E+00			0.03	ug/mL	101.02	% Recovery	
1	ICV	S1006040028		0 0			Barium	LIQUID	5	4.9637E+00			3.00E-03	ug/mL	99.274	% Recovery	
1	ICV	S1006040028		0 0			Beryllium	LIQUID	5	4.8591E+00			1.00E-03	ug/mL	97.183	% Recovery	
1	ICV	S1006040028		0 0			Bismuth	LIQUID	5	4.9010E+00			0.1	ug/mL	98.021	% Recovery	
3	ICV	S1006040028		0 2			Calcium	LIQUID	5	5.1414E+00			0.05	ug/mL	102.83	% Recovery	
1	ICV	S1006040028		0 0			Cadmium	LIQUID	5	4.9611E+00			5.00E-03	ug/mL	99.222	% Recovery	
1	ICV	S1006040028		0 0			Cerium	LIQUID	5	5.1015E+00			0.03	ug/mL	102.03	% Recovery	
1	ICV	S1006040028		0 0			Cobalt	LIQUID	5	5.0238E+00			0.01	ug/mL	100.48	% Recovery	
1	ICV	S1006040028		0 0			Chromium	LIQUID	5	5.0113E+00			5.00E-03	ug/mL	100.23	% Recovery	
1	ICV	S1006040028		0 0			Copper	LIQUID	5	4.8757E+00			5.00E-03	ug/mL	97.514	% Recovery	
1	ICV	S1006040028		0 0			Europium	LIQUID	5	4.8547E+00			5.00E-03	ug/mL	97.094	% Recovery	
1	ICV	S1006040028		0 0			Iron	LIQUID	5	4.9588E+00			5.00E-03	ug/mL	99.175	% Recovery	
1	ICV	S1006040028		0 0			Potassium	LIQUID	5	5.1711E+00			0.5	ug/mL	103.42	% Recovery	
1	ICV	S1006040028		0 0			Lanthanum	LIQUID	5	4.9353E+00			3.00E-03	ug/mL	98.706	% Recovery	
1	ICV	S1006040028		0 0			Lithium	LIQUID	5	5.0448E+00			3.00E-03	ug/mL	100.9	% Recovery	
1	ICV	S1006040028		0 0			Magnesium	LIQUID	5	4.8568E+00			0.05	ug/mL	97.137	% Recovery	
1	ICV	S1006040028		0 0			Manganese	LIQUID	5	4.9661E+00			3.00E-03	ug/mL	99.323	% Recovery	
3	ICV	S1006040028		0 2			Molybdenum	LIQUID	5	5.1463E+00			0.02	ug/mL	102.93	% Recovery	
1	ICV	S1006040028		0 0			Sodium	LIQUID	5	5.0668E+00			0.1	ug/mL	101.34	% Recovery	
1	ICV	S1006040028		0 0			Neodymium	LIQUID	5	4.8010E+00			0.01	ug/mL	96.02	% Recovery	
1	ICV	S1006040028		0 0			Nickel	LIQUID	5	4.9373E+00			0.02	ug/mL	98.746	% Recovery	
5	ICV	S1006040028		0 4			Niobium	LIQUID	5	4.9888E+00			0.03	ug/mL	99.776	% Recovery	
1	ICV	S1006040028		0 0			Phosphorus	LIQUID	5	4.9232E+00			0.05	ug/mL	98.464	% Recovery	
1	ICV	S1006040028		0 0			Lead	LIQUID	5	5.1270E+00			0.05	ug/mL	102.54	% Recovery	
2	ICV	S1006040028		0 1			Palladium	LIQUID	5	4.7905E+00			0.1	ug/mL	95.811	% Recovery	
1	ICV	S1006040028		0 0			Praseodymium	LIQUID	5	5.0237E+00			0.01	ug/mL	100.47	% Recovery	
1	ICV	S1006040028		0 0			Rubidium	LIQUID	5	5.0702E+00			1	ug/mL	101.4	% Recovery	
2	ICV	S1006040028		0 1			Rhodium	LIQUID	5	4.8710E+00			0.05	ug/mL	97.42	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
2	ICV	S1006040028		0 1			Ruthenium	LIQUID	5	4.9820E+00			0.03	ug/mL	99.641	% Recovery	
3	ICV	S1006040028		0 2			Sulfur	LIQUID	5	5.0891E+00			0.1	ug/mL	101.78	% Recovery	
3	ICV	S1006040028		0 2			Antimony	LIQUID	5	5.0738E+00			0.05	ug/mL	101.48	% Recovery	
1	ICV	S1006040028		0 0			Selenium	LIQUID	5	5.0593E+00			0.1	ug/mL	101.19	% Recovery	
3	ICV	S1006040028		0 2			Silicon	LIQUID	5	4.9144E+00			0.03	ug/mL	98.287	% Recovery	
1	ICV	S1006040028		0 0			Samarium	LIQUID	5	4.9483E+00			0.02	ug/mL	98.965	% Recovery	
5	ICV	S1006040028		0 4			Tin	LIQUID	5	5.1113E+00			0.03	ug/mL	102.23	% Recovery	
1	ICV	S1006040028		0 0			Strontium	LIQUID	5	4.9586E+00			3.00E-03	ug/mL	99.173	% Recovery	
5	ICV	S1006040028		0 4			Tantalum	LIQUID	5	4.7546E+00			0.05	ug/mL	95.092	% Recovery	
5	ICV	S1006040028		0 4			Tellurium	LIQUID	5	4.9738E+00			0.1	ug/mL	99.475	% Recovery	
1	ICV	S1006040028		0 0			Thorium	LIQUID	5	4.9617E+00			0.05	ug/mL	99.235	% Recovery	
3	ICV	S1006040028		0 2			Titanium	LIQUID	5	5.0714E+00			5.00E-03	ug/mL	101.43	% Recovery	
1	ICV	S1006040028		0 0			Thallium	LIQUID	5	4.9834E+00			0.1	ug/mL	99.668	% Recovery	
1	ICV	S1006040028		0 0			Uranium	LIQUID	5	5.0760E+00			0.1	ug/mL	101.52	% Recovery	
1	ICV	S1006040028		0 0			Vanadium	LIQUID	5	5.0550E+00			5.00E-03	ug/mL	101.1	% Recovery	
5	ICV	S1006040028		0 4			Tungsten	LIQUID	5	4.8581E+00			0.2	ug/mL	97.162	% Recovery	
1	ICV	S1006040028		0 0			Yttrium	LIQUID	5	4.8686E+00			2.00E-03	ug/mL	97.372	% Recovery	
1	ICV	S1006040028		0 0			Zinc	LIQUID	5	4.9363E+00			5.00E-03	ug/mL	98.726	% Recovery	
3	ICV	S1006040028		0 2			Zirconium	LIQUID	5	5.0028E+00			5.00E-03	ug/mL	100.06	% Recovery	
Sample Sequence 6																	
11	LLS	S1006040030		0 5			Silver	LIQUID	.02	1.8740E-02			5.00E-03	ug/mL	93.7	% Recovery	
6	LLS	S1006040030		0 0			Aluminum	LIQUID	.1	1.0497E-01			0.03	ug/mL	104.97	% Recovery	
11	LLS	S1006040030		0 5			Arsenic	LIQUID	.2	2.2657E-01			0.05	ug/mL	113.28	% Recovery	
7	LLS	S1006040030		0 1			Boron	LIQUID	.1	9.4030E-02			0.03	ug/mL	94.03	% Recovery	
6	LLS	S1006040030		0 0			Barium	LIQUID	.01	9.7300E-03			3.00E-03	ug/mL	97.3	% Recovery	
11	LLS	S1006040030		0 5			Beryllium	LIQUID	.001	8.4000E-04			1.00E-04	ug/mL	84	% Recovery	
6	LLS	S1006040030		0 0			Bismuth	LIQUID	.2	1.8229E-01			0.1	ug/mL	91.145	% Recovery	
6	LLS	S1006040030		0 0			Calcium	LIQUID	.2	1.9454E-01			0.05	ug/mL	97.27	% Recovery	
11	LLS	S1006040030		0 5			Cadmium	LIQUID	.01	7.7900E-03			5.00E-03	ug/mL	77.9	% Recovery	
11	LLS	S1006040030		0 5			Cerium	LIQUID	.2	2.0693E-01			0.03	ug/mL	103.46	% Recovery	
7	LLS	S1006040030		0 1			Cobalt	LIQUID	.04	3.8860E-02			0.01	ug/mL	97.15	% Recovery	
6	LLS	S1006040030		0 0			Chromium	LIQUID	.02	2.2120E-02			5.00E-03	ug/mL	110.6	% Recovery	
7	LLS	S1006040030		0 1			Copper	LIQUID	.02	2.0740E-02			5.00E-03	ug/mL	103.7	% Recovery	
8	LLS	S1006040030		0 2			Europium	LIQUID	.1	9.8790E-02			5.00E-03	ug/mL	98.79	% Recovery	
11	LLS	S1006040030		0 5			Iron	LIQUID	.05	4.7610E-02			5.00E-03	ug/mL	95.22	% Recovery	
10	LLS	S1006040030		0 4			Potassium	LIQUID	.5	5.6462E-01			0.5	ug/mL	112.92	% Recovery	
11	LLS	S1006040030		0 5			Lanthanum	LIQUID	.01	9.6000E-03			3.00E-03	ug/mL	96	% Recovery	
6	LLS	S1006040030		0 0			Lithium	LIQUID	.02	2.1460E-02			3.00E-03	ug/mL	107.3	% Recovery	
6	LLS	S1006040030		0 0			Magnesium	LIQUID	.2	1.9322E-01			0.05	ug/mL	96.61	% Recovery	
6	LLS	S1006040030		0 0			Manganese	LIQUID	.02	1.9240E-02			3.00E-03	ug/mL	96.2	% Recovery	
7	LLS	S1006040030		0 1			Molybdenum	LIQUID	.1	9.9030E-02			0.02	ug/mL	99.03	% Recovery	
6	LLS	S1006040030		0 0			Sodium	LIQUID	.2	2.0196E-01			0.1	ug/mL	100.98	% Recovery	

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
6	LLS	S1006040030		0 0			Neodymium	LIQUID	.1	1.0844E-01			0.01	ug/mL	108.44	% Recovery	
11	LLS	S1006040030		0 5			Nickel	LIQUID	.04	4.9660E-02			0.02	ug/mL	124.15	% Recovery	
10	LLS	S1006040030		0 4			Niobium	LIQUID	.1	1.1715E-01			0.03	ug/mL	117.15	% Recovery	
7	LLS	S1006040030		0 1			Phosphorus	LIQUID	.4	3.9349E-01			0.05	ug/mL	98.372	% Recovery	
11	LLS	S1006040030		0 5			Lead	LIQUID	.2	2.0865E-01			0.05	ug/mL	104.32	% Recovery	
9	LLS	S1006040030		0 3			Palladium	LIQUID	1	1.0399E+00			0.1	ug/mL	103.99	% Recovery	
8	LLS	S1006040030		0 2			Praseodymium	LIQUID	.1	1.0173E-01			0.01	ug/mL	101.73	% Recovery	
8	LLS	S1006040030		0 2			Rubidium	LIQUID	1	1.4307E+00			1	ug/mL	143.07	% Recovery	
9	LLS	S1006040030		0 3			Rhodium	LIQUID	.1	7.5080E-02			0.05	ug/mL	75.08	% Recovery	
9	LLS	S1006040030		0 3			Ruthenium	LIQUID	.1	1.0219E-01			0.03	ug/mL	102.19	% Recovery	
7	LLS	S1006040030		0 1			Sulfur	LIQUID	.2	1.5012E-01			0.1	ug/mL	75.06	% Recovery	
7	LLS	S1006040030		0 1			Antimony	LIQUID	.1	9.1830E-02			0.05	ug/mL	91.83	% Recovery	
11	LLS	S1006040030		0 5			Selenium	LIQUID	.2	1.7615E-01			0.1	ug/mL	88.075	% Recovery	
7	LLS	S1006040030		0 1			Silicon	LIQUID	.1	9.6290E-02			0.03	ug/mL	96.29	% Recovery	
6	LLS	S1006040030		0 0			Samarium	LIQUID	.1	1.0133E-01			0.02	ug/mL	101.33	% Recovery	
10	LLS	S1006040030		0 4			Tin	LIQUID	.1	1.0959E-01			0.03	ug/mL	109.59	% Recovery	
6	LLS	S1006040030		0 0			Strontium	LIQUID	.02	2.0350E-02			3.00E-03	ug/mL	101.75	% Recovery	
10	LLS	S1006040030		0 4			Tantalum	LIQUID	1	9.4707E-01			0.05	ug/mL	94.707	% Recovery	
10	LLS	S1006040030		0 4			Tellurium	LIQUID	1	9.3213E-01			0.1	ug/mL	93.213	% Recovery	
8	LLS	S1006040030		0 2			Thorium	LIQUID	.1	9.7520E-02			0.05	ug/mL	97.52	% Recovery	
7	LLS	S1006040030		0 1			Titanium	LIQUID	.02	2.0080E-02			5.00E-03	ug/mL	100.4	% Recovery	
11	LLS	S1006040030		0 5			Thallium	LIQUID	.4	3.7032E-01			0.1	ug/mL	92.58	% Recovery	
7	LLS	S1006040030		0 1			Uranium	LIQUID	.5	5.2908E-01			0.1	ug/mL	105.82	% Recovery	
7	LLS	S1006040030		0 1			Vanadium	LIQUID	.05	5.0300E-02			5.00E-03	ug/mL	100.6	% Recovery	
10	LLS	S1006040030		0 4			Tungsten	LIQUID	1	1.0022E+00			0.2	ug/mL	100.22	% Recovery	
8	LLS	S1006040030		0 2			Yttrium	LIQUID	.1	1.0102E-01			2.00E-03	ug/mL	101.02	% Recovery	
7	LLS	S1006040030		0 1			Zinc	LIQUID	.02	1.7970E-02			5.00E-03	ug/mL	89.85	% Recovery	
7	LLS	S1006040030		0 1			Zirconium	LIQUID	.02	1.9100E-02			5.00E-03	ug/mL	95.5	% Recovery	
Sample Sequence 12																	
12	ICB	S1006040029		0 0			Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Aluminum	LIQUID		<3.0000E-02			0.03	ug/mL			
12	ICB	S1006040029		0 0			Arsenic	LIQUID		<5.0000E-02			0.05	ug/mL			
12	ICB	S1006040029		0 0			Boron	LIQUID		<3.0000E-02			0.03	ug/mL			
12	ICB	S1006040029		0 0			Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL			
12	ICB	S1006040029		0 0			Calcium	LIQUID		<5.0000E-02			0.05	ug/mL			
12	ICB	S1006040029		0 0			Cadmium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL			
12	ICB	S1006040029		0 0			Cobalt	LIQUID		<1.0000E-02			0.01	ug/mL			
12	ICB	S1006040029		0 0			Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL			

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* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
12	ICB	S1006040029		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Iron	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL			
12	ICB	S1006040029		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Magnesium	LIQUID		<5.0000E-02			0.05	ug/mL			
12	ICB	S1006040029		0 0			Manganese	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL			
12	ICB	S1006040029		0 0			Sodium	LIQUID		<1.0000E-01			0.1	ug/mL			
12	ICB	S1006040029		0 0			Neodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
12	ICB	S1006040029		0 0			Nickel	LIQUID		<2.0000E-02			0.02	ug/mL			
12	ICB	S1006040029		0 0			Niobium	LIQUID		<3.0000E-02			0.03	ug/mL			
12	ICB	S1006040029		0 0			Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL			
12	ICB	S1006040029		0 0			Lead	LIQUID		<5.0000E-02			0.05	ug/mL			
12	ICB	S1006040029		0 0			Palladium	LIQUID		1.0151E-01			0.1	ug/mL			
12	ICB	S1006040029		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
12	ICB	S1006040029		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL			
12	ICB	S1006040029		0 0			Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL			
12	ICB	S1006040029		0 0			Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL			
12	ICB	S1006040029		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL			
12	ICB	S1006040029		0 0			Antimony	LIQUID		<5.0000E-02			0.05	ug/mL			
12	ICB	S1006040029		0 0			Selenium	LIQUID		<1.0000E-01			0.1	ug/mL			
12	ICB	S1006040029		0 0			Silicon	LIQUID		<3.0000E-02			0.03	ug/mL			
12	ICB	S1006040029		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL			
12	ICB	S1006040029		0 0			Tin	LIQUID		<3.0000E-02			0.03	ug/mL			
12	ICB	S1006040029		0 0			Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL			
12	ICB	S1006040029		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL			
12	ICB	S1006040029		0 0			Thorium	LIQUID		<5.0000E-02			0.05	ug/mL			
12	ICB	S1006040029		0 0			Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Thallium	LIQUID		<1.0000E-01			0.1	ug/mL			
12	ICB	S1006040029		0 0			Uranium	LIQUID		<1.0000E-01			0.1	ug/mL			
12	ICB	S1006040029		0 0			Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Tungsten	LIQUID		<2.0000E-01			0.2	ug/mL			
12	ICB	S1006040029		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Zinc	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	ICB	S1006040029		0 0			Zirconium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
Sample Sequence 13																	
13	ICSA	S1006040031		0 0			Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Aluminum	LIQUID	200	1.9927E+02			0.03	ug/mL	99.636	% Recovery	
13	ICSA	S1006040031		0 0			Arsenic	LIQUID		1.1996E-01			0.05	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Boron	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
13	ICSA	S1006040031		0 0			Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Calcium	LIQUID	200	2.0757E+02			0.05	ug/mL	103.78	% Recovery	
13	ICSA	S1006040031		0 0			Cadmium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Cobalt	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Iron	LIQUID	200	1.9384E+02			5.00E-03	ug/mL	96.921	% Recovery	
13	ICSA	S1006040031		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Magnesium	LIQUID	200	1.9988E+02			0.05	ug/mL	99.942	% Recovery	
13	ICSA	S1006040031		0 0			Manganese	LIQUID		1.1400E-02			3.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Sodium	LIQUID	200	1.9999E+02			0.1	ug/mL	99.997	% Recovery	
13	ICSA	S1006040031		0 0			Neodymium	LIQUID		1.8930E-02			0.01	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Nickel	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Niobium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Lead	LIQUID		5.0650E-02			0.05	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Palladium	LIQUID		1.2341E-01			0.1	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Antimony	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Selenium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Silicon	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Tin	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Thorium	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Thallium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Uranium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
13	ICSA	S1006040031		0 0			Tungsten	LIQUID		9.0729E-01			0.2	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Zinc	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
13	ICSA	S1006040031		0 0			Zirconium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
Sample Sequence 14																	
14	ICSAB	S1006040032		0 0			Silver	LIQUID	1	9.5844E-01			5.00E-03	ug/mL	95.844	% Recovery	
14	ICSAB	S1006040032		0 0			Aluminum	LIQUID	200	1.9521E+02			0.03	ug/mL	97.604	% Recovery	
14	ICSAB	S1006040032		0 0			Arsenic	LIQUID	5	4.9417E+00			0.05	ug/mL	98.834	% Recovery	
14	ICSAB	S1006040032		0 0			Boron	LIQUID	1	9.8224E-01			0.03	ug/mL	98.224	% Recovery	
14	ICSAB	S1006040032		0 0			Barium	LIQUID	1	9.5072E-01			3.00E-03	ug/mL	95.072	% Recovery	
14	ICSAB	S1006040032		0 0			Beryllium	LIQUID	.1	8.9720E-02			1.00E-03	ug/mL	89.72	% Recovery	
14	ICSAB	S1006040032		0 0			Bismuth	LIQUID	5	5.0839E+00			0.1	ug/mL	101.68	% Recovery	
14	ICSAB	S1006040032		0 0			Calcium	LIQUID	200	2.0173E+02			0.05	ug/mL	100.86	% Recovery	
14	ICSAB	S1006040032		0 0			Cadmium	LIQUID	.2	1.9370E-01			5.00E-03	ug/mL	96.85	% Recovery	
14	ICSAB	S1006040032		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Cobalt	LIQUID	5	4.8006E+00			0.01	ug/mL	96.012	% Recovery	
14	ICSAB	S1006040032		0 0			Chromium	LIQUID	5	4.7928E+00			5.00E-03	ug/mL	95.857	% Recovery	
14	ICSAB	S1006040032		0 0			Copper	LIQUID	5	4.8340E+00			5.00E-03	ug/mL	96.68	% Recovery	
14	ICSAB	S1006040032		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Iron	LIQUID	200	1.8995E+02			5.00E-03	ug/mL	94.975	% Recovery	
14	ICSAB	S1006040032		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Lithium	LIQUID	1	9.7474E-01			3.00E-03	ug/mL	97.474	% Recovery	
14	ICSAB	S1006040032		0 0			Magnesium	LIQUID	200	1.9409E+02			0.05	ug/mL	97.046	% Recovery	
14	ICSAB	S1006040032		0 0			Manganese	LIQUID	5	4.8517E+00			3.00E-03	ug/mL	97.034	% Recovery	
14	ICSAB	S1006040032		0 0			Molybdenum	LIQUID	5	4.7517E+00			0.02	ug/mL	95.035	% Recovery	
14	ICSAB	S1006040032		0 0			Sodium	LIQUID	200	1.9696E+02			0.1	ug/mL	98.479	% Recovery	
14	ICSAB	S1006040032		0 0			Neodymium	LIQUID		1.6625E-01			0.01	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Nickel	LIQUID	5	4.7316E+00			0.02	ug/mL	94.631	% Recovery	
14	ICSAB	S1006040032		0 0			Niobium	LIQUID	5	4.3713E+00			0.03	ug/mL	87.425	% Recovery	
14	ICSAB	S1006040032		0 0			Phosphorus	LIQUID	1	1.0027E+00			0.05	ug/mL	100.27	% Recovery	
15	ICSAB	S1006040032		0 1			Lead	LIQUID	1	1.1681E+00			0.05	ug/mL	116.81	% Recovery	
14	ICSAB	S1006040032		0 0			Palladium	LIQUID		1.4119E+00			0.1	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Rhodium	LIQUID	1	9.1460E-01			0.05	ug/mL	91.46	% Recovery	
14	ICSAB	S1006040032		0 0			Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Antimony	LIQUID	5	4.9581E+00			0.05	ug/mL	99.162	% Recovery	
14	ICSAB	S1006040032		0 0			Selenium	LIQUID	5	5.0496E+00			0.1	ug/mL	100.99	% Recovery	
14	ICSAB	S1006040032		0 0			Silicon	LIQUID	5	4.8116E+00			0.03	ug/mL	96.232	% Recovery	
14	ICSAB	S1006040032		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		

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* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
14	ICSAB	S1006040032		0 0			Tin	LIQUID	1	8.6717E-01			0.03	ug/mL	86.717	% Recovery	
14	ICSAB	S1006040032		0 0			Strontium	LIQUID	1	9.6579E-01			3.00E-03	ug/mL	96.579	% Recovery	
14	ICSAB	S1006040032		0 0			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Thorium	LIQUID	5	4.6700E+00			0.05	ug/mL	93.4	% Recovery	
14	ICSAB	S1006040032		0 0			Titanium	LIQUID	50	4.7649E+01			5.00E-03	ug/mL	95.299	% Recovery	
14	ICSAB	S1006040032		0 0			Thallium	LIQUID	5	4.5065E+00			0.1	ug/mL	90.13	% Recovery	
14	ICSAB	S1006040032		0 0			Uranium	LIQUID	5	4.7840E+00			0.1	ug/mL	95.68	% Recovery	
14	ICSAB	S1006040032		0 0			Vanadium	LIQUID	1	9.7207E-01			5.00E-03	ug/mL	97.207	% Recovery	
14	ICSAB	S1006040032		0 0			Tungsten	LIQUID	5	5.7561E+00			0.2	ug/mL	115.12	% Recovery	
14	ICSAB	S1006040032		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL	N/A		
14	ICSAB	S1006040032		0 0			Zinc	LIQUID	5	4.7607E+00			5.00E-03	ug/mL	95.215	% Recovery	
14	ICSAB	S1006040032		0 0			Zirconium	LIQUID	5	4.4620E+00			5.00E-03	ug/mL	89.24	% Recovery	
Sample Sequence 16																	
16	BLNK-PREP	S1004280001		0 0	A		Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Aluminum	LIQUID		<3.0000E-02			0.03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Arsenic	LIQUID		<5.0000E-02			0.05	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Boron	LIQUID		<3.0000E-02			0.03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Calcium	LIQUID		5.8626E-01			0.05	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Cadmium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Cerium	LIQUID		<3.0000E-02			0.03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Cobalt	LIQUID		<1.0000E-02			0.01	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Iron	LIQUID		2.2790E-02			5.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A	*	Potassium	LIQUID		6.4967E-01			0.5	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Magnesium	LIQUID		<5.0000E-02			0.05	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Manganese	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Sodium	LIQUID		<1.0000E-01			0.1	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Neodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Nickel	LIQUID		<2.0000E-02			0.02	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Niobium	LIQUID		<3.0000E-02			0.03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Lead	LIQUID		<5.0000E-02			0.05	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Palladium	LIQUID		<1.0000E-01			0.1	ug/mL			

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
16	BLNK-PREP	S1004280001		0 0	A		Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Rubidium	LIQUID		<1.0000E+00			1	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Antimony	LIQUID		<5.0000E-02			0.05	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Selenium	LIQUID		<1.0000E-01			0.1	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Silicon	LIQUID		<3.0000E-02			0.03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Samarium	LIQUID		<2.0000E-02			0.02	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Tin	LIQUID		<3.0000E-02			0.03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Thorium	LIQUID		<5.0000E-02			0.05	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Thallium	LIQUID		<1.0000E-01			0.1	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Uranium	LIQUID		<1.0000E-01			0.1	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Tungsten	LIQUID		<2.0000E-01			0.2	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Zinc	LIQUID		9.3200E-03			5.00E-03	ug/mL			
16	BLNK-PREP	S1004280001		0 0	A		Zirconium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
Sample Sequence 17																	
17	STD-PREP	S1004280002		0 0	A		Silver	LIQUID	1	8.7200E-01			5.00E-03	ug/mL	87.2	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Aluminum	LIQUID	5	4.6991E+00			0.03	ug/mL	93.983	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Arsenic	LIQUID	5	4.6551E+00			0.05	ug/mL	93.102	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Boron	LIQUID	5	4.5617E+00			0.03	ug/mL	91.234	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Barium	LIQUID	5	4.8305E+00			3.00E-03	ug/mL	96.609	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Beryllium	LIQUID	5	5.0155E+00			1.00E-03	ug/mL	100.31	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Bismuth	LIQUID	5	4.5879E+00			0.1	ug/mL	91.758	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Calcium	LIQUID	5	4.5643E+00			0.05	ug/mL	91.286	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Cadmium	LIQUID	5	4.6502E+00			5.00E-03	ug/mL	93.005	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Cobalt	LIQUID	5	4.6940E+00			0.01	ug/mL	93.879	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Chromium	LIQUID	5	4.6974E+00			5.00E-03	ug/mL	93.948	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Copper	LIQUID	5	4.7630E+00			5.00E-03	ug/mL	95.261	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Iron	LIQUID	5	4.6916E+00			5.00E-03	ug/mL	93.832	% Recovery	
17	STD-PREP	S1004280002		0 0	A	*	Potassium	LIQUID	5	5.2185E+00			0.5	ug/mL	104.37	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Lanthanum	LIQUID	5	4.8162E+00			3.00E-03	ug/mL	96.325	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Lithium	LIQUID	5	5.0095E+00			3.00E-03	ug/mL	100.19	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Magnesium	LIQUID	5	4.6126E+00			0.05	ug/mL	92.252	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Manganese	LIQUID	5	4.6662E+00			3.00E-03	ug/mL	93.324	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Molybdenum	LIQUID	5	4.6935E+00			0.02	ug/mL	93.87	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
17	STD-PREP	S1004280002		0 0	A		Sodium	LIQUID	5	4.9035E+00			0.1	ug/mL	98.069	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Nickel	LIQUID	5	4.6411E+00			0.02	ug/mL	92.821	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Phosphorus	LIQUID	5	4.6963E+00			0.05	ug/mL	93.927	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Lead	LIQUID	5	4.7596E+00			0.05	ug/mL	95.192	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Sulfur	LIQUID	5	4.7374E+00			0.1	ug/mL	94.748	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Antimony	LIQUID	5	4.5863E+00			0.05	ug/mL	91.727	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Selenium	LIQUID	5	4.8520E+00			0.1	ug/mL	97.041	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Silicon	LIQUID	5	4.2513E+00			0.03	ug/mL	85.026	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Strontium	LIQUID	5	4.8133E+00			3.00E-03	ug/mL	96.266	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Titanium	LIQUID	5	4.6932E+00			5.00E-03	ug/mL	93.863	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Vanadium	LIQUID	5	4.7968E+00			5.00E-03	ug/mL	95.935	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Zinc	LIQUID	5	4.6336E+00			5.00E-03	ug/mL	92.673	% Recovery	
17	STD-PREP	S1004280002		0 0	A		Zirconium	LIQUID	5	4.6402E+00			5.00E-03	ug/mL	92.803	% Recovery	
Sample Sequence 18																	
18	STD-PREP	S1004280005		0 0	A		Cerium	LIQUID	5	4.9048E+00			0.03	ug/mL	98.095	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Europium	LIQUID	5	4.6770E+00			5.00E-03	ug/mL	93.541	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Neodymium	LIQUID	5	4.6752E+00			0.01	ug/mL	93.503	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Niobium	LIQUID	5	4.5096E+00			0.03	ug/mL	90.192	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Palladium	LIQUID	5	4.0249E+00			0.1	ug/mL	80.499	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Praseodymium	LIQUID	5	4.9140E+00			0.01	ug/mL	98.281	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Rhodium	LIQUID	5	4.5381E+00			0.05	ug/mL	90.763	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Ruthenium	LIQUID	5	4.3490E+00			0.03	ug/mL	86.98	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Samarium	LIQUID	5	4.8460E+00			0.02	ug/mL	96.919	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Tin	LIQUID	5	4.2566E+00			0.03	ug/mL	85.132	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Tantalum	LIQUID	5	4.3573E+00			0.05	ug/mL	87.146	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Tellurium	LIQUID	5	4.4655E+00			0.1	ug/mL	89.309	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Thorium	LIQUID	5	4.5423E+00			0.05	ug/mL	90.846	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Thallium	LIQUID	5	4.5768E+00			0.1	ug/mL	91.537	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Uranium	LIQUID	5	5.2572E+00			0.1	ug/mL	105.14	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Tungsten	LIQUID	5	4.4272E+00			0.2	ug/mL	88.544	% Recovery	
18	STD-PREP	S1004280005		0 0	A		Yttrium	LIQUID	5	4.5831E+00			2.00E-03	ug/mL	91.662	% Recovery	
Sample Sequence 19																	
19	SERDIL	S1006040033	S10V000420	0 0			Aluminum	SOLID		6.6361E+03			16.413	ug/g	.90947	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Arsenic	SOLID		<3.2826E+01			32.826	ug/g	N/A		
19	SERDIL	S1006040033	S10V000420	0 0			Barium	SOLID		8.8022E+01			1.6413	ug/g	1.9772	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Beryllium	SOLID		<5.4709E-01			0.54709	ug/g	N/A		
19	SERDIL	S1006040033	S10V000420	0 0			Bismuth	SOLID		<5.4709E+01			54.709	ug/g	N/A		
19	SERDIL	S1006040033	S10V000420	0 0			Calcium	SOLID		1.1353E+04			27.355	ug/g	.87912	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Cadmium	SOLID		<2.7355E+00			2.7355	ug/g	N/A		
19	SERDIL	S1006040033	S10V000420	0 0			Cerium	SOLID		2.8611E+01			16.413	ug/g	21.034	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Cobalt	SOLID		1.0764E+01			5.4709	ug/g	41.955	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Chromium	SOLID		7.2797E+00			2.7355	ug/g	.92761	% Diff	

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
19	SERDIL	S1006040033	S10V000420	0 0			Copper	SOLID		1.2847E+01			2.7355	ug/g	11.68	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Iron	SOLID		1.9468E+04			2.7355	ug/g	2.5482	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Potassium	SOLID		1.4451E+03			273.55	ug/g	25.251	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Lanthanum	SOLID		1.0276E+01			1.6413	ug/g	2.6181	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Lithium	SOLID		7.7508E+00			1.6413	ug/g	6.54	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Magnesium	SOLID		4.9314E+03			27.355	ug/g	.72629	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Manganese	SOLID		3.5470E+02			1.6413	ug/g	1.8832	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Molybdenum	SOLID		<1.0942E+01			10.942	ug/g	N/A		
19	SERDIL	S1006040033	S10V000420	0 0			Sodium	SOLID		1.9011E+02			54.709	ug/g	4.7212	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Neodymium	SOLID		1.8632E+01			5.4709	ug/g	15.468	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Nickel	SOLID		1.6504E+01			10.942	ug/g	56.032	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Phosphorus	SOLID		8.9424E+02			27.355	ug/g	3.7808	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Lead	SOLID		<2.7355E+01			27.355	ug/g	N/A		
19	SERDIL	S1006040033	S10V000420	0 0			Palladium	SOLID		8.8078E+01			54.709	ug/g	131.61	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Praseodymium	SOLID		<5.4709E+00			5.4709	ug/g	N/A		
19	SERDIL	S1006040033	S10V000420	0 0			Sulfur	SOLID		<5.4709E+01			54.709	ug/g	N/A		
19	SERDIL	S1006040033	S10V000420	0 0			Silicon	SOLID		1.5059E+02			16.413	ug/g	.65364	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Strontium	SOLID		3.1969E+01			1.6413	ug/g	1.9336	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Titanium	SOLID		9.8807E+02			2.7355	ug/g	2.0497	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Vanadium	SOLID		3.4351E+01			2.7355	ug/g	3.0332	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Tungsten	SOLID		<1.0942E+02			109.42	ug/g	N/A		
19	SERDIL	S1006040033	S10V000420	0 0			Yttrium	SOLID		1.0505E+01			1.0942	ug/g	5.2558	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Zinc	SOLID		3.6049E+01			2.7355	ug/g	.54825	% Diff	
19	SERDIL	S1006040033	S10V000420	0 0			Zirconium	SOLID		4.3857E+00			2.7355	ug/g	2.5924	% Diff	
Sample Sequence 20																	
20	SAMPLE	S10V000420		0 0	A		Aluminum	SOLID	N/A	6.5763E+03			3.2826	ug/g			
20	SAMPLE	S10V000420		0 0	A		Barium	SOLID	N/A	8.6315E+01			0.32826	ug/g			
20	SAMPLE	S10V000420		0 0	A		Beryllium	SOLID	N/A	2.1599E-01			0.10942	ug/g			J
20	SAMPLE	S10V000420		0 0	A		Bismuth	SOLID	N/A	1.2230E+01			10.942	ug/g			J
20	SAMPLE	S10V000420		0 0	A		Calcium	SOLID	N/A	1.1254E+04			5.4709	ug/g			
20	SAMPLE	S10V000420		0 0	A		Cerium	SOLID	N/A	2.3639E+01			3.2826	ug/g			J
20	SAMPLE	S10V000420		0 0	A		Cobalt	SOLID	N/A	7.5824E+00			1.0942	ug/g			J
20	SAMPLE	S10V000420		0 0	A		Chromium	SOLID	N/A	7.3479E+00			0.54709	ug/g			
20	SAMPLE	S10V000420		0 0	A		Copper	SOLID	N/A	1.1503E+01			0.54709	ug/g			
20	SAMPLE	S10V000420		0 0	A		Iron	SOLID	N/A	1.8984E+04			0.54709	ug/g			
20	SAMPLE	S10V000420		0 0	A	*	Potassium	SOLID	N/A	1.1538E+03			54.709	ug/g			
20	SAMPLE	S10V000420		0 0	A		Lanthanum	SOLID	N/A	1.0014E+01			0.32826	ug/g			
20	SAMPLE	S10V000420		0 0	A		Lithium	SOLID	N/A	7.2750E+00			0.32826	ug/g			
20	SAMPLE	S10V000420		0 0	A		Magnesium	SOLID	N/A	4.8958E+03			5.4709	ug/g			
20	SAMPLE	S10V000420		0 0	A		Manganese	SOLID	N/A	3.4814E+02			0.32826	ug/g			
20	SAMPLE	S10V000420		0 0	A		Molybdenum	SOLID	N/A	<2.1884E+00			2.1884	ug/g			U
20	SAMPLE	S10V000420		0 0	A		Sodium	SOLID	N/A	1.9953E+02			10.942	ug/g			b

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
20	SAMPLE	S10V000420		0 0	A		Nickel	SOLID	N/A	1.0577E+01			2.1884	ug/g			J
20	SAMPLE	S10V000420		0 0	A		Phosphorus	SOLID	N/A	8.6166E+02			5.4709	ug/g			
20	SAMPLE	S10V000420		0 0	A		Lead	SOLID	N/A	8.9981E+00			5.4709	ug/g			J
20	SAMPLE	S10V000420		0 0	A		Sulfur	SOLID	N/A	6.0061E+01			10.942	ug/g			J
20	SAMPLE	S10V000420		0 0	A		Silicon	SOLID	N/A	1.4961E+02			3.2826	ug/g			b
20	SAMPLE	S10V000420		0 0	A		Strontium	SOLID	N/A	3.1363E+01			0.32826	ug/g			
20	SAMPLE	S10V000420		0 0	A		Titanium	SOLID	N/A	9.6822E+02			0.54709	ug/g			
20	SAMPLE	S10V000420		0 0	A		Vanadium	SOLID	N/A	3.3340E+01			0.54709	ug/g			
20	SAMPLE	S10V000420		0 0	A		Yttrium	SOLID	N/A	9.9800E+00			0.21884	ug/g			
20	SAMPLE	S10V000420		0 0	A		Zinc	SOLID	N/A	3.5852E+01			0.54709	ug/g			
20	SAMPLE	S10V000420		0 0	A		Zirconium	SOLID	N/A	4.2749E+00			0.54709	ug/g			BJb
Sample Sequence 21																	
21	DUP	S1004280003	S10V000420	0 0	A		Aluminum	SOLID	6.5763E+03	6.9251E+03			3.1023	ug/g	5.1673	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Barium	SOLID	8.6315E+01	8.7253E+01			0.31023	ug/g	1.0805	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Beryllium	SOLID	2.1599E-01	2.0795E-01			0.10341	ug/g	3.7942	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Calcium	SOLID	1.1254E+04	1.1844E+04			5.1704	ug/g	5.1119	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Cobalt	SOLID	7.5824E+00	8.7039E+00			1.0341	ug/g	13.772	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Chromium	SOLID	7.3479E+00	7.6474E+00			0.51704	ug/g	3.9945	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Copper	SOLID	1.1503E+01	1.2102E+01			0.51704	ug/g	5.0735	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Iron	SOLID	1.8984E+04	1.9343E+04			0.51704	ug/g	1.8751	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A	*	Potassium	SOLID	1.1538E+03	1.2292E+03			51.704	ug/g			
21	DUP	S1004280003	S10V000420	0 0	A		Lithium	SOLID	7.2750E+00	7.6587E+00			0.31023	ug/g	5.1382	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Magnesium	SOLID	4.8958E+03	4.9784E+03			5.1704	ug/g	1.6732	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Manganese	SOLID	3.4814E+02	3.4083E+02			0.31023	ug/g	2.1218	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Molybdenum	SOLID	<2.1884E+00	<2.0682E+00			2.0682	ug/g			
21	DUP	S1004280003	S10V000420	0 0	A		Sodium	SOLID	1.9953E+02	2.0731E+02			10.341	ug/g	3.8225	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Nickel	SOLID	1.0577E+01	1.0976E+01			2.0682	ug/g	3.7049	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Phosphorus	SOLID	8.6166E+02	9.1168E+02			5.1704	ug/g	5.6418	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Lead	SOLID	8.9981E+00	8.7574E+00			5.1704	ug/g	2.7107	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Strontium	SOLID	3.1363E+01	3.4460E+01			0.31023	ug/g	9.4110	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Vanadium	SOLID	3.3340E+01	3.3916E+01			0.51704	ug/g	1.7138	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Zinc	SOLID	3.5852E+01	3.7560E+01			0.51704	ug/g	4.6531	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Bismuth	SOLID	1.2230E+01	<1.0341E+01			10.341	ug/g			
21	DUP	S1004280003	S10V000420	0 0	A		Cerium	SOLID	2.3639E+01	2.1340E+01			3.1023	ug/g	10.220	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Lanthanum	SOLID	1.0014E+01	9.8101E+00			0.31023	ug/g	2.0615	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Neodymium	SOLID		1.6865E+01			1.0341	ug/g			
21	DUP	S1004280003	S10V000420	0 0	A		Palladium	SOLID		4.0572E+01			10.341	ug/g			
21	DUP	S1004280003	S10V000420	0 0	A		Sulfur	SOLID	6.0061E+01	6.7205E+01			10.341	ug/g	11.227	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Titanium	SOLID	9.6822E+02	9.9967E+02			0.51704	ug/g	3.1963	% RPD	
21	DUP	S1004280003	S10V000420	0 0	A		Zirconium	SOLID	4.2749E+00	3.3173E+00			0.51704	ug/g	25.225	% RPD	
Sample Sequence 22																	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Aluminum	SOLID	59.4134702	7.7275E+03			3.5648	ug/g	1937.7	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Barium	SOLID	59.4134702	1.4928E+02			0.35648	ug/g	105.97	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Beryllium	SOLID	59.4134702	6.0149E+01			0.11883	ug/g	100.87	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Bismuth	SOLID	59.4134702	7.9969E+01			11.883	ug/g	114.01	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Calcium	SOLID	59.4134702	1.2272E+04			5.9413	ug/g	1712.7	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Cobalt	SOLID	59.4134702	6.9547E+01			1.1883	ug/g	104.29	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Chromium	SOLID	59.4134702	6.9048E+01			0.59413	ug/g	103.85	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Copper	SOLID	59.4134702	7.1459E+01			0.59413	ug/g	100.91	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Iron	SOLID	59.4134702	2.0215E+04			0.59413	ug/g	2072.2	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A	*	Potassium	SOLID	59.4134702	1.3251E+03			59.413	ug/g	N/A		
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Lanthanum	SOLID	59.4134702	6.9307E+01			0.35648	ug/g	99.797	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Lithium	SOLID	59.4134702	6.8372E+01			0.35648	ug/g	102.83	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Magnesium	SOLID	59.4134702	5.5307E+03			5.9413	ug/g	1068.6	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Manganese	SOLID	59.4134702	4.1156E+02			0.35648	ug/g	106.75	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Molybdenum	SOLID	59.4134702	5.5703E+01			2.3765	ug/g	93.755	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Sodium	SOLID	59.4134702	3.4762E+02			11.883	ug/g	249.26	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Neodymium	SOLID	59.4134702	1.7830E+01			1.1883	ug/g	2.8508	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Nickel	SOLID	59.4134702	7.4005E+01			2.3765	ug/g	106.76	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Phosphorus	SOLID	59.4134702	9.2567E+02			5.9413	ug/g	107.73	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Lead	SOLID	59.4134702	7.1125E+01			5.9413	ug/g	104.57	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Sulfur	SOLID	59.4134702	1.2579E+02			11.883	ug/g	110.63	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Silicon	SOLID	59.4134702	2.6615E+02			3.5648	ug/g	196.15	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Strontium	SOLID	59.4134702	9.5387E+01			0.35648	ug/g	107.76	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Titanium	SOLID	59.4134702	1.0689E+03			0.59413	ug/g	169.38	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Vanadium	SOLID	59.4134702	9.6386E+01			0.59413	ug/g	106.11	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Zinc	SOLID	59.4134702	9.7817E+01			0.59413	ug/g	104.29	% Recovery	
22	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Zirconium	SOLID	59.4134702	2.4630E+01			0.59413	ug/g	34.26	% Recovery	
Sample Sequence 23																	
23	SPK-PREDIG	S1004280008	S10V000420	0 0	A		Cerium	SOLID	59.18840855	8.2957E+01			3.5513	ug/g	100.22	% Recovery	
23	SPK-PREDIG	S1004280008	S10V000420	0 0	A		Neodymium	SOLID	59.18840855	7.2680E+01			1.1838	ug/g	95.533	% Recovery	
23	SPK-PREDIG	S1004280008	S10V000420	0 0	A		Palladium	SOLID	59.18840855	1.0577E+02			11.838	ug/g	114.44	% Recovery	
23	SPK-PREDIG	S1004280008	S10V000420	0 0	A		Praseodymium	SOLID	59.18840855	6.1180E+01			1.1838	ug/g	N/A		
23	SPK-PREDIG	S1004280008	S10V000420	0 0	A		Yttrium	SOLID	59.18840855	6.6492E+01			0.23675	ug/g	95.478	% Recovery	
Sample Sequence 24																	
24	CCV	S1006040035		0 0			Silver	LIQUID	1	9.6019E-01			5.00E-03	ug/mL	96.019	% Recovery	
24	CCV	S1006040035		0 0			Aluminum	LIQUID	5	4.9554E+00			0.03	ug/mL	99.107	% Recovery	
24	CCV	S1006040035		0 0			Arsenic	LIQUID	5	4.9587E+00			0.05	ug/mL	99.174	% Recovery	
24	CCV	S1006040035		0 0			Boron	LIQUID	5	4.9576E+00			0.03	ug/mL	99.152	% Recovery	
24	CCV	S1006040035		0 0			Barium	LIQUID	5	4.9273E+00			3.00E-03	ug/mL	98.546	% Recovery	
24	CCV	S1006040035		0 0			Beryllium	LIQUID	5	4.9455E+00			1.00E-03	ug/mL	98.91	% Recovery	
24	CCV	S1006040035		0 0			Bismuth	LIQUID	5	5.0511E+00			0.1	ug/mL	101.02	% Recovery	
24	CCV	S1006040035		0 0			Calcium	LIQUID	5	5.0195E+00			0.05	ug/mL	100.39	% Recovery	
24	CCV	S1006040035		0 0			Cadmium	LIQUID	5	5.0426E+00			5.00E-03	ug/mL	100.85	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
25	CCV	S1006040035		0 1			Cerium	LIQUID	5	5.0825E+00			0.03	ug/mL	101.65	% Recovery	
24	CCV	S1006040035		0 0			Cobalt	LIQUID	5	5.0849E+00			0.01	ug/mL	101.7	% Recovery	
24	CCV	S1006040035		0 0			Chromium	LIQUID	5	5.0772E+00			5.00E-03	ug/mL	101.54	% Recovery	
24	CCV	S1006040035		0 0			Copper	LIQUID	5	4.8910E+00			5.00E-03	ug/mL	97.821	% Recovery	
25	CCV	S1006040035		0 1			Europium	LIQUID	5	4.8301E+00			5.00E-03	ug/mL	96.602	% Recovery	
24	CCV	S1006040035		0 0			Iron	LIQUID	5	5.0130E+00			5.00E-03	ug/mL	100.26	% Recovery	
24	CCV	S1006040035		0 0			Potassium	LIQUID	5	5.4314E+00			0.5	ug/mL	108.63	% Recovery	
24	CCV	S1006040035		0 0			Lanthanum	LIQUID	5	4.9205E+00			3.00E-03	ug/mL	98.411	% Recovery	
24	CCV	S1006040035		0 0			Lithium	LIQUID	5	4.9078E+00			3.00E-03	ug/mL	98.155	% Recovery	
24	CCV	S1006040035		0 0			Magnesium	LIQUID	5	4.8854E+00			0.05	ug/mL	97.707	% Recovery	
24	CCV	S1006040035		0 0			Manganese	LIQUID	5	5.0230E+00			3.00E-03	ug/mL	100.46	% Recovery	
24	CCV	S1006040035		0 0			Molybdenum	LIQUID	5	5.0310E+00			0.02	ug/mL	100.62	% Recovery	
24	CCV	S1006040035		0 0			Sodium	LIQUID	5	4.9302E+00			0.1	ug/mL	98.604	% Recovery	
25	CCV	S1006040035		0 1			Neodymium	LIQUID	5	4.7252E+00			0.01	ug/mL	94.504	% Recovery	
24	CCV	S1006040035		0 0			Nickel	LIQUID	5	5.0457E+00			0.02	ug/mL	100.91	% Recovery	
26	CCV	S1006040035		0 2			Niobium	LIQUID	5	4.9174E+00			0.03	ug/mL	98.347	% Recovery	
24	CCV	S1006040035		0 0			Phosphorus	LIQUID	5	5.0188E+00			0.05	ug/mL	100.38	% Recovery	
24	CCV	S1006040035		0 0			Lead	LIQUID	5	5.2253E+00			0.05	ug/mL	104.51	% Recovery	
25	CCV	S1006040035		0 1			Palladium	LIQUID	5	4.7707E+00			0.1	ug/mL	95.414	% Recovery	
25	CCV	S1006040035		0 1			Praseodymium	LIQUID	5	5.0174E+00			0.01	ug/mL	100.35	% Recovery	
25	CCV	S1006040035		0 1			Rubidium	LIQUID	5	5.8552E+00			1	ug/mL	117.1	% Recovery	
25	CCV	S1006040035		0 1			Rhodium	LIQUID	5	4.7406E+00			0.05	ug/mL	94.811	% Recovery	
25	CCV	S1006040035		0 1			Ruthenium	LIQUID	5	5.0782E+00			0.03	ug/mL	101.56	% Recovery	
24	CCV	S1006040035		0 0			Sulfur	LIQUID	5	5.0012E+00			0.1	ug/mL	100.02	% Recovery	
24	CCV	S1006040035		0 0			Antimony	LIQUID	5	4.9158E+00			0.05	ug/mL	98.316	% Recovery	
24	CCV	S1006040035		0 0			Selenium	LIQUID	5	5.0927E+00			0.1	ug/mL	101.85	% Recovery	
24	CCV	S1006040035		0 0			Silicon	LIQUID	5	4.7507E+00			0.03	ug/mL	95.013	% Recovery	
25	CCV	S1006040035		0 1			Samarium	LIQUID	5	5.0001E+00			0.02	ug/mL	100	% Recovery	
26	CCV	S1006040035		0 2			Tin	LIQUID	5	5.0624E+00			0.03	ug/mL	101.25	% Recovery	
24	CCV	S1006040035		0 0			Strontium	LIQUID	5	4.9304E+00			3.00E-03	ug/mL	98.607	% Recovery	
26	CCV	S1006040035		0 2			Tantalum	LIQUID	5	4.7002E+00			0.05	ug/mL	94.005	% Recovery	
26	CCV	S1006040035		0 2			Tellurium	LIQUID	5	4.8400E+00			0.1	ug/mL	96.8	% Recovery	
25	CCV	S1006040035		0 1			Thorium	LIQUID	5	5.0914E+00			0.05	ug/mL	101.83	% Recovery	
24	CCV	S1006040035		0 0			Titanium	LIQUID	5	4.9295E+00			5.00E-03	ug/mL	98.591	% Recovery	
25	CCV	S1006040035		0 1			Thallium	LIQUID	5	5.1141E+00			0.1	ug/mL	102.28	% Recovery	
25	CCV	S1006040035		0 1			Uranium	LIQUID	5	5.0581E+00			0.1	ug/mL	101.16	% Recovery	
24	CCV	S1006040035		0 0			Vanadium	LIQUID	5	5.1098E+00			5.00E-03	ug/mL	102.2	% Recovery	
26	CCV	S1006040035		0 2			Tungsten	LIQUID	5	4.8388E+00			0.2	ug/mL	96.775	% Recovery	
25	CCV	S1006040035		0 1			Yttrium	LIQUID	5	4.9401E+00			2.00E-03	ug/mL	98.802	% Recovery	
24	CCV	S1006040035		0 0			Zinc	LIQUID	5	5.0389E+00			5.00E-03	ug/mL	100.78	% Recovery	
24	CCV	S1006040035		0 0			Zirconium	LIQUID	5	4.8514E+00			5.00E-03	ug/mL	97.028	% Recovery	

Sample Sequence 27

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
27	CCB	S1006040036		0 0			Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Aluminum	LIQUID		<3.0000E-02			0.03	ug/mL			
27	CCB	S1006040036		0 0			Arsenic	LIQUID		<5.0000E-02			0.05	ug/mL			
27	CCB	S1006040036		0 0			Boron	LIQUID		<3.0000E-02			0.03	ug/mL			
27	CCB	S1006040036		0 0			Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL			
27	CCB	S1006040036		0 0			Calcium	LIQUID		<5.0000E-02			0.05	ug/mL			
27	CCB	S1006040036		0 0			Cadmium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL			
27	CCB	S1006040036		0 0			Cobalt	LIQUID		<1.0000E-02			0.01	ug/mL			
27	CCB	S1006040036		0 0			Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Iron	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Potassium	LIQUID		5.2200E-01			0.5	ug/mL			
27	CCB	S1006040036		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Magnesium	LIQUID		<5.0000E-02			0.05	ug/mL			
27	CCB	S1006040036		0 0			Manganese	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL			
27	CCB	S1006040036		0 0			Sodium	LIQUID		<1.0000E-01			0.1	ug/mL			
27	CCB	S1006040036		0 0			Neodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
27	CCB	S1006040036		0 0			Nickel	LIQUID		<2.0000E-02			0.02	ug/mL			
27	CCB	S1006040036		0 0			Niobium	LIQUID		<3.0000E-02			0.03	ug/mL			
27	CCB	S1006040036		0 0			Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL			
27	CCB	S1006040036		0 0			Lead	LIQUID		<5.0000E-02			0.05	ug/mL			
27	CCB	S1006040036		0 0			Palladium	LIQUID		1.5270E-01			0.1	ug/mL			
27	CCB	S1006040036		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
27	CCB	S1006040036		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL			
27	CCB	S1006040036		0 0			Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL			
27	CCB	S1006040036		0 0			Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL			
27	CCB	S1006040036		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL			
27	CCB	S1006040036		0 0			Antimony	LIQUID		<5.0000E-02			0.05	ug/mL			
27	CCB	S1006040036		0 0			Selenium	LIQUID		<1.0000E-01			0.1	ug/mL			
27	CCB	S1006040036		0 0			Silicon	LIQUID		<3.0000E-02			0.03	ug/mL			
27	CCB	S1006040036		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL			
27	CCB	S1006040036		0 0			Tin	LIQUID		<3.0000E-02			0.03	ug/mL			
27	CCB	S1006040036		0 0			Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL			
27	CCB	S1006040036		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL			
27	CCB	S1006040036		0 0			Thorium	LIQUID		<5.0000E-02			0.05	ug/mL			

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
27	CCB	S1006040036		0 0			Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Thallium	LIQUID		<1.0000E-01			0.1	ug/mL			
27	CCB	S1006040036		0 0			Uranium	LIQUID		<1.0000E-01			0.1	ug/mL			
27	CCB	S1006040036		0 0			Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Tungsten	LIQUID		<2.0000E-01			0.2	ug/mL			
27	CCB	S1006040036		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Zinc	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
27	CCB	S1006040036		0 0			Zirconium	LIQUID		5.6500E-03			5.00E-03	ug/mL			
Sample Sequence 28																	
28	SPK-POST	S1006040034	S10V000420	0 0			Barium	SOLID	100	1.0138E+02			3.00E-03	ug/g	93.487	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Beryllium	SOLID	100	9.1056E+01			1.00E-03	ug/g	91.036	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Bismuth	SOLID	100	9.6865E+01			0.1	ug/g	95.748	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Cadmium	SOLID	100	9.3872E+01			5.00E-03	ug/g	N/A		
28	SPK-POST	S1006040034	S10V000420	0 0			Cerium	SOLID	100	9.5057E+01			0.03	ug/g	92.897	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Cobalt	SOLID	100	9.4309E+01			0.01	ug/g	93.616	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Chromium	SOLID	100	9.5175E+01			5.00E-03	ug/g	94.503	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Copper	SOLID	100	9.4424E+01			5.00E-03	ug/g	93.373	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Lanthanum	SOLID	100	9.2275E+01			3.00E-03	ug/g	91.36	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Lithium	SOLID	100	9.2237E+01			3.00E-03	ug/g	91.573	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Magnesium	SOLID	100	5.2373E+02			0.05	ug/g	76.295	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Manganese	SOLID	100	1.2631E+02			3.00E-03	ug/g	94.495	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Molybdenum	SOLID	100	9.3159E+01			0.02	ug/g	93.159	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Sodium	SOLID	100	1.1078E+02			0.1	ug/g	92.545	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Neodymium	SOLID	100	9.2151E+01			0.01	ug/g	90.676	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Nickel	SOLID	100	9.3535E+01			0.02	ug/g	92.569	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Phosphorus	SOLID	100	1.6981E+02			0.05	ug/g	91.06	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Lead	SOLID	100	9.6495E+01			0.05	ug/g	95.673	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Sulfur	SOLID	100	1.0154E+02			0.1	ug/g	96.05	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Silicon	SOLID	100	1.0129E+02			0.03	ug/g	87.615	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Strontium	SOLID	100	9.5256E+01			3.00E-03	ug/g	92.39	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Titanium	SOLID	100	1.7871E+02			5.00E-03	ug/g	90.226	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Vanadium	SOLID	100	9.6712E+01			5.00E-03	ug/g	93.665	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Zinc	SOLID	100	9.6048E+01			5.00E-03	ug/g	92.771	% Recovery	
28	SPK-POST	S1006040034	S10V000420	0 0			Zirconium	SOLID	100	8.8426E+01			5.00E-03	ug/g	88.035	% Recovery	
Sample Sequence 29																	
29	SPK-POST	S1006040042	S10V000420	0 0			Cerium	SOLID	100	9.8010E+01			0.03	ug/g	95.85	% Recovery	
29	SPK-POST	S1006040042	S10V000420	0 0			Neodymium	SOLID	100	9.0513E+01			0.01	ug/g	89.038	% Recovery	
29	SPK-POST	S1006040042	S10V000420	0 0			Palladium	SOLID	100	9.5133E+01			0.1	ug/g	91.657	% Recovery	
29	SPK-POST	S1006040042	S10V000420	0 0			Praseodymium	SOLID	100	9.4540E+01			0.01	ug/g	N/A		
29	SPK-POST	S1006040042	S10V000420	0 0			Tungsten	SOLID	100	9.6592E+01			0.2	ug/g	N/A		
29	SPK-POST	S1006040042	S10V000420	0 0			Yttrium	SOLID	100	9.2715E+01			2.00E-03	ug/g	91.803	% Recovery	
Sample Sequence 30																	

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
30	SPK-POST	S1006040041	S10V000420	0 0			Aluminum	SOLID	1000	1.5509E+03			0.03	ug/g	94.992	% Recovery	
30	SPK-POST	S1006040041	S10V000420	0 0			Calcium	SOLID	1000	2.0524E+03			0.05	ug/g	102.39	% Recovery	
30	SPK-POST	S1006040041	S10V000420	0 0			Iron	SOLID	1000	2.6514E+03			5.00E-03	ug/g	91.647	% Recovery	
Sample Sequence 31																	
31	SAMPLE	S10V000578		0 0	A		Aluminum	SOLID	N/A	6.7055E+03			3.1602	ug/g			
31	SAMPLE	S10V000578		0 0	A		Barium	SOLID	N/A	8.3770E+01			0.31602	ug/g			
31	SAMPLE	S10V000578		0 0	A		Beryllium	SOLID	N/A	1.9119E-01			0.10534	ug/g			J
31	SAMPLE	S10V000578		0 0	A		Calcium	SOLID	N/A	1.1089E+04			5.2669	ug/g			
31	SAMPLE	S10V000578		0 0	A		Cerium	SOLID	N/A	2.0778E+01			3.1602	ug/g			J
31	SAMPLE	S10V000578		0 0	A		Cobalt	SOLID	N/A	8.8108E+00			1.0534	ug/g			J
31	SAMPLE	S10V000578		0 0	A		Chromium	SOLID	N/A	7.5675E+00			0.52669	ug/g			
31	SAMPLE	S10V000578		0 0	A		Copper	SOLID	N/A	1.1368E+01			0.52669	ug/g			
31	SAMPLE	S10V000578		0 0	A		Iron	SOLID	N/A	2.0080E+04			0.52669	ug/g			
31	SAMPLE	S10V000578		0 0	A	*	Potassium	SOLID	N/A	1.1108E+03			52.669	ug/g			
31	SAMPLE	S10V000578		0 0	A		Lanthanum	SOLID	N/A	9.2221E+00			0.31602	ug/g			
31	SAMPLE	S10V000578		0 0	A		Lithium	SOLID	N/A	7.0776E+00			0.31602	ug/g			
31	SAMPLE	S10V000578		0 0	A		Magnesium	SOLID	N/A	4.8457E+03			5.2669	ug/g			
31	SAMPLE	S10V000578		0 0	A		Manganese	SOLID	N/A	3.3737E+02			0.31602	ug/g			
31	SAMPLE	S10V000578		0 0	A		Molybdenum	SOLID	N/A	<2.1068E+00			2.1068	ug/g			U
31	SAMPLE	S10V000578		0 0	A		Sodium	SOLID	N/A	2.0085E+02			10.534	ug/g			b
31	SAMPLE	S10V000578		0 0	A		Nickel	SOLID	N/A	1.1453E+01			2.1068	ug/g			J
31	SAMPLE	S10V000578		0 0	A		Phosphorus	SOLID	N/A	8.8864E+02			5.2669	ug/g			
31	SAMPLE	S10V000578		0 0	A		Sulfur	SOLID	N/A	6.1933E+01			10.534	ug/g			J
31	SAMPLE	S10V000578		0 0	A		Silicon	SOLID	N/A	1.7199E+02			3.1602	ug/g			b
31	SAMPLE	S10V000578		0 0	A		Strontium	SOLID	N/A	3.3306E+01			0.31602	ug/g			
31	SAMPLE	S10V000578		0 0	A		Titanium	SOLID	N/A	1.1020E+03			0.52669	ug/g			
31	SAMPLE	S10V000578		0 0	A		Vanadium	SOLID	N/A	3.7921E+01			0.52669	ug/g			
31	SAMPLE	S10V000578		0 0	A		Yttrium	SOLID	N/A	9.9128E+00			0.21068	ug/g			
31	SAMPLE	S10V000578		0 0	A		Zinc	SOLID	N/A	3.6752E+01			0.52669	ug/g			
31	SAMPLE	S10V000578		0 0	A		Zirconium	SOLID	N/A	2.8843E+00			0.52669	ug/g			BJb
Sample Sequence 32																	
32	SAMPLE	S09V001618		0 0	A		Aluminum	SOLID	N/A	6.4566E+03			3.1562	ug/g			
32	SAMPLE	S09V001618		0 0	A		Barium	SOLID	N/A	6.4263E+01			0.31562	ug/g			
32	SAMPLE	S09V001618		0 0	A		Beryllium	SOLID	N/A	2.1115E-01			0.10521	ug/g			J
32	SAMPLE	S09V001618		0 0	A		Calcium	SOLID	N/A	9.5591E+03			5.2603	ug/g			
32	SAMPLE	S09V001618		0 0	A		Cerium	SOLID	N/A	2.3934E+01			3.1562	ug/g			J
32	SAMPLE	S09V001618		0 0	A		Cobalt	SOLID	N/A	8.7373E+00			1.0521	ug/g			J
32	SAMPLE	S09V001618		0 0	A		Chromium	SOLID	N/A	6.4838E+00			0.52603	ug/g			
32	SAMPLE	S09V001618		0 0	A		Copper	SOLID	N/A	1.2826E+01			0.52603	ug/g			
32	SAMPLE	S09V001618		0 0	A		Iron	SOLID	N/A	2.1483E+04			0.52603	ug/g			
32	SAMPLE	S09V001618		0 0	A	*	Potassium	SOLID	N/A	1.0332E+03			52.603	ug/g			
32	SAMPLE	S09V001618		0 0	A		Lanthanum	SOLID	N/A	1.0708E+01			0.31562	ug/g			

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
32	SAMPLE	S09V001618		0 0	A		Lithium	SOLID	N/A	6.0948E+00			0.31562	ug/g			
32	SAMPLE	S09V001618		0 0	A		Magnesium	SOLID	N/A	4.6105E+03			5.2603	ug/g			
32	SAMPLE	S09V001618		0 0	A		Manganese	SOLID	N/A	3.1616E+02			0.31562	ug/g			
32	SAMPLE	S09V001618		0 0	A		Molybdenum	SOLID	N/A	<2.1041E+00			2.1041	ug/g			U
32	SAMPLE	S09V001618		0 0	A		Sodium	SOLID	N/A	2.5622E+02			10.521	ug/g			b
32	SAMPLE	S09V001618		0 0	A		Nickel	SOLID	N/A	1.1892E+01			2.1041	ug/g			
32	SAMPLE	S09V001618		0 0	A		Phosphorus	SOLID	N/A	1.0177E+03			5.2603	ug/g			
32	SAMPLE	S09V001618		0 0	A		Lead	SOLID	N/A	5.8809E+00			5.2603	ug/g			J
32	SAMPLE	S09V001618		0 0	A		Sulfur	SOLID	N/A	7.5371E+01			10.521	ug/g			J
32	SAMPLE	S09V001618		0 0	A		Silicon	SOLID	N/A	1.4384E+02			3.1562	ug/g			b
32	SAMPLE	S09V001618		0 0	A		Strontium	SOLID	N/A	2.8405E+01			0.31562	ug/g			
32	SAMPLE	S09V001618		0 0	A		Titanium	SOLID	N/A	1.3304E+03			0.52603	ug/g			
32	SAMPLE	S09V001618		0 0	A		Vanadium	SOLID	N/A	4.1800E+01			0.52603	ug/g			
32	SAMPLE	S09V001618		0 0	A		Yttrium	SOLID	N/A	1.2095E+01			0.21041	ug/g			
32	SAMPLE	S09V001618		0 0	A		Zinc	SOLID	N/A	3.8207E+01			0.52603	ug/g			
32	SAMPLE	S09V001618		0 0	A		Zirconium	SOLID	N/A	5.7224E+00			0.52603	ug/g			Bb
Sample Sequence 33																	
33	SAMPLE	S09V001630		0 0	A		Aluminum	SOLID	N/A	5.8944E+03			3.1752	ug/g			
33	SAMPLE	S09V001630		0 0	A		Barium	SOLID	N/A	6.3162E+01			0.31752	ug/g			
33	SAMPLE	S09V001630		0 0	A		Beryllium	SOLID	N/A	1.9284E-01			0.10584	ug/g			J
33	SAMPLE	S09V001630		0 0	A		Calcium	SOLID	N/A	1.1409E+04			5.292	ug/g			
33	SAMPLE	S09V001630		0 0	A		Cerium	SOLID	N/A	2.3817E+01			3.1752	ug/g			J
33	SAMPLE	S09V001630		0 0	A		Cobalt	SOLID	N/A	8.7232E+00			1.0584	ug/g			J
33	SAMPLE	S09V001630		0 0	A		Chromium	SOLID	N/A	6.4596E+00			0.5292	ug/g			
33	SAMPLE	S09V001630		0 0	A		Copper	SOLID	N/A	1.1958E+01			0.5292	ug/g			
33	SAMPLE	S09V001630		0 0	A		Iron	SOLID	N/A	1.9751E+04			0.5292	ug/g			
33	SAMPLE	S09V001630		0 0	A	*	Potassium	SOLID	N/A	1.0405E+03			52.92	ug/g			
33	SAMPLE	S09V001630		0 0	A		Lanthanum	SOLID	N/A	9.6768E+00			0.31752	ug/g			
33	SAMPLE	S09V001630		0 0	A		Lithium	SOLID	N/A	5.9237E+00			0.31752	ug/g			
33	SAMPLE	S09V001630		0 0	A		Magnesium	SOLID	N/A	4.3206E+03			5.292	ug/g			
33	SAMPLE	S09V001630		0 0	A		Manganese	SOLID	N/A	3.0154E+02			0.31752	ug/g			
33	SAMPLE	S09V001630		0 0	A		Molybdenum	SOLID	N/A	<2.1168E+00			2.1168	ug/g			U
33	SAMPLE	S09V001630		0 0	A		Sodium	SOLID	N/A	2.3042E+02			10.584	ug/g			b
33	SAMPLE	S09V001630		0 0	A		Nickel	SOLID	N/A	8.2302E+00			2.1168	ug/g			
33	SAMPLE	S09V001630		0 0	A		Phosphorus	SOLID	N/A	9.5115E+02			5.292	ug/g			
33	SAMPLE	S09V001630		0 0	A		Lead	SOLID	N/A	8.4832E+00			5.292	ug/g			J
33	SAMPLE	S09V001630		0 0	A		Sulfur	SOLID	N/A	6.3537E+01			10.584	ug/g			J
33	SAMPLE	S09V001630		0 0	A		Silicon	SOLID	N/A	1.4538E+02			3.1752	ug/g			b
33	SAMPLE	S09V001630		0 0	A		Strontium	SOLID	N/A	2.5010E+01			0.31752	ug/g			
33	SAMPLE	S09V001630		0 0	A		Titanium	SOLID	N/A	1.1989E+03			0.5292	ug/g			
33	SAMPLE	S09V001630		0 0	A		Vanadium	SOLID	N/A	3.7031E+01			0.5292	ug/g			
33	SAMPLE	S09V001630		0 0	A		Yttrium	SOLID	N/A	1.1092E+01			0.21168	ug/g			

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
33	SAMPLE	S09V001630		0 0	A		Zinc	SOLID	N/A	3.4654E+01			0.5292	ug/g			
33	SAMPLE	S09V001630		0 0	A		Zirconium	SOLID	N/A	2.8129E+00			0.5292	ug/g			BJb
Sample Sequence 34																	
34	SAMPLE	S09V001645		0 0	A		Aluminum	SOLID	N/A	6.4950E+03			3.2102	ug/g			
34	SAMPLE	S09V001645		0 0	A		Barium	SOLID	N/A	7.1918E+01			0.32102	ug/g			
34	SAMPLE	S09V001645		0 0	A		Beryllium	SOLID	N/A	1.8480E-01			0.10701	ug/g			J
34	SAMPLE	S09V001645		0 0	A		Calcium	SOLID	N/A	1.9589E+04			5.3503	ug/g			
34	SAMPLE	S09V001645		0 0	A		Cerium	SOLID	N/A	2.1389E+01			3.2102	ug/g			J
34	SAMPLE	S09V001645		0 0	A		Cobalt	SOLID	N/A	6.0388E+00			1.0701	ug/g			J
34	SAMPLE	S09V001645		0 0	A		Chromium	SOLID	N/A	9.1206E+00			0.53503	ug/g			
34	SAMPLE	S09V001645		0 0	A		Copper	SOLID	N/A	1.2195E+01			0.53503	ug/g			
34	SAMPLE	S09V001645		0 0	A		Iron	SOLID	N/A	1.6453E+04			0.53503	ug/g			
34	SAMPLE	S09V001645		0 0	A	*	Potassium	SOLID	N/A	9.7450E+02			53.503	ug/g			
34	SAMPLE	S09V001645		0 0	A		Lanthanum	SOLID	N/A	8.7463E+00			0.32102	ug/g			
34	SAMPLE	S09V001645		0 0	A		Lithium	SOLID	N/A	7.9102E+00			0.32102	ug/g			
34	SAMPLE	S09V001645		0 0	A		Magnesium	SOLID	N/A	5.4218E+03			5.3503	ug/g			
34	SAMPLE	S09V001645		0 0	A		Manganese	SOLID	N/A	2.8608E+02			0.32102	ug/g			
34	SAMPLE	S09V001645		0 0	A		Molybdenum	SOLID	N/A	<2.1401E+00			2.1401	ug/g			U
34	SAMPLE	S09V001645		0 0	A		Sodium	SOLID	N/A	2.8412E+02			10.701	ug/g			b
34	SAMPLE	S09V001645		0 0	A		Nickel	SOLID	N/A	1.1689E+01			2.1401	ug/g			
34	SAMPLE	S09V001645		0 0	A		Phosphorus	SOLID	N/A	7.8566E+02			5.3503	ug/g			
34	SAMPLE	S09V001645		0 0	A		Lead	SOLID	N/A	6.0337E+00			5.3503	ug/g			J
34	SAMPLE	S09V001645		0 0	A		Sulfur	SOLID	N/A	9.6095E+01			10.701	ug/g			J
34	SAMPLE	S09V001645		0 0	A		Silicon	SOLID	N/A	1.2251E+02			3.2102	ug/g			b
34	SAMPLE	S09V001645		0 0	A		Strontium	SOLID	N/A	4.9684E+01			0.32102	ug/g			
34	SAMPLE	S09V001645		0 0	A		Titanium	SOLID	N/A	8.6773E+02			0.53503	ug/g			
34	SAMPLE	S09V001645		0 0	A		Vanadium	SOLID	N/A	3.1604E+01			0.53503	ug/g			
34	SAMPLE	S09V001645		0 0	A		Yttrium	SOLID	N/A	7.7713E+00			0.21401	ug/g			
34	SAMPLE	S09V001645		0 0	A		Zinc	SOLID	N/A	3.3378E+01			0.53503	ug/g			
34	SAMPLE	S09V001645		0 0	A		Zirconium	SOLID	N/A	7.0045E+00			0.53503	ug/g			Bb
Sample Sequence 35																	
35	SAMPLE	S10V000088		0 0	A		Aluminum	SOLID	N/A	6.2950E+03			3.0892	ug/g			
35	SAMPLE	S10V000088		0 0	A		Barium	SOLID	N/A	6.4623E+01			0.30892	ug/g			
35	SAMPLE	S10V000088		0 0	A		Beryllium	SOLID	N/A	1.8113E-01			0.10297	ug/g			J
35	SAMPLE	S10V000088		0 0	A		Calcium	SOLID	N/A	4.8035E+03			5.1487	ug/g			
35	SAMPLE	S10V000088		0 0	A		Cerium	SOLID	N/A	1.4898E+01			3.0892	ug/g			J
35	SAMPLE	S10V000088		0 0	A		Cobalt	SOLID	N/A	5.3493E+00			1.0297	ug/g			J
35	SAMPLE	S10V000088		0 0	A		Chromium	SOLID	N/A	2.2057E+01			0.51487	ug/g			
35	SAMPLE	S10V000088		0 0	A		Copper	SOLID	N/A	1.0948E+01			0.51487	ug/g			
35	SAMPLE	S10V000088		0 0	A		Iron	SOLID	N/A	1.5544E+04			0.51487	ug/g			
35	SAMPLE	S10V000088		0 0	A	*	Potassium	SOLID	N/A	1.1055E+03			51.487	ug/g			
35	SAMPLE	S10V000088		0 0	A		Lanthanum	SOLID	N/A	6.5707E+00			0.30892	ug/g			

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
35	SAMPLE	S10V000088		0 0	A		Lithium	SOLID	N/A	7.6987E+00			0.30892	ug/g			
35	SAMPLE	S10V000088		0 0	A		Magnesium	SOLID	N/A	4.0547E+03			5.1487	ug/g			
35	SAMPLE	S10V000088		0 0	A		Manganese	SOLID	N/A	2.6112E+02			0.30892	ug/g			
35	SAMPLE	S10V000088		0 0	A		Molybdenum	SOLID	N/A	2.1057E+00			2.0595	ug/g			J
35	SAMPLE	S10V000088		0 0	A		Sodium	SOLID	N/A	2.1745E+02			10.297	ug/g			b
35	SAMPLE	S10V000088		0 0	A		Nickel	SOLID	N/A	1.1339E+01			2.0595	ug/g			
35	SAMPLE	S10V000088		0 0	A		Phosphorus	SOLID	N/A	4.5645E+02			5.1487	ug/g			
35	SAMPLE	S10V000088		0 0	A		Lead	SOLID	N/A	9.7243E+00			5.1487	ug/g			J
35	SAMPLE	S10V000088		0 0	A		Sulfur	SOLID	N/A	6.5455E+01			10.297	ug/g			J
35	SAMPLE	S10V000088		0 0	A		Silicon	SOLID	N/A	1.1106E+02			3.0892	ug/g			b
35	SAMPLE	S10V000088		0 0	A		Strontium	SOLID	N/A	2.9434E+01			0.30892	ug/g			
35	SAMPLE	S10V000088		0 0	A		Titanium	SOLID	N/A	8.6498E+02			0.51487	ug/g			
35	SAMPLE	S10V000088		0 0	A		Vanadium	SOLID	N/A	3.0885E+01			0.51487	ug/g			
35	SAMPLE	S10V000088		0 0	A		Yttrium	SOLID	N/A	5.4558E+00			0.20595	ug/g			
35	SAMPLE	S10V000088		0 0	A		Zinc	SOLID	N/A	2.9342E+01			0.51487	ug/g			
35	SAMPLE	S10V000088		0 0	A		Zirconium	SOLID	N/A	6.3871E+00			0.51487	ug/g			Bb
Sample Sequence 36																	
36	SAMPLE	S10V000630		0 0	A		Aluminum	SOLID	N/A	5.5906E+03			3.1344	ug/g			
36	SAMPLE	S10V000630		0 0	A		Barium	SOLID	N/A	7.0148E+01			0.31344	ug/g			
36	SAMPLE	S10V000630		0 0	A		Beryllium	SOLID	N/A	1.4387E-01			0.10448	ug/g			J
36	SAMPLE	S10V000630		0 0	A		Bismuth	SOLID	N/A	<1.0448E+01			10.448	ug/g			U
36	SAMPLE	S10V000630		0 0	A		Calcium	SOLID	N/A	7.3552E+03			5.224	ug/g			
36	SAMPLE	S10V000630		0 0	A		Cerium	SOLID	N/A	1.9101E+01			3.1344	ug/g			J
36	SAMPLE	S10V000630		0 0	A		Cobalt	SOLID	N/A	5.3182E+00			1.0448	ug/g			J
36	SAMPLE	S10V000630		0 0	A		Chromium	SOLID	N/A	1.0603E+01			0.5224	ug/g			
36	SAMPLE	S10V000630		0 0	A		Copper	SOLID	N/A	1.1018E+01			0.5224	ug/g			
36	SAMPLE	S10V000630		0 0	A		Iron	SOLID	N/A	1.5993E+04			0.5224	ug/g			
36	SAMPLE	S10V000630		0 0	A	*	Potassium	SOLID	N/A	8.9584E+02			52.24	ug/g			
36	SAMPLE	S10V000630		0 0	A		Lanthanum	SOLID	N/A	8.2763E+00			0.31344	ug/g			
36	SAMPLE	S10V000630		0 0	A		Lithium	SOLID	N/A	6.3164E+00			0.31344	ug/g			
36	SAMPLE	S10V000630		0 0	A		Magnesium	SOLID	N/A	3.9976E+03			5.224	ug/g			
36	SAMPLE	S10V000630		0 0	A		Manganese	SOLID	N/A	2.4141E+02			0.31344	ug/g			
36	SAMPLE	S10V000630		0 0	A		Molybdenum	SOLID	N/A	<2.0896E+00			2.0896	ug/g			U
36	SAMPLE	S10V000630		0 0	A		Sodium	SOLID	N/A	2.8610E+02			10.448	ug/g			b
36	SAMPLE	S10V000630		0 0	A		Nickel	SOLID	N/A	1.0565E+01			2.0896	ug/g			J
36	SAMPLE	S10V000630		0 0	A		Phosphorus	SOLID	N/A	7.9925E+02			5.224	ug/g			
36	SAMPLE	S10V000630		0 0	A		Sulfur	SOLID	N/A	4.5192E+01			10.448	ug/g			J
36	SAMPLE	S10V000630		0 0	A		Silicon	SOLID	N/A	1.0491E+02			3.1344	ug/g			b
36	SAMPLE	S10V000630		0 0	A		Strontium	SOLID	N/A	2.8088E+01			0.31344	ug/g			
36	SAMPLE	S10V000630		0 0	A		Titanium	SOLID	N/A	8.8280E+02			0.5224	ug/g			
36	SAMPLE	S10V000630		0 0	A		Vanadium	SOLID	N/A	3.2049E+01			0.5224	ug/g			
36	SAMPLE	S10V000630		0 0	A		Yttrium	SOLID	N/A	9.2064E+00			0.20896	ug/g			

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
36	SAMPLE	S10V000630		0 0	A		Zinc	SOLID	N/A	2.8309E+01			0.5224	ug/g			
36	SAMPLE	S10V000630		0 0	A		Zirconium	SOLID	N/A	1.2826E+00			0.5224	ug/g			BJb
Sample Sequence 37																	
37	SAMPLE	S10V000639		0 0	A		Aluminum	SOLID	N/A	5.2469E+03			3.0618	ug/g			
37	SAMPLE	S10V000639		0 0	A		Barium	SOLID	N/A	5.1088E+01			0.30618	ug/g			
37	SAMPLE	S10V000639		0 0	A		Beryllium	SOLID	N/A	1.1727E-01			0.10206	ug/g			J
37	SAMPLE	S10V000639		0 0	A		Bismuth	SOLID	N/A	<1.0206E+01			10.206	ug/g			U
37	SAMPLE	S10V000639		0 0	A		Calcium	SOLID	N/A	7.0169E+03			5.103	ug/g			
37	SAMPLE	S10V000639		0 0	A		Cerium	SOLID	N/A	1.8740E+01			3.0618	ug/g			J
37	SAMPLE	S10V000639		0 0	A		Cobalt	SOLID	N/A	5.4521E+00			1.0206	ug/g			J
37	SAMPLE	S10V000639		0 0	A		Chromium	SOLID	N/A	8.5932E+00			0.5103	ug/g			
37	SAMPLE	S10V000639		0 0	A		Copper	SOLID	N/A	1.0180E+01			0.5103	ug/g			
37	SAMPLE	S10V000639		0 0	A		Iron	SOLID	N/A	1.5906E+04			0.5103	ug/g			
37	SAMPLE	S10V000639		0 0	A	*	Potassium	SOLID	N/A	8.6205E+02			51.03	ug/g			
37	SAMPLE	S10V000639		0 0	A		Lanthanum	SOLID	N/A	7.4927E+00			0.30618	ug/g			
37	SAMPLE	S10V000639		0 0	A		Lithium	SOLID	N/A	6.4995E+00			0.30618	ug/g			
37	SAMPLE	S10V000639		0 0	A		Magnesium	SOLID	N/A	3.6804E+03			5.103	ug/g			
37	SAMPLE	S10V000639		0 0	A		Manganese	SOLID	N/A	2.3808E+02			0.30618	ug/g			
37	SAMPLE	S10V000639		0 0	A		Molybdenum	SOLID	N/A	2.4482E+00			2.0412	ug/g			J
37	SAMPLE	S10V000639		0 0	A		Sodium	SOLID	N/A	2.2794E+02			10.206	ug/g			b
37	SAMPLE	S10V000639		0 0	A		Nickel	SOLID	N/A	8.1839E+00			2.0412	ug/g			J
37	SAMPLE	S10V000639		0 0	A		Phosphorus	SOLID	N/A	6.4294E+02			5.103	ug/g			
37	SAMPLE	S10V000639		0 0	A		Sulfur	SOLID	N/A	4.0676E+01			10.206	ug/g			J
37	SAMPLE	S10V000639		0 0	A		Silicon	SOLID	N/A	9.5525E+01			3.0618	ug/g			b
37	SAMPLE	S10V000639		0 0	A		Strontium	SOLID	N/A	2.5926E+01			0.30618	ug/g			
37	SAMPLE	S10V000639		0 0	A		Titanium	SOLID	N/A	8.9028E+02			0.5103	ug/g			
37	SAMPLE	S10V000639		0 0	A		Vanadium	SOLID	N/A	3.2611E+01			0.5103	ug/g			
37	SAMPLE	S10V000639		0 0	A		Yttrium	SOLID	N/A	7.3790E+00			0.20412	ug/g			
37	SAMPLE	S10V000639		0 0	A		Zinc	SOLID	N/A	2.9300E+01			0.5103	ug/g			
37	SAMPLE	S10V000639		0 0	A		Zirconium	SOLID	N/A	3.0679E+00			0.5103	ug/g			BJb
Sample Sequence 38																	
38	SAMPLE	S10V000657		0 0	A		Aluminum	SOLID	N/A	5.3730E+03			3.2275	ug/g			
38	SAMPLE	S10V000657		0 0	A		Barium	SOLID	N/A	5.5431E+01			0.32275	ug/g			
38	SAMPLE	S10V000657		0 0	A		Beryllium	SOLID	N/A	1.1135E-01			0.10758	ug/g			J
38	SAMPLE	S10V000657		0 0	A		Calcium	SOLID	N/A	7.1141E+03			5.3792	ug/g			
38	SAMPLE	S10V000657		0 0	A		Cerium	SOLID	N/A	1.3978E+01			3.2275	ug/g			J
38	SAMPLE	S10V000657		0 0	A		Cobalt	SOLID	N/A	5.5040E+00			1.0758	ug/g			J
38	SAMPLE	S10V000657		0 0	A		Chromium	SOLID	N/A	8.3562E+00			0.53792	ug/g			
38	SAMPLE	S10V000657		0 0	A		Copper	SOLID	N/A	9.6613E+00			0.53792	ug/g			
38	SAMPLE	S10V000657		0 0	A		Iron	SOLID	N/A	1.5953E+04			0.53792	ug/g			
38	SAMPLE	S10V000657		0 0	A	*	Potassium	SOLID	N/A	9.4190E+02			53.792	ug/g			
38	SAMPLE	S10V000657		0 0	A		Lanthanum	SOLID	N/A	6.8949E+00			0.32275	ug/g			

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
38	SAMPLE	S10V000657		0 0	A		Lithium	SOLID	N/A	6.8513E+00			0.32275	ug/g			
38	SAMPLE	S10V000657		0 0	A		Magnesium	SOLID	N/A	3.9421E+03			5.3792	ug/g			
38	SAMPLE	S10V000657		0 0	A		Manganese	SOLID	N/A	2.5898E+02			0.32275	ug/g			
38	SAMPLE	S10V000657		0 0	A		Molybdenum	SOLID	N/A	2.2551E+00			2.1517	ug/g			J
38	SAMPLE	S10V000657		0 0	A		Sodium	SOLID	N/A	2.3038E+02			10.758	ug/g			b
38	SAMPLE	S10V000657		0 0	A		Nickel	SOLID	N/A	7.7006E+00			2.1517	ug/g			J
38	SAMPLE	S10V000657		0 0	A		Phosphorus	SOLID	N/A	6.3014E+02			5.3792	ug/g			
38	SAMPLE	S10V000657		0 0	A		Sulfur	SOLID	N/A	3.8946E+01			10.758	ug/g			J
38	SAMPLE	S10V000657		0 0	A		Silicon	SOLID	N/A	1.0938E+02			3.2275	ug/g			b
38	SAMPLE	S10V000657		0 0	A		Strontium	SOLID	N/A	2.6864E+01			0.32275	ug/g			
38	SAMPLE	S10V000657		0 0	A		Titanium	SOLID	N/A	9.8444E+02			0.53792	ug/g			
38	SAMPLE	S10V000657		0 0	A		Vanadium	SOLID	N/A	3.3533E+01			0.53792	ug/g			
38	SAMPLE	S10V000657		0 0	A		Yttrium	SOLID	N/A	7.2679E+00			0.21517	ug/g			
38	SAMPLE	S10V000657		0 0	A		Zinc	SOLID	N/A	3.3720E+01			0.53792	ug/g			
38	SAMPLE	S10V000657		0 0	A		Zirconium	SOLID	N/A	8.3271E+00			0.53792	ug/g			Bb
Sample Sequence 39																	
39	ICSA	S1006040037		0 0			Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Aluminum	LIQUID	200	1.9345E+02			0.03	ug/mL	96.724	% Recovery	
39	ICSA	S1006040037		0 0			Arsenic	LIQUID		1.9351E-01			0.05	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Boron	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Calcium	LIQUID	200	2.0346E+02			0.05	ug/mL	101.73	% Recovery	
39	ICSA	S1006040037		0 0			Cadmium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Cobalt	LIQUID		1.7220E-02			0.01	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Iron	LIQUID	200	1.8779E+02			5.00E-03	ug/mL	93.893	% Recovery	
39	ICSA	S1006040037		0 0			Potassium	LIQUID		5.1104E-01			0.5	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Magnesium	LIQUID	200	1.9395E+02			0.05	ug/mL	96.973	% Recovery	
39	ICSA	S1006040037		0 0			Manganese	LIQUID		9.1000E-03			3.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Sodium	LIQUID	200	1.9111E+02			0.1	ug/mL	95.554	% Recovery	
39	ICSA	S1006040037		0 0			Neodymium	LIQUID		1.7610E-02			0.01	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Nickel	LIQUID		2.4180E-02			0.02	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Niobium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
39	ICSA	S1006040037		0 0			Lead	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Palladium	LIQUID		1.1501E-01			0.1	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Antimony	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Selenium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Silicon	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Thorium	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Thallium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Uranium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Tungsten	LIQUID		1.3542E+00			0.2	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Zinc	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
39	ICSA	S1006040037		0 0			Zirconium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
Sample Sequence 40																	
40	ICSAB	S1006040038		0 0			Silver	LIQUID	1	9.4699E-01			5.00E-03	ug/mL	94.699	% Recovery	
40	ICSAB	S1006040038		0 0			Aluminum	LIQUID	200	1.9232E+02			0.03	ug/mL	96.161	% Recovery	
40	ICSAB	S1006040038		0 0			Arsenic	LIQUID	5	4.8953E+00			0.05	ug/mL	97.905	% Recovery	
40	ICSAB	S1006040038		0 0			Boron	LIQUID	1	9.7861E-01			0.03	ug/mL	97.861	% Recovery	
40	ICSAB	S1006040038		0 0			Barium	LIQUID	1	9.3502E-01			3.00E-03	ug/mL	93.502	% Recovery	
40	ICSAB	S1006040038		0 0			Beryllium	LIQUID	.1	8.7810E-02			1.00E-03	ug/mL	87.81	% Recovery	
40	ICSAB	S1006040038		0 0			Bismuth	LIQUID	5	5.1275E+00			0.1	ug/mL	102.55	% Recovery	
40	ICSAB	S1006040038		0 0			Calcium	LIQUID	200	1.9874E+02			0.05	ug/mL	99.369	% Recovery	
40	ICSAB	S1006040038		0 0			Cadmium	LIQUID	.2	1.8823E-01			5.00E-03	ug/mL	94.115	% Recovery	
40	ICSAB	S1006040038		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Cobalt	LIQUID	5	4.6790E+00			0.01	ug/mL	93.581	% Recovery	
40	ICSAB	S1006040038		0 0			Chromium	LIQUID	5	4.6934E+00			5.00E-03	ug/mL	93.867	% Recovery	
40	ICSAB	S1006040038		0 0			Copper	LIQUID	5	4.7334E+00			5.00E-03	ug/mL	94.668	% Recovery	
40	ICSAB	S1006040038		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Iron	LIQUID	200	1.8543E+02			5.00E-03	ug/mL	92.713	% Recovery	
40	ICSAB	S1006040038		0 0			Potassium	LIQUID		8.5191E-01			0.5	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Lithium	LIQUID	1	9.7333E-01			3.00E-03	ug/mL	97.333	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
40	ICSAB	S1006040038		0 0			Magnesium	LIQUID	200	1.9060E+02			0.05	ug/mL	95.301	% Recovery	
40	ICSAB	S1006040038		0 0			Manganese	LIQUID	5	4.7447E+00			3.00E-03	ug/mL	94.893	% Recovery	
40	ICSAB	S1006040038		0 0			Molybdenum	LIQUID	5	4.6652E+00			0.02	ug/mL	93.305	% Recovery	
40	ICSAB	S1006040038		0 0			Sodium	LIQUID	200	1.9446E+02			0.1	ug/mL	97.228	% Recovery	
40	ICSAB	S1006040038		0 0			Neodymium	LIQUID		1.9017E-01			0.01	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Nickel	LIQUID	5	4.6418E+00			0.02	ug/mL	92.835	% Recovery	
40	ICSAB	S1006040038		0 0			Niobium	LIQUID	5	4.2086E+00			0.03	ug/mL	84.171	% Recovery	
40	ICSAB	S1006040038		0 0			Phosphorus	LIQUID	1	9.6621E-01			0.05	ug/mL	96.621	% Recovery	
41	ICSAB	S1006040038		0 1			Lead	LIQUID	1	1.1912E+00			0.05	ug/mL	119.12	% Recovery	
40	ICSAB	S1006040038		0 0			Palladium	LIQUID		1.2336E+00			0.1	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Rhodium	LIQUID	1	9.0881E-01			0.05	ug/mL	90.881	% Recovery	
40	ICSAB	S1006040038		0 0			Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Antimony	LIQUID	5	4.8953E+00			0.05	ug/mL	97.906	% Recovery	
40	ICSAB	S1006040038		0 0			Selenium	LIQUID	5	4.9801E+00			0.1	ug/mL	99.603	% Recovery	
40	ICSAB	S1006040038		0 0			Silicon	LIQUID	5	4.7150E+00			0.03	ug/mL	94.3	% Recovery	
40	ICSAB	S1006040038		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Tin	LIQUID	1	8.5538E-01			0.03	ug/mL	85.538	% Recovery	
40	ICSAB	S1006040038		0 0			Strontium	LIQUID	1	9.4995E-01			3.00E-03	ug/mL	94.995	% Recovery	
40	ICSAB	S1006040038		0 0			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Thorium	LIQUID	5	4.6024E+00			0.05	ug/mL	92.049	% Recovery	
40	ICSAB	S1006040038		0 0			Titanium	LIQUID	50	4.6764E+01			5.00E-03	ug/mL	93.529	% Recovery	
40	ICSAB	S1006040038		0 0			Thallium	LIQUID	5	4.2236E+00			0.1	ug/mL	84.472	% Recovery	
40	ICSAB	S1006040038		0 0			Uranium	LIQUID	5	4.7840E+00			0.1	ug/mL	95.679	% Recovery	
40	ICSAB	S1006040038		0 0			Vanadium	LIQUID	1	9.5127E-01			5.00E-03	ug/mL	95.127	% Recovery	
40	ICSAB	S1006040038		0 0			Tungsten	LIQUID	5	5.7274E+00			0.2	ug/mL	114.55	% Recovery	
40	ICSAB	S1006040038		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL	N/A		
40	ICSAB	S1006040038		0 0			Zinc	LIQUID	5	4.6925E+00			5.00E-03	ug/mL	93.851	% Recovery	
40	ICSAB	S1006040038		0 0			Zirconium	LIQUID	5	4.3940E+00			5.00E-03	ug/mL	87.88	% Recovery	
Sample Sequence 42																	
42	CCV	S1006040039		0 0			Silver	LIQUID	1	9.6229E-01			5.00E-03	ug/mL	96.229	% Recovery	
42	CCV	S1006040039		0 0			Aluminum	LIQUID	5	5.0350E+00			0.03	ug/mL	100.7	% Recovery	
42	CCV	S1006040039		0 0			Arsenic	LIQUID	5	4.9666E+00			0.05	ug/mL	99.333	% Recovery	
42	CCV	S1006040039		0 0			Boron	LIQUID	5	4.9226E+00			0.03	ug/mL	98.452	% Recovery	
42	CCV	S1006040039		0 0			Barium	LIQUID	5	5.0852E+00			3.00E-03	ug/mL	101.7	% Recovery	
42	CCV	S1006040039		0 0			Beryllium	LIQUID	5	4.9173E+00			1.00E-03	ug/mL	98.347	% Recovery	
42	CCV	S1006040039		0 0			Bismuth	LIQUID	5	5.0086E+00			0.1	ug/mL	100.17	% Recovery	
42	CCV	S1006040039		0 0			Calcium	LIQUID	5	5.0735E+00			0.05	ug/mL	101.47	% Recovery	
42	CCV	S1006040039		0 0			Cadmium	LIQUID	5	5.0583E+00			5.00E-03	ug/mL	101.17	% Recovery	
44	CCV	S1006040039		0 2			Cerium	LIQUID	5	5.1345E+00			0.03	ug/mL	102.69	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
42	CCV	S1006040039		0 0			Cobalt	LIQUID	5	5.1124E+00			0.01	ug/mL	102.25	% Recovery	
42	CCV	S1006040039		0 0			Chromium	LIQUID	5	5.1237E+00			5.00E-03	ug/mL	102.47	% Recovery	
42	CCV	S1006040039		0 0			Copper	LIQUID	5	4.9525E+00			5.00E-03	ug/mL	99.05	% Recovery	
44	CCV	S1006040039		0 2			Europium	LIQUID	5	4.8581E+00			5.00E-03	ug/mL	97.161	% Recovery	
42	CCV	S1006040039		0 0			Iron	LIQUID	5	5.0448E+00			5.00E-03	ug/mL	100.9	% Recovery	
42	CCV	S1006040039		0 0			Lanthanum	LIQUID	5	5.0526E+00			3.00E-03	ug/mL	101.05	% Recovery	
42	CCV	S1006040039		0 0			Lithium	LIQUID	5	5.3404E+00			3.00E-03	ug/mL	106.81	% Recovery	
42	CCV	S1006040039		0 0			Magnesium	LIQUID	5	4.8958E+00			0.05	ug/mL	97.917	% Recovery	
42	CCV	S1006040039		0 0			Manganese	LIQUID	5	5.0580E+00			3.00E-03	ug/mL	101.16	% Recovery	
42	CCV	S1006040039		0 0			Molybdenum	LIQUID	5	5.0829E+00			0.02	ug/mL	101.66	% Recovery	
42	CCV	S1006040039		0 0			Sodium	LIQUID	5	5.3816E+00			0.1	ug/mL	107.63	% Recovery	
44	CCV	S1006040039		0 2			Neodymium	LIQUID	5	4.7808E+00			0.01	ug/mL	95.616	% Recovery	
42	CCV	S1006040039		0 0			Nickel	LIQUID	5	5.0534E+00			0.02	ug/mL	101.07	% Recovery	
45	CCV	S1006040039		0 3			Niobium	LIQUID	5	4.8400E+00			0.03	ug/mL	96.801	% Recovery	
42	CCV	S1006040039		0 0			Phosphorus	LIQUID	5	5.0032E+00			0.05	ug/mL	100.06	% Recovery	
42	CCV	S1006040039		0 0			Lead	LIQUID	5	5.2733E+00			0.05	ug/mL	105.47	% Recovery	
44	CCV	S1006040039		0 2			Palladium	LIQUID	5	4.7431E+00			0.1	ug/mL	94.862	% Recovery	
44	CCV	S1006040039		0 2			Praseodymium	LIQUID	5	5.0414E+00			0.01	ug/mL	100.83	% Recovery	
44	CCV	S1006040039		0 2			Rubidium	LIQUID	5	5.0809E+00			1	ug/mL	101.62	% Recovery	
44	CCV	S1006040039		0 2			Rhodium	LIQUID	5	4.8041E+00			0.05	ug/mL	96.082	% Recovery	
44	CCV	S1006040039		0 2			Ruthenium	LIQUID	5	5.0994E+00			0.03	ug/mL	101.99	% Recovery	
42	CCV	S1006040039		0 0			Sulfur	LIQUID	5	4.9513E+00			0.1	ug/mL	99.026	% Recovery	
42	CCV	S1006040039		0 0			Antimony	LIQUID	5	4.9200E+00			0.05	ug/mL	98.4	% Recovery	
42	CCV	S1006040039		0 0			Selenium	LIQUID	5	5.0726E+00			0.1	ug/mL	101.45	% Recovery	
42	CCV	S1006040039		0 0			Silicon	LIQUID	5	4.7582E+00			0.03	ug/mL	95.164	% Recovery	
44	CCV	S1006040039		0 2			Samarium	LIQUID	5	5.0344E+00			0.02	ug/mL	100.69	% Recovery	
45	CCV	S1006040039		0 3			Tin	LIQUID	5	5.0193E+00			0.03	ug/mL	100.39	% Recovery	
42	CCV	S1006040039		0 0			Strontium	LIQUID	5	5.0447E+00			3.00E-03	ug/mL	100.89	% Recovery	
45	CCV	S1006040039		0 3			Tantalum	LIQUID	5	4.6803E+00			0.05	ug/mL	93.607	% Recovery	
45	CCV	S1006040039		0 3			Tellurium	LIQUID	5	4.9083E+00			0.1	ug/mL	98.166	% Recovery	
44	CCV	S1006040039		0 2			Thorium	LIQUID	5	5.1314E+00			0.05	ug/mL	102.63	% Recovery	
42	CCV	S1006040039		0 0			Titanium	LIQUID	5	4.9886E+00			5.00E-03	ug/mL	99.771	% Recovery	
44	CCV	S1006040039		0 2			Thallium	LIQUID	5	5.1505E+00			0.1	ug/mL	103.01	% Recovery	
44	CCV	S1006040039		0 2			Uranium	LIQUID	5	5.1927E+00			0.1	ug/mL	103.85	% Recovery	
42	CCV	S1006040039		0 0			Vanadium	LIQUID	5	5.1614E+00			5.00E-03	ug/mL	103.23	% Recovery	
45	CCV	S1006040039		0 3			Tungsten	LIQUID	5	4.7270E+00			0.2	ug/mL	94.54	% Recovery	
44	CCV	S1006040039		0 2			Yttrium	LIQUID	5	4.9651E+00			2.00E-03	ug/mL	99.302	% Recovery	
42	CCV	S1006040039		0 0			Zinc	LIQUID	5	5.0204E+00			5.00E-03	ug/mL	100.41	% Recovery	
42	CCV	S1006040039		0 0			Zirconium	LIQUID	5	4.9486E+00			5.00E-03	ug/mL	98.971	% Recovery	
Sample Sequence 47																	
47	LLS	S1006040043		0 0			Silver	LIQUID	.02	1.8920E-02			5.00E-03	ug/mL	94.6	% Recovery	
47	LLS	S1006040043		0 0			Aluminum	LIQUID	.1	1.0149E-01			0.03	ug/mL	101.49	% Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
47	LLS	S1006040043		0 0			Arsenic	LIQUID	.2	1.9926E-01			0.05	ug/mL	99.63	% Recovery	
49	LLS	S1006040043		0 2			Boron	LIQUID	.1	8.8010E-02			0.03	ug/mL	88.01	% Recovery	
47	LLS	S1006040043		0 0			Barium	LIQUID	.01	9.4200E-03			3.00E-03	ug/mL	94.2	% Recovery	
48	LLS	S1006040043		0 1			Beryllium	LIQUID	.001	8.5000E-04			1.00E-04	ug/mL	85	% Recovery	
48	LLS	S1006040043		0 1			Bismuth	LIQUID	.2	1.7027E-01			0.1	ug/mL	85.135	% Recovery	
47	LLS	S1006040043		0 0			Calcium	LIQUID	.2	1.9287E-01			0.05	ug/mL	96.435	% Recovery	
47	LLS	S1006040043		0 0			Cadmium	LIQUID	.01	7.8700E-03			5.00E-03	ug/mL	78.7	% Recovery	
48	LLS	S1006040043		0 1			Cerium	LIQUID	.2	2.1004E-01			0.03	ug/mL	105.02	% Recovery	
49	LLS	S1006040043		0 2			Cobalt	LIQUID	.04	3.9380E-02			0.01	ug/mL	98.45	% Recovery	
47	LLS	S1006040043		0 0			Chromium	LIQUID	.02	2.0680E-02			5.00E-03	ug/mL	103.4	% Recovery	
49	LLS	S1006040043		0 2			Copper	LIQUID	.02	2.0850E-02			5.00E-03	ug/mL	104.25	% Recovery	
50	LLS	S1006040043		0 3			Europium	LIQUID	.1	9.8170E-02			5.00E-03	ug/mL	98.17	% Recovery	
47	LLS	S1006040043		0 0			Iron	LIQUID	.05	4.3420E-02			5.00E-03	ug/mL	86.84	% Recovery	
50	LLS	S1006040043		0 3			Potassium	LIQUID	.5	5.4324E-01			0.5	ug/mL	108.65	% Recovery	
47	LLS	S1006040043		0 0			Lanthanum	LIQUID	.01	9.0400E-03			3.00E-03	ug/mL	90.4	% Recovery	
47	LLS	S1006040043		0 0			Lithium	LIQUID	.02	2.1040E-02			3.00E-03	ug/mL	105.2	% Recovery	
47	LLS	S1006040043		0 0			Magnesium	LIQUID	.2	1.9921E-01			0.05	ug/mL	99.605	% Recovery	
47	LLS	S1006040043		0 0			Manganese	LIQUID	.02	1.9330E-02			3.00E-03	ug/mL	96.65	% Recovery	
49	LLS	S1006040043		0 2			Molybdenum	LIQUID	.1	1.0026E-01			0.02	ug/mL	100.26	% Recovery	
47	LLS	S1006040043		0 0			Sodium	LIQUID	.2	1.9305E-01			0.1	ug/mL	96.525	% Recovery	
47	LLS	S1006040043		0 0			Neodymium	LIQUID	.1	1.0031E-01			0.01	ug/mL	100.31	% Recovery	
47	LLS	S1006040043		0 0			Nickel	LIQUID	.04	4.3330E-02			0.02	ug/mL	108.32	% Recovery	
52	LLS	S1006040043		0 5			Niobium	LIQUID	.1	9.1700E-02			0.03	ug/mL	91.7	% Recovery	
49	LLS	S1006040043		0 2			Phosphorus	LIQUID	.4	3.8346E-01			0.05	ug/mL	95.865	% Recovery	
47	LLS	S1006040043		0 0			Lead	LIQUID	.2	1.9954E-01			0.05	ug/mL	99.77	% Recovery	
51	LLS	S1006040043		0 4			Palladium	LIQUID	1	1.0296E+00			0.1	ug/mL	102.96	% Recovery	
50	LLS	S1006040043		0 3			Praseodymium	LIQUID	.1	1.1628E-01			0.01	ug/mL	116.28	% Recovery	
51	LLS	S1006040043		0 4			Rhodium	LIQUID	.1	8.7070E-02			0.05	ug/mL	87.07	% Recovery	
51	LLS	S1006040043		0 4			Ruthenium	LIQUID	.1	1.1635E-01			0.03	ug/mL	116.35	% Recovery	
49	LLS	S1006040043		0 2			Sulfur	LIQUID	.2	1.6756E-01			0.1	ug/mL	83.78	% Recovery	
49	LLS	S1006040043		0 2			Antimony	LIQUID	.1	9.5600E-02			0.05	ug/mL	95.6	% Recovery	
48	LLS	S1006040043		0 1			Selenium	LIQUID	.2	2.2234E-01			0.1	ug/mL	111.17	% Recovery	
49	LLS	S1006040043		0 2			Silicon	LIQUID	.1	8.5070E-02			0.03	ug/mL	85.07	% Recovery	
47	LLS	S1006040043		0 0			Samarium	LIQUID	.1	9.9470E-02			0.02	ug/mL	99.47	% Recovery	
52	LLS	S1006040043		0 5			Tin	LIQUID	.1	9.3520E-02			0.03	ug/mL	93.52	% Recovery	
47	LLS	S1006040043		0 0			Strontium	LIQUID	.02	1.9680E-02			3.00E-03	ug/mL	98.4	% Recovery	
52	LLS	S1006040043		0 5			Tantalum	LIQUID	1	9.6618E-01			0.05	ug/mL	96.618	% Recovery	
52	LLS	S1006040043		0 5			Tellurium	LIQUID	1	9.8865E-01			0.1	ug/mL	98.865	% Recovery	
50	LLS	S1006040043		0 3			Thorium	LIQUID	.1	9.2390E-02			0.05	ug/mL	92.39	% Recovery	
49	LLS	S1006040043		0 2			Titanium	LIQUID	.02	1.9370E-02			5.00E-03	ug/mL	96.85	% Recovery	
47	LLS	S1006040043		0 0			Thallium	LIQUID	.4	4.2005E-01			0.1	ug/mL	105.01	% Recovery	
49	LLS	S1006040043		0 2			Uranium	LIQUID	.5	5.1277E-01			0.1	ug/mL	102.55	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
49	LLS	S1006040043		0 2			Vanadium	LIQUID	.05	4.9630E-02			5.00E-03	ug/mL	99.26	% Recovery	
52	LLS	S1006040043		0 5			Tungsten	LIQUID	1	1.0106E+00			0.2	ug/mL	101.06	% Recovery	
50	LLS	S1006040043		0 3			Yttrium	LIQUID	.1	9.8890E-02			2.00E-03	ug/mL	98.89	% Recovery	
49	LLS	S1006040043		0 2			Zinc	LIQUID	.02	1.7650E-02			5.00E-03	ug/mL	88.25	% Recovery	
49	LLS	S1006040043		0 2			Zirconium	LIQUID	.02	1.9530E-02			5.00E-03	ug/mL	97.65	% Recovery	
Sample Sequence 53																	
53	CCB	S1006040040		0 0			Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Aluminum	LIQUID		<3.0000E-02			0.03	ug/mL			
53	CCB	S1006040040		0 0			Arsenic	LIQUID		<5.0000E-02			0.05	ug/mL			
53	CCB	S1006040040		0 0			Boron	LIQUID		<3.0000E-02			0.03	ug/mL			
53	CCB	S1006040040		0 0			Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL			
53	CCB	S1006040040		0 0			Calcium	LIQUID		<5.0000E-02			0.05	ug/mL			
53	CCB	S1006040040		0 0			Cadmium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL			
53	CCB	S1006040040		0 0			Cobalt	LIQUID		<1.0000E-02			0.01	ug/mL			
53	CCB	S1006040040		0 0			Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Iron	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL			
53	CCB	S1006040040		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Magnesium	LIQUID		<5.0000E-02			0.05	ug/mL			
53	CCB	S1006040040		0 0			Manganese	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL			
53	CCB	S1006040040		0 0			Sodium	LIQUID		<1.0000E-01			0.1	ug/mL			
53	CCB	S1006040040		0 0			Neodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
53	CCB	S1006040040		0 0			Nickel	LIQUID		<2.0000E-02			0.02	ug/mL			
53	CCB	S1006040040		0 0			Niobium	LIQUID		<3.0000E-02			0.03	ug/mL			
53	CCB	S1006040040		0 0			Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL			
53	CCB	S1006040040		0 0			Lead	LIQUID		<5.0000E-02			0.05	ug/mL			
53	CCB	S1006040040		0 0			Palladium	LIQUID		<1.0000E-01			0.1	ug/mL			
53	CCB	S1006040040		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
53	CCB	S1006040040		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL			
53	CCB	S1006040040		0 0			Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL			
53	CCB	S1006040040		0 0			Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL			
53	CCB	S1006040040		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL			
53	CCB	S1006040040		0 0			Antimony	LIQUID		<5.0000E-02			0.05	ug/mL			
53	CCB	S1006040040		0 0			Selenium	LIQUID		<1.0000E-01			0.1	ug/mL			
53	CCB	S1006040040		0 0			Silicon	LIQUID		<3.0000E-02			0.03	ug/mL			

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
53	CCB	S1006040040		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL			
53	CCB	S1006040040		0 0			Tin	LIQUID		<3.0000E-02			0.03	ug/mL			
53	CCB	S1006040040		0 0			Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL			
53	CCB	S1006040040		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL			
53	CCB	S1006040040		0 0			Thorium	LIQUID		<5.0000E-02			0.05	ug/mL			
53	CCB	S1006040040		0 0			Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Thallium	LIQUID		<1.0000E-01			0.1	ug/mL			
53	CCB	S1006040040		0 0			Uranium	LIQUID		<1.0000E-01			0.1	ug/mL			
53	CCB	S1006040040		0 0			Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Tungsten	LIQUID		<2.0000E-01			0.2	ug/mL			
53	CCB	S1006040040		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Zinc	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
53	CCB	S1006040040		0 0			Zirconium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019876

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00019876

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006040028	ICV				
2	S1006040028	ICV				
3	S1006040028	ICV				
4	S1006040028	ICV				
5	S1006040028	ICV				
6	S1006040030	LLS				
7	S1006040030	LLS				
8	S1006040030	LLS				
9	S1006040030	LLS				
10	S1006040030	LLS				
11	S1006040030	LLS				
12	S1006040029	ICB				
13	S1006040031	ICSA				
14	S1006040032	ICSAB				
15	S1006040032	ICSAB				
16	S1004280001	BLNK-PREP				
17	S1004280002	STD-PREP				
18	S1004280005	STD-PREP				
19	S1006040033	SERDIL	S10V000420			
20	S10V000420	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
21	S1004280003	DUP	S10V000420			
22	S1004280004	SPK-PREDIG	S10V000420			
23	S1004280008	SPK-PREDIG	S10V000420			
24	S1006040035	CCV				
25	S1006040035	CCV				
26	S1006040035	CCV				
27	S1006040036	CCB				
28	S1006040034	SPK-POST	S10V000420			
29	S1006040042	SPK-POST	S10V000420			
30	S1006040041	SPK-POST	S10V000420			
31	S10V000578	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
32	S09V001618	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
33	S09V001630	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
34	S09V001645	SAMPLE		20090877	B236P2	C Farm WMC 2010-1
35	S10V000088	SAMPLE		20090877	B238K3	C Farm WMC 2010-1

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LABCORE Completed Batch Report for Batch# 00019876

36	S10V000630	SAMPLE	20100213	B238J9	C Farm WMC 2010-1
37	S10V000639	SAMPLE	20100213	B25CN2	C Farm WMC 2010-1
38	S10V000657	SAMPLE	20100213	B23KP6	C Farm WMC 2010-1
39	S1006040037	ICSA			
40	S1006040038	ICSAB			
41	S1006040038	ICSAB			
42	S1006040039	CCV			
43	S1006040039	CCV			
44	S1006040039	CCV			
45	S1006040039	CCV			
46	S1006040039	CCV			
47	S1006040043	LLS			
48	S1006040043	LLS			
49	S1006040043	LLS			
50	S1006040043	LLS			
51	S1006040043	LLS			
52	S1006040043	LLS			
53	S1006040040	CCB			
54	S1006040040	CCB			

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LABCORE Completed Batch Report for Batch# 00020066

Analyst: Maling, Tracy

Book#:

Instrument: ICP-TJA

Method: ICP-TOTAL METALS, LA-505-161 Rev/Mod J-0-A

Specification: C Farm WMC 2010-1

Prep Batch: 00019100

Batch Comment: C Farm WMC 2010-1

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1006140018		0 0			Potassium	LIQUID	5	5.3244E+00			0.5	ug/mL	106.49	% Recovery	
Sample Sequence 2																	
2	LLS	S1006140020		0 0			Potassium	LIQUID	.5	3.6040E-01			0.1	ug/mL	72.08	% Recovery	
Sample Sequence 3																	
3	ICB	S1006140019		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL			
Sample Sequence 4																	
4	ICSA	S1006140021		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL	N/A		
Sample Sequence 5																	
5	ICSAB	S1006140022		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL	N/A		
Sample Sequence 6																	
6	BLNK-PREP	S1004280001		0 2	A		Potassium	LIQUID		<5.0000E-01			0.5	ug/mL			
Sample Sequence 7																	
7	STD-PREP	S1004280002		0 3	A		Potassium	LIQUID	5	5.1033E+00			0.5	ug/mL	102.07	% Recovery	
Sample Sequence 9																	
9	SERDIL	S1006140023	S10V000420	0 0			Potassium	SOLID		1.4828E+03			273.55	ug/g	2.1743	% Diff	
Sample Sequence 10																	
10	SAMPLE	S10V000420		0 2	A		Potassium	SOLID	N/A	1.4512E+03			54.709	ug/g			
Sample Sequence 11																	
11	DUP	S1004280003	S10V000420	0 2	A		Potassium	SOLID	1.4512E+03	1.4868E+03			51.704	ug/g	2.4234	% RPD	
Sample Sequence 12																	
12	SPK-PREDIG	S1004280004	S10V000420	0 2	A		Potassium	SOLID	59.4134702	1.6633E+03			59.413	ug/g	357.07	% Recovery	
Sample Sequence 14																	
14	CCV	S1006140025		0 0			Potassium	LIQUID	5	5.4685E+00			0.5	ug/mL	109.37	% Recovery	
Sample Sequence 15																	
15	CCB	S1006140026		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL			
Sample Sequence 16																	
16	SPK-POST	S1006140024	S10V000420	0 0			Potassium	SOLID	100	2.1768E+02			0.5	ug/g	85.055	% Recovery	
Sample Sequence 19																	
19	SAMPLE	S10V000578		0 2	A		Potassium	SOLID	N/A	1.3328E+03			52.669	ug/g			
Sample Sequence 20																	
20	SAMPLE	S09V001618		0 2	A		Potassium	SOLID	N/A	1.2497E+03			52.603	ug/g			
Sample Sequence 21																	
21	SAMPLE	S09V001630		0 2	A		Potassium	SOLID	N/A	1.0650E+03			52.92	ug/g			

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00020066

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 22																	
22	SAMPLE	S09V001645		0 2	A		Potassium	SOLID	N/A	1.1138E+03			53.503	ug/g			
Sample Sequence 23																	
23	SAMPLE	S10V000088		0 2	A		Potassium	SOLID	N/A	1.3009E+03			51.487	ug/g			
Sample Sequence 24																	
24	SAMPLE	S10V000630		0 2	A		Potassium	SOLID	N/A	9.4539E+02			52.24	ug/g			
Sample Sequence 25																	
25	SAMPLE	S10V000639		0 2	A		Potassium	SOLID	N/A	9.0681E+02			51.03	ug/g			
Sample Sequence 26																	
26	CCV	S1006140029		0 0			Potassium	LIQUID	5	5.3820E+00			0.5	ug/mL	107.64	% Recovery	
Sample Sequence 27																	
27	CCB	S1006140030		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL			
Sample Sequence 28																	
28	SAMPLE	S10V000657		0 2	A		Potassium	SOLID	N/A	9.2902E+02			53.792	ug/g			
Sample Sequence 29																	
29	ICSA	S1006140027		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL	N/A		
Sample Sequence 30																	
30	ICSAB	S1006140028		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL	N/A		
Sample Sequence 31																	
32	CCV	S1006140031		0 1			Potassium	LIQUID	5	4.7798E+00			0.5	ug/mL	95.597	% Recovery	
Sample Sequence 33																	
33	LLS	S1006140032		0 0			Potassium	LIQUID	.5	5.2202E-01			0.5	ug/mL	104.4	% Recovery	
Sample Sequence 34																	
34	CCB	S1006140033		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00020066

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020066

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006140018	ICV				
2	S1006140020	LLS				
3	S1006140019	ICB				
4	S1006140021	ICSA				
5	S1006140022	ICSAB				
6	S1004280001	BLNK-PREP				
7	S1004280002	STD-PREP				
8	S1004280002	STD-PREP				
9	S1006140023	SERDIL	S10V000420			
10	S10V000420	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
11	S1004280003	DUP	S10V000420			
12	S1004280004	SPK-PREDIG	S10V000420			
13	S1004280004	SPK-PREDIG	S10V000420			
14	S1006140025	CCV				
15	S1006140026	CCB				
16	S1006140024	SPK-POST	S10V000420			
17	S1006140024	SPK-POST	S10V000420			
18	S1006140024	SPK-POST	S10V000420			
19	S10V000578	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
20	S09V001618	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
21	S09V001630	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
22	S09V001645	SAMPLE		20090877	B236P2	C Farm WMC 2010-1
23	S10V000088	SAMPLE		20090877	B238K3	C Farm WMC 2010-1
24	S10V000630	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
25	S10V000639	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
26	S1006140029	CCV				
27	S1006140030	CCB				
28	S10V000657	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
29	S1006140027	ICSA				
30	S1006140028	ICSAB				
31	S1006140031	CCV				
32	S1006140031	CCV				
33	S1006140032	LLS				
34	S1006140033	CCB				

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LABCORE Completed Batch Report for Batch# 00020874

Analyst: Thorndike, Kathy

Book#:

Instrument: ICP-TJA

Method: ICP-TOTAL METALS, LA-505-161 Rev/Mod J-0-A

Specification: C Farm WMC 2010-1

Prep Batch: 00020611

Batch Comment: C-Farm Total Metals ICP TJA trm

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1007210041		0 0			Silver	LIQUID	1	9.4417E-01			5.00E-03	ug/mL	94.417	% Recovery	
1	ICV	S1007210041		0 0			Aluminum	LIQUID	5	4.9664E+00			0.03	ug/mL	99.328	% Recovery	
1	ICV	S1007210041		0 0			Arsenic	LIQUID	5	4.7715E+00			0.05	ug/mL	95.43	% Recovery	
1	ICV	S1007210041		0 0			Boron	LIQUID	5	4.8724E+00			0.03	ug/mL	97.447	% Recovery	
1	ICV	S1007210041		0 0			Barium	LIQUID	5	4.8569E+00			3.00E-03	ug/mL	97.137	% Recovery	
1	ICV	S1007210041		0 0			Beryllium	LIQUID	5	5.0175E+00			1.00E-03	ug/mL	100.35	% Recovery	
1	ICV	S1007210041		0 0			Bismuth	LIQUID	5	4.8215E+00			0.1	ug/mL	96.43	% Recovery	
1	ICV	S1007210041		0 0			Calcium	LIQUID	5	4.9492E+00			0.05	ug/mL	98.984	% Recovery	
1	ICV	S1007210041		0 0			Cadmium	LIQUID	5	5.0483E+00			5.00E-03	ug/mL	100.97	% Recovery	
2	ICV	S1007210041		0 1			Cerium	LIQUID	5	5.0894E+00			0.03	ug/mL	101.79	% Recovery	
1	ICV	S1007210041		0 0			Cobalt	LIQUID	5	4.9942E+00			0.01	ug/mL	99.883	% Recovery	
1	ICV	S1007210041		0 0			Chromium	LIQUID	5	5.0851E+00			5.00E-03	ug/mL	101.7	% Recovery	
1	ICV	S1007210041		0 0			Copper	LIQUID	5	4.8411E+00			5.00E-03	ug/mL	96.822	% Recovery	
2	ICV	S1007210041		0 1			Europium	LIQUID	5	4.7064E+00			5.00E-03	ug/mL	94.128	% Recovery	
1	ICV	S1007210041		0 0			Iron	LIQUID	5	5.0156E+00			5.00E-03	ug/mL	100.31	% Recovery	
1	ICV	S1007210041		0 0			Potassium	LIQUID	5	4.7349E+00			0.5	ug/mL	94.698	% Recovery	
1	ICV	S1007210041		0 0			Lanthanum	LIQUID	5	4.8091E+00			3.00E-03	ug/mL	96.182	% Recovery	
1	ICV	S1007210041		0 0			Lithium	LIQUID	5	4.9342E+00			3.00E-03	ug/mL	98.684	% Recovery	
1	ICV	S1007210041		0 0			Magnesium	LIQUID	5	4.9394E+00			0.05	ug/mL	98.788	% Recovery	
1	ICV	S1007210041		0 0			Manganese	LIQUID	5	5.0218E+00			3.00E-03	ug/mL	100.44	% Recovery	
1	ICV	S1007210041		0 0			Molybdenum	LIQUID	5	4.8585E+00			0.02	ug/mL	97.17	% Recovery	
1	ICV	S1007210041		0 0			Sodium	LIQUID	5	4.9138E+00			0.1	ug/mL	98.277	% Recovery	
2	ICV	S1007210041		0 1			Neodymium	LIQUID	5	5.0450E+00			0.01	ug/mL	100.9	% Recovery	
1	ICV	S1007210041		0 0			Nickel	LIQUID	5	4.9648E+00			0.02	ug/mL	99.296	% Recovery	
3	ICV	S1007210041		0 2			Niobium	LIQUID	5	5.1022E+00			0.03	ug/mL	102.04	% Recovery	
1	ICV	S1007210041		0 0			Phosphorus	LIQUID	5	4.7034E+00			0.05	ug/mL	94.068	% Recovery	
1	ICV	S1007210041		0 0			Lead	LIQUID	5	5.0773E+00			0.05	ug/mL	101.55	% Recovery	
2	ICV	S1007210041		0 1			Palladium	LIQUID	5	4.7940E+00			0.1	ug/mL	95.88	% Recovery	
2	ICV	S1007210041		0 1			Praseodymium	LIQUID	5	4.7612E+00			0.01	ug/mL	95.224	% Recovery	
2	ICV	S1007210041		0 1			Rubidium	LIQUID	5	4.5551E+00			1	ug/mL	91.102	% Recovery	
2	ICV	S1007210041		0 1			Rhodium	LIQUID	5	4.8665E+00			0.05	ug/mL	97.33	% Recovery	

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
2	ICV	S1007210041		0 1			Ruthenium	LIQUID	5	4.8604E+00			0.03	ug/mL	97.208	% Recovery	
1	ICV	S1007210041		0 0			Sulfur	LIQUID	5	4.8667E+00			0.1	ug/mL	97.334	% Recovery	
1	ICV	S1007210041		0 0			Antimony	LIQUID	5	4.8240E+00			0.05	ug/mL	96.481	% Recovery	
1	ICV	S1007210041		0 0			Selenium	LIQUID	5	5.0350E+00			0.1	ug/mL	100.7	% Recovery	
1	ICV	S1007210041		0 0			Silicon	LIQUID	5	4.7621E+00			0.03	ug/mL	95.242	% Recovery	
2	ICV	S1007210041		0 1			Samarium	LIQUID	5	4.8755E+00			0.02	ug/mL	97.51	% Recovery	
3	ICV	S1007210041		0 2			Tin	LIQUID	5	5.1617E+00			0.03	ug/mL	103.23	% Recovery	
1	ICV	S1007210041		0 0			Strontium	LIQUID	5	4.8701E+00			3.00E-03	ug/mL	97.402	% Recovery	
3	ICV	S1007210041		0 2			Tantalum	LIQUID	5	5.1929E+00			0.05	ug/mL	103.86	% Recovery	
3	ICV	S1007210041		0 2			Tellurium	LIQUID	5	5.2291E+00			0.1	ug/mL	104.58	% Recovery	
2	ICV	S1007210041		0 1			Thorium	LIQUID	5	5.0104E+00			0.05	ug/mL	100.21	% Recovery	
1	ICV	S1007210041		0 0			Titanium	LIQUID	5	4.7967E+00			5.00E-03	ug/mL	95.934	% Recovery	
2	ICV	S1007210041		0 1			Thallium	LIQUID	5	4.9142E+00			0.1	ug/mL	98.285	% Recovery	
2	ICV	S1007210041		0 1			Uranium	LIQUID	5	5.0993E+00			0.1	ug/mL	101.99	% Recovery	
1	ICV	S1007210041		0 0			Vanadium	LIQUID	5	5.0936E+00			5.00E-03	ug/mL	101.87	% Recovery	
3	ICV	S1007210041		0 2			Tungsten	LIQUID	5	5.1481E+00			0.2	ug/mL	102.96	% Recovery	
2	ICV	S1007210041		0 1			Yttrium	LIQUID	5	4.8401E+00			2.00E-03	ug/mL	96.803	% Recovery	
1	ICV	S1007210041		0 0			Zinc	LIQUID	5	5.0343E+00			5.00E-03	ug/mL	100.69	% Recovery	
1	ICV	S1007210041		0 0			Zirconium	LIQUID	5	4.6332E+00			5.00E-03	ug/mL	92.663	% Recovery	
Sample Sequence 4																	
4	LLS	S1007210043		0 0			Silver	LIQUID	.02	1.8310E-02			5.00E-03	ug/mL	91.55	% Recovery	
4	LLS	S1007210043		0 0			Aluminum	LIQUID	.1	8.2510E-02			0.03	ug/mL	82.51	% Recovery	
4	LLS	S1007210043		0 0			Arsenic	LIQUID	.2	1.8915E-01			0.05	ug/mL	94.575	% Recovery	
5	LLS	S1007210043		0 1			Boron	LIQUID	.1	1.0055E-01			0.03	ug/mL	100.55	% Recovery	
4	LLS	S1007210043		0 0			Barium	LIQUID	.01	9.9700E-03			3.00E-03	ug/mL	99.7	% Recovery	
4	LLS	S1007210043		0 0			Beryllium	LIQUID	.001	7.9000E-04			1.00E-04	ug/mL	79	% Recovery	
4	LLS	S1007210043		0 0			Bismuth	LIQUID	.2	2.2231E-01			0.1	ug/mL	111.16	% Recovery	
4	LLS	S1007210043		0 0			Calcium	LIQUID	.2	1.7813E-01			0.05	ug/mL	89.065	% Recovery	
4	LLS	S1007210043		0 0			Cadmium	LIQUID	.01	7.0200E-03			5.00E-03	ug/mL	70.2	% Recovery	
4	LLS	S1007210043		0 0			Cerium	LIQUID	.2	2.1888E-01			0.03	ug/mL	109.44	% Recovery	
5	LLS	S1007210043		0 1			Cobalt	LIQUID	.04	3.8600E-02			0.01	ug/mL	96.5	% Recovery	
4	LLS	S1007210043		0 0			Chromium	LIQUID	.02	1.9190E-02			5.00E-03	ug/mL	95.95	% Recovery	
5	LLS	S1007210043		0 1			Copper	LIQUID	.02	1.9660E-02			5.00E-03	ug/mL	98.3	% Recovery	
6	LLS	S1007210043		0 2			Europium	LIQUID	.1	9.5440E-02			5.00E-03	ug/mL	95.44	% Recovery	
4	LLS	S1007210043		0 0			Iron	LIQUID	.05	5.0630E-02			5.00E-03	ug/mL	101.26	% Recovery	
4	LLS	S1007210043		0 0			Potassium	LIQUID	.5	5.8553E-01			0.5	ug/mL	117.11	% Recovery	
4	LLS	S1007210043		0 0			Lanthanum	LIQUID	.01	9.7200E-03			3.00E-03	ug/mL	97.2	% Recovery	
4	LLS	S1007210043		0 0			Lithium	LIQUID	.02	2.1490E-02			3.00E-03	ug/mL	107.45	% Recovery	
4	LLS	S1007210043		0 0			Magnesium	LIQUID	.2	1.9374E-01			0.05	ug/mL	96.87	% Recovery	
4	LLS	S1007210043		0 0			Manganese	LIQUID	.02	1.7980E-02			3.00E-03	ug/mL	89.9	% Recovery	
5	LLS	S1007210043		0 1			Molybdenum	LIQUID	.1	9.6380E-02			0.02	ug/mL	96.38	% Recovery	
4	LLS	S1007210043		0 0			Sodium	LIQUID	.2	2.2534E-01			0.1	ug/mL	112.67	% Recovery	

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
4	LLS	S1007210043		0 0			Neodymium	LIQUID	.1	1.0217E-01			0.01	ug/mL	102.17	% Recovery	
4	LLS	S1007210043		0 0			Nickel	LIQUID	.04	2.8470E-02			0.02	ug/mL	71.175	% Recovery	
8	LLS	S1007210043		0 4			Niobium	LIQUID	.1	9.3680E-02			0.03	ug/mL	93.68	% Recovery	
5	LLS	S1007210043		0 1			Phosphorus	LIQUID	.4	3.9175E-01			0.05	ug/mL	97.938	% Recovery	
4	LLS	S1007210043		0 0			Lead	LIQUID	.2	2.0268E-01			0.05	ug/mL	101.34	% Recovery	
7	LLS	S1007210043		0 3			Palladium	LIQUID	1	1.0860E+00			0.1	ug/mL	108.6	% Recovery	
6	LLS	S1007210043		0 2			Praseodymium	LIQUID	.1	9.6510E-02			0.01	ug/mL	96.51	% Recovery	
6	LLS	S1007210043		0 2			Rubidium	LIQUID	1	9.6578E-01			0.1	ug/mL	96.578	% Recovery	
7	LLS	S1007210043		0 3			Rhodium	LIQUID	.1	1.2031E-01			0.05	ug/mL	120.31	% Recovery	
7	LLS	S1007210043		0 3			Ruthenium	LIQUID	.1	1.0904E-01			0.03	ug/mL	109.04	% Recovery	
5	LLS	S1007210043		0 1			Sulfur	LIQUID	.2	2.1535E-01			0.1	ug/mL	107.68	% Recovery	
5	LLS	S1007210043		0 1			Antimony	LIQUID	.1	8.2590E-02			0.05	ug/mL	82.59	% Recovery	
4	LLS	S1007210043		0 0			Selenium	LIQUID	.2	1.6529E-01			0.1	ug/mL	82.645	% Recovery	
5	LLS	S1007210043		0 1			Silicon	LIQUID	.1	8.9570E-02			0.03	ug/mL	89.57	% Recovery	
4	LLS	S1007210043		0 0			Samarium	LIQUID	.1	1.0521E-01			0.02	ug/mL	105.21	% Recovery	
8	LLS	S1007210043		0 4			Tin	LIQUID	.1	1.2113E-01			0.03	ug/mL	121.13	% Recovery	
4	LLS	S1007210043		0 0			Strontium	LIQUID	.02	2.0180E-02			3.00E-03	ug/mL	100.9	% Recovery	
8	LLS	S1007210043		0 4			Tantalum	LIQUID	1	1.0297E+00			0.05	ug/mL	102.97	% Recovery	
8	LLS	S1007210043		0 4			Tellurium	LIQUID	1	1.0221E+00			0.1	ug/mL	102.21	% Recovery	
6	LLS	S1007210043		0 2			Thorium	LIQUID	.1	1.0004E-01			0.05	ug/mL	100.04	% Recovery	
5	LLS	S1007210043		0 1			Titanium	LIQUID	.02	2.0330E-02			5.00E-03	ug/mL	101.65	% Recovery	
4	LLS	S1007210043		0 0			Thallium	LIQUID	.4	3.7187E-01			0.1	ug/mL	92.968	% Recovery	
5	LLS	S1007210043		0 1			Uranium	LIQUID	.5	4.9495E-01			0.1	ug/mL	98.99	% Recovery	
5	LLS	S1007210043		0 1			Vanadium	LIQUID	.05	4.8870E-02			5.00E-03	ug/mL	97.74	% Recovery	
8	LLS	S1007210043		0 4			Tungsten	LIQUID	1	1.0450E+00			0.2	ug/mL	104.5	% Recovery	
6	LLS	S1007210043		0 2			Yttrium	LIQUID	.1	9.8700E-02			2.00E-03	ug/mL	98.7	% Recovery	
5	LLS	S1007210043		0 1			Zinc	LIQUID	.02	1.7850E-02			5.00E-03	ug/mL	89.25	% Recovery	
5	LLS	S1007210043		0 1			Zirconium	LIQUID	.02	1.7950E-02			5.00E-03	ug/mL	89.75	% Recovery	
Sample Sequence 9																	
9	ICB	S1007210042		0 0			Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Aluminum	LIQUID		<3.0000E-02			0.03	ug/mL			
9	ICB	S1007210042		0 0			Arsenic	LIQUID		<5.0000E-02			0.05	ug/mL			
9	ICB	S1007210042		0 0			Boron	LIQUID		<3.0000E-02			0.03	ug/mL			
9	ICB	S1007210042		0 0			Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL			
9	ICB	S1007210042		0 0			Calcium	LIQUID		<5.0000E-02			0.05	ug/mL			
9	ICB	S1007210042		0 0			Cadmium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL			
9	ICB	S1007210042		0 0			Cobalt	LIQUID		<1.0000E-02			0.01	ug/mL			
9	ICB	S1007210042		0 0			Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL			

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
9	ICB	S1007210042		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Iron	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL			
9	ICB	S1007210042		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Magnesium	LIQUID		<5.0000E-02			0.05	ug/mL			
9	ICB	S1007210042		0 0			Manganese	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL			
9	ICB	S1007210042		0 0			Sodium	LIQUID		<1.0000E-01			0.1	ug/mL			
9	ICB	S1007210042		0 0			Neodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
9	ICB	S1007210042		0 0			Nickel	LIQUID		<2.0000E-02			0.02	ug/mL			
9	ICB	S1007210042		0 0			Niobium	LIQUID		<3.0000E-02			0.03	ug/mL			
9	ICB	S1007210042		0 0			Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL			
9	ICB	S1007210042		0 0			Lead	LIQUID		<5.0000E-02			0.05	ug/mL			
9	ICB	S1007210042		0 0			Palladium	LIQUID		<1.0000E-01			0.1	ug/mL			
9	ICB	S1007210042		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
9	ICB	S1007210042		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL			
9	ICB	S1007210042		0 0			Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL			
9	ICB	S1007210042		0 0			Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL			
9	ICB	S1007210042		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL			
9	ICB	S1007210042		0 0			Antimony	LIQUID		<5.0000E-02			0.05	ug/mL			
9	ICB	S1007210042		0 0			Selenium	LIQUID		<1.0000E-01			0.1	ug/mL			
9	ICB	S1007210042		0 0			Silicon	LIQUID		<3.0000E-02			0.03	ug/mL			
9	ICB	S1007210042		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL			
9	ICB	S1007210042		0 0			Tin	LIQUID		<3.0000E-02			0.03	ug/mL			
9	ICB	S1007210042		0 0			Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL			
9	ICB	S1007210042		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL			
9	ICB	S1007210042		0 0			Thorium	LIQUID		<5.0000E-02			0.05	ug/mL			
9	ICB	S1007210042		0 0			Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Thallium	LIQUID		<1.0000E-01			0.1	ug/mL			
9	ICB	S1007210042		0 0			Uranium	LIQUID		<1.0000E-01			0.1	ug/mL			
9	ICB	S1007210042		0 0			Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Tungsten	LIQUID		<2.0000E-01			0.2	ug/mL			
9	ICB	S1007210042		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Zinc	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
9	ICB	S1007210042		0 0			Zirconium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
Sample Sequence 10																	
10	ICSA	S1007210044		0 0			Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Aluminum	LIQUID	200	2.0595E+02			0.03	ug/mL	102.98	% Recovery	
10	ICSA	S1007210044		0 0			Arsenic	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Boron	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
10	ICSA	S1007210044		0 0			Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Calcium	LIQUID	200	2.2337E+02			0.05	ug/mL	111.68	% Recovery	
10	ICSA	S1007210044		0 0			Cadmium	LIQUID		1.0790E-02			5.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Cobalt	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Europium	LIQUID		1.3890E-02			5.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Iron	LIQUID	200	1.9808E+02			5.00E-03	ug/mL	99.038	% Recovery	
10	ICSA	S1007210044		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Magnesium	LIQUID	200	1.8874E+02			0.05	ug/mL	94.372	% Recovery	
10	ICSA	S1007210044		0 0			Manganese	LIQUID		3.3600E-03			3.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Sodium	LIQUID	200	1.7089E+02			0.1	ug/mL	85.445	% Recovery	
10	ICSA	S1007210044		0 0			Neodymium	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Nickel	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Niobium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Lead	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Palladium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Antimony	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Selenium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Silicon	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Tin	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Thorium	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Thallium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Uranium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Tungsten	LIQUID		<2.0000E-01			0.2	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL	N/A		

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
10	ICSA	S1007210044		0 0			Zinc	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
10	ICSA	S1007210044		0 0			Zirconium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
Sample Sequence 11																	
11	ICSAB	S1007210045		0 0			Silver	LIQUID	1	1.0540E+00			5.00E-03	ug/mL	105.4	% Recovery	
11	ICSAB	S1007210045		0 0			Aluminum	LIQUID	200	2.0242E+02			0.03	ug/mL	101.21	% Recovery	
11	ICSAB	S1007210045		0 0			Arsenic	LIQUID	5	5.0284E+00			0.05	ug/mL	100.57	% Recovery	
11	ICSAB	S1007210045		0 0			Boron	LIQUID	1	1.0063E+00			0.03	ug/mL	100.63	% Recovery	
11	ICSAB	S1007210045		0 0			Barium	LIQUID	1	9.1740E-01			3.00E-03	ug/mL	91.74	% Recovery	
11	ICSAB	S1007210045		0 0			Beryllium	LIQUID	.1	9.1760E-02			1.00E-03	ug/mL	91.76	% Recovery	
11	ICSAB	S1007210045		0 0			Bismuth	LIQUID	5	5.2402E+00			0.1	ug/mL	104.8	% Recovery	
11	ICSAB	S1007210045		0 0			Calcium	LIQUID	200	2.1720E+02			0.05	ug/mL	108.6	% Recovery	
11	ICSAB	S1007210045		0 0			Cadmium	LIQUID	.2	2.2271E-01			5.00E-03	ug/mL	111.36	% Recovery	
11	ICSAB	S1007210045		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Cobalt	LIQUID	5	5.1105E+00			0.01	ug/mL	102.21	% Recovery	
11	ICSAB	S1007210045		0 0			Chromium	LIQUID	5	5.1337E+00			5.00E-03	ug/mL	102.67	% Recovery	
11	ICSAB	S1007210045		0 0			Copper	LIQUID	5	4.9414E+00			5.00E-03	ug/mL	98.828	% Recovery	
11	ICSAB	S1007210045		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Iron	LIQUID	200	1.9512E+02			5.00E-03	ug/mL	97.561	% Recovery	
11	ICSAB	S1007210045		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Lithium	LIQUID	1	8.7901E-01			3.00E-03	ug/mL	87.901	% Recovery	
11	ICSAB	S1007210045		0 0			Magnesium	LIQUID	200	1.8473E+02			0.05	ug/mL	92.367	% Recovery	
11	ICSAB	S1007210045		0 0			Manganese	LIQUID	5	5.0617E+00			3.00E-03	ug/mL	101.23	% Recovery	
11	ICSAB	S1007210045		0 0			Molybdenum	LIQUID	5	4.7596E+00			0.02	ug/mL	95.193	% Recovery	
11	ICSAB	S1007210045		0 0			Sodium	LIQUID	200	1.6295E+02			0.1	ug/mL	81.475	% Recovery	
11	ICSAB	S1007210045		0 0			Neodymium	LIQUID		6.5020E-02			0.01	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Nickel	LIQUID	5	5.0588E+00			0.02	ug/mL	101.18	% Recovery	
11	ICSAB	S1007210045		0 0			Niobium	LIQUID	5	4.7991E+00			0.03	ug/mL	95.982	% Recovery	
11	ICSAB	S1007210045		0 0			Phosphorus	LIQUID	1	9.4211E-01			0.05	ug/mL	94.211	% Recovery	
11	ICSAB	S1007210045		0 0			Lead	LIQUID	1	8.0236E-01			0.05	ug/mL	80.236	% Recovery	
11	ICSAB	S1007210045		0 0			Palladium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Rhodium	LIQUID	1	1.0589E+00			0.05	ug/mL	105.89	% Recovery	
11	ICSAB	S1007210045		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Antimony	LIQUID	5	4.9479E+00			0.05	ug/mL	98.958	% Recovery	
11	ICSAB	S1007210045		0 0			Selenium	LIQUID	5	5.1351E+00			0.1	ug/mL	102.7	% Recovery	
11	ICSAB	S1007210045		0 0			Silicon	LIQUID	5	4.9272E+00			0.03	ug/mL	98.545	% Recovery	
11	ICSAB	S1007210045		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Tin	LIQUID	1	9.1800E-01			0.03	ug/mL	91.8	% Recovery	
11	ICSAB	S1007210045		0 0			Strontium	LIQUID	1	9.3935E-01			3.00E-03	ug/mL	93.935	% Recovery	
11	ICSAB	S1007210045		0 0			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
11	ICSAB	S1007210045		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Thorium	LIQUID	5	4.7086E+00			0.05	ug/mL	94.173	% Recovery	
11	ICSAB	S1007210045		0 0			Titanium	LIQUID	50	4.7478E+01			5.00E-03	ug/mL	94.955	% Recovery	
11	ICSAB	S1007210045		0 0			Thallium	LIQUID	5	4.5846E+00			0.1	ug/mL	91.692	% Recovery	
11	ICSAB	S1007210045		0 0			Uranium	LIQUID	5	4.6069E+00			0.1	ug/mL	92.138	% Recovery	
11	ICSAB	S1007210045		0 0			Vanadium	LIQUID	1	1.0156E+00			5.00E-03	ug/mL	101.56	% Recovery	
11	ICSAB	S1007210045		0 0			Tungsten	LIQUID	5	4.3796E+00			0.2	ug/mL	87.591	% Recovery	
11	ICSAB	S1007210045		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL	N/A		
11	ICSAB	S1007210045		0 0			Zinc	LIQUID	5	5.1119E+00			5.00E-03	ug/mL	102.24	% Recovery	
11	ICSAB	S1007210045		0 0			Zirconium	LIQUID	5	4.0815E+00			5.00E-03	ug/mL	81.63	% Recovery	
Sample Sequence 12																	
12	BLNK-PREP	S1007140021		0 0	A		Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Aluminum	LIQUID		<3.0000E-02			0.03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Arsenic	LIQUID		<5.0000E-02			0.05	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Boron	LIQUID		<3.0000E-02			0.03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Calcium	LIQUID		1.4123E-01			0.05	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Cadmium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Cerium	LIQUID		<3.0000E-02			0.03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Cobalt	LIQUID		<1.0000E-02			0.01	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Iron	LIQUID		9.5900E-03			5.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Potassium	LIQUID		<5.0000E-01			0.5	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Magnesium	LIQUID		<5.0000E-02			0.05	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Manganese	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Sodium	LIQUID		<1.0000E-01			0.1	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Neodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Nickel	LIQUID		<2.0000E-02			0.02	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Niobium	LIQUID		<3.0000E-02			0.03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Lead	LIQUID		<5.0000E-02			0.05	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Palladium	LIQUID		<1.0000E-01			0.1	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Rubidium	LIQUID		<1.0000E+00			1	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL			

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Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
12	BLNK-PREP	S1007140021		0 0	A		Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Antimony	LIQUID		<5.0000E-02			0.05	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Selenium	LIQUID		<1.0000E-01			0.1	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Silicon	LIQUID		<3.0000E-02			0.03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Samarium	LIQUID		<2.0000E-02			0.02	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Tin	LIQUID		<3.0000E-02			0.03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Thorium	LIQUID		<5.0000E-02			0.05	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Thallium	LIQUID		<1.0000E-01			0.1	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Uranium	LIQUID		<1.0000E-01			0.1	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Tungsten	LIQUID		<2.0000E-01			0.2	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Zinc	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
12	BLNK-PREP	S1007140021		0 0	A		Zirconium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
Sample Sequence 13																	
13	SERDIL	S1007210046	S10V000666	0 0			Aluminum	SOLID		8.5394E+03			14.949	ug/g	.085393	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Barium	SOLID		8.0902E+01			1.4949	ug/g	3.2146	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Beryllium	SOLID		<4.9832E-01			0.49832	ug/g	N/A		
13	SERDIL	S1007210046	S10V000666	0 0			Calcium	SOLID		8.4894E+03			24.916	ug/g	3.7034	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Cadmium	SOLID		<2.4916E+00			2.4916	ug/g	N/A		
13	SERDIL	S1007210046	S10V000666	0 0			Cerium	SOLID		2.4608E+01			14.949	ug/g	34.513	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Cobalt	SOLID		5.7213E+00			4.9832	ug/g	30.628	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Chromium	SOLID		1.7723E+01			2.4916	ug/g	.32094	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Copper	SOLID		1.1078E+01			2.4916	ug/g	3.8496	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Iron	SOLID		2.0696E+04			2.4916	ug/g	5.9789	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Potassium	SOLID		1.2985E+03			249.16	ug/g	3.7589	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Lanthanum	SOLID		9.4290E+00			1.4949	ug/g	7.1225	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Lithium	SOLID		9.5014E+00			1.4949	ug/g	.26049	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Magnesium	SOLID		5.6899E+03			24.916	ug/g	4.0402	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Manganese	SOLID		3.6871E+02			1.4949	ug/g	4.3385	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Molybdenum	SOLID		<9.9663E+00			9.9663	ug/g	N/A		
13	SERDIL	S1007210046	S10V000666	0 0			Sodium	SOLID		2.9130E+02			49.832	ug/g	1.6614	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Neodymium	SOLID		1.4219E+01			4.9832	ug/g	20.632	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Nickel	SOLID		<9.9663E+00			9.9663	ug/g	N/A		
13	SERDIL	S1007210046	S10V000666	0 0			Phosphorus	SOLID		6.0821E+02			24.916	ug/g	1.1505	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Sulfur	SOLID		<4.9832E+01			49.832	ug/g	N/A		
13	SERDIL	S1007210046	S10V000666	0 0			Silicon	SOLID		1.3410E+02			14.949	ug/g	.41552	% Diff	

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
13	SERDIL	S1007210046	S10V000666	0 0			Strontium	SOLID		4.7665E+01			1.4949	ug/g	3.4148	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Titanium	SOLID		1.2426E+03			2.4916	ug/g	4.3475	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Vanadium	SOLID		4.6934E+01			2.4916	ug/g	2.6451	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Yttrium	SOLID		7.3717E+00			0.99663	ug/g	2.8703	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Zinc	SOLID		3.6512E+01			2.4916	ug/g	.49629	% Diff	
13	SERDIL	S1007210046	S10V000666	0 0			Zirconium	SOLID		1.0629E+01			2.4916	ug/g	1.5599	% Diff	
Sample Sequence 14																	
14	SAMPLE	S10V000666		0 1	A		Aluminum	SOLID	N/A	8.5321E+03			2.9899	ug/g			
14	SAMPLE	S10V000666		0 1	A		Barium	SOLID	N/A	7.8382E+01			0.29899	ug/g			
14	SAMPLE	S10V000666		0 1	A		Beryllium	SOLID	N/A	1.7282E-01			0.099663	ug/g			J
14	SAMPLE	S10V000666		0 1	A		Calcium	SOLID	N/A	8.1862E+03			4.9832	ug/g			
14	SAMPLE	S10V000666		0 1	A		Cerium	SOLID	N/A	1.8294E+01			2.9899	ug/g			J
14	SAMPLE	S10V000666		0 1	A		Cobalt	SOLID	N/A	8.2472E+00			0.99663	ug/g			J
14	SAMPLE	S10V000666		0 1	A		Chromium	SOLID	N/A	1.7666E+01			0.49832	ug/g			
14	SAMPLE	S10V000666		0 1	A		Copper	SOLID	N/A	1.1522E+01			0.49832	ug/g			
14	SAMPLE	S10V000666		0 1	A		Iron	SOLID	N/A	1.9528E+04			0.49832	ug/g			
14	SAMPLE	S10V000666		0 1	A		Potassium	SOLID	N/A	1.2515E+03			49.832	ug/g			
14	SAMPLE	S10V000666		0 1	A		Lanthanum	SOLID	N/A	8.8021E+00			0.29899	ug/g			
14	SAMPLE	S10V000666		0 1	A		Lithium	SOLID	N/A	9.5262E+00			0.29899	ug/g			
14	SAMPLE	S10V000666		0 1	A		Magnesium	SOLID	N/A	5.4689E+03			4.9832	ug/g			
14	SAMPLE	S10V000666		0 1	A		Manganese	SOLID	N/A	3.5338E+02			0.29899	ug/g			
14	SAMPLE	S10V000666		0 1	A		Molybdenum	SOLID	N/A	<1.9933E+00			1.9933	ug/g			U
14	SAMPLE	S10V000666		0 1	A		Sodium	SOLID	N/A	2.8654E+02			9.9663	ug/g			
14	SAMPLE	S10V000666		0 1	A		Nickel	SOLID	N/A	2.0221E+01			1.9933	ug/g			c
14	SAMPLE	S10V000666		0 1	A		Phosphorus	SOLID	N/A	6.0129E+02			4.9832	ug/g			
14	SAMPLE	S10V000666		0 1	A		Sulfur	SOLID	N/A	3.2832E+01			9.9663	ug/g			J
14	SAMPLE	S10V000666		0 1	A		Silicon	SOLID	N/A	1.3355E+02			2.9899	ug/g			a
14	SAMPLE	S10V000666		0 1	A		Strontium	SOLID	N/A	4.6091E+01			0.29899	ug/g			
14	SAMPLE	S10V000666		0 1	A		Titanium	SOLID	N/A	1.1908E+03			0.49832	ug/g			
14	SAMPLE	S10V000666		0 1	A		Vanadium	SOLID	N/A	4.5725E+01			0.49832	ug/g			
14	SAMPLE	S10V000666		0 1	A		Yttrium	SOLID	N/A	7.1660E+00			0.19933	ug/g			
14	SAMPLE	S10V000666		0 1	A		Zinc	SOLID	N/A	3.6694E+01			0.49832	ug/g			
14	SAMPLE	S10V000666		0 1	A		Zirconium	SOLID	N/A	1.0797E+01			0.49832	ug/g			b
Sample Sequence 15																	
15	DUP	S1007140023	S10V000666	0 0	A		Aluminum	SOLID	8.5321E+03	8.1418E+03			2.9972	ug/g	4.6821	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Barium	SOLID	7.8382E+01	6.7836E+01			0.29972	ug/g	14.425	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Beryllium	SOLID	1.7282E-01	1.7633E-01			0.099906	ug/g	2.0130	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Calcium	SOLID	8.1862E+03	8.0575E+03			4.9953	ug/g	1.5843	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Cadmium	SOLID		2.2927E+00			0.49953	ug/g			
15	DUP	S1007140023	S10V000666	0 0	A		Cobalt	SOLID	8.2472E+00	7.6563E+00			0.99906	ug/g	7.4314	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Chromium	SOLID	1.7666E+01	1.6495E+01			0.49953	ug/g	6.8551	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Copper	SOLID	1.1522E+01	1.1306E+01			0.49953	ug/g	1.8955	% RPD	

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
15	DUP	S1007140023	S10V000666	0 0	A		Iron	SOLID	1.9528E+04	1.9203E+04			0.49953	ug/g	1.6782	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Potassium	SOLID	1.2515E+03	1.1316E+03			49.953	ug/g	10.066	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Lithium	SOLID	9.5262E+00	8.9599E+00			0.29972	ug/g	6.1268	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Magnesium	SOLID	5.4689E+03	4.5973E+03			4.9953	ug/g	17.318	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Manganese	SOLID	3.5338E+02	3.0537E+02			0.29972	ug/g	14.576	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Molybdenum	SOLID	<1.9933E+00	<1.9981E+00			1.9981	ug/g			
15	DUP	S1007140023	S10V000666	0 0	A		Sodium	SOLID	2.8654E+02	2.5917E+02			9.9906	ug/g	10.033	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Nickel	SOLID	2.0221E+01	1.2039E+01			1.9981	ug/g	50.726	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Phosphorus	SOLID	6.0129E+02	5.9279E+02			4.9953	ug/g	1.4232	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Strontium	SOLID	4.6091E+01	3.5894E+01			0.29972	ug/g	24.876	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Vanadium	SOLID	4.5725E+01	4.4832E+01			0.49953	ug/g	1.9726	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Zinc	SOLID	3.6694E+01	3.6837E+01			0.49953	ug/g	0.38956	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Bismuth	SOLID		<9.9906E+00			9.9906	ug/g			
15	DUP	S1007140023	S10V000666	0 0	A		Cerium	SOLID	1.8294E+01	1.8446E+01			2.9972	ug/g	0.82762	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Lanthanum	SOLID	8.8021E+00	8.8086E+00			0.29972	ug/g	0.073265	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Neodymium	SOLID		1.1586E+01			0.99906	ug/g			
15	DUP	S1007140023	S10V000666	0 0	A		Sulfur	SOLID	3.2832E+01	2.8081E+01			9.9906	ug/g	15.599	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Titanium	SOLID	1.1908E+03	1.1616E+03			0.49953	ug/g	2.4800	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Yttrium	SOLID	7.1660E+00	7.2578E+00			0.19981	ug/g	1.2732	% RPD	
15	DUP	S1007140023	S10V000666	0 0	A		Zirconium	SOLID	1.0797E+01	1.0668E+01			0.49953	ug/g	1.2002	% RPD	
Sample Sequence 16																	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Aluminum	SOLID	50.0150045	9.3781E+03			3.0009	ug/g	1691.5	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Barium	SOLID	50.0150045	1.2088E+02			0.30009	ug/g	84.961	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Beryllium	SOLID	50.0150045	5.4053E+01			0.10003	ug/g	107.73	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Calcium	SOLID	50.0150045	8.5851E+03			5.0015	ug/g	797.61	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Cadmium	SOLID	50.0150045	5.6695E+01			0.50015	ug/g	108.52	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Cobalt	SOLID	50.0150045	6.2354E+01			1.0003	ug/g	108.18	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Chromium	SOLID	50.0150045	7.2094E+01			0.50015	ug/g	108.82	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Copper	SOLID	50.0150045	6.4418E+01			0.50015	ug/g	105.76	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Iron	SOLID	50.0150045	2.0065E+04			0.50015	ug/g	1073.1	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Potassium	SOLID	50.0150045	1.2753E+03			50.015	ug/g	47.644	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Lanthanum	SOLID	50.0150045	6.0661E+01			0.30009	ug/g	103.69	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Lithium	SOLID	50.0150045	6.0138E+01			0.30009	ug/g	101.19	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Magnesium	SOLID	50.0150045	4.8277E+03			5.0015	ug/g	-1281.9	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Manganese	SOLID	50.0150045	3.8261E+02			0.30009	ug/g	58.445	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Molybdenum	SOLID	50.0150045	5.1822E+01			2.0006	ug/g	103.61	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Sodium	SOLID	50.0150045	4.2033E+02			10.003	ug/g	267.49	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Nickel	SOLID	50.0150045	6.7136E+01			2.0006	ug/g	93.801	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Phosphorus	SOLID	50.0150045	6.4288E+02			5.0015	ug/g	83.158	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Sulfur	SOLID	50.0150045	8.8381E+01			10.003	ug/g	111.06	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Silicon	SOLID	50.0150045	3.4570E+02			3.0009	ug/g	424.17	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Strontium	SOLID	50.0150045	8.8570E+01			0.30009	ug/g	84.933	% Recovery	

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Titanium	SOLID	50.0150045	1.3091E+03			0.50015	ug/g	236.47	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Vanadium	SOLID	50.0150045	1.0397E+02			0.50015	ug/g	116.46	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Zinc	SOLID	50.0150045	9.2871E+01			0.50015	ug/g	112.32	% Recovery	
16	SPK-PREDIG	S1007140024	S10V000666	0 0	A		Zirconium	SOLID	50.0150045	2.4989E+01			0.50015	ug/g	28.375	% Recovery	
Sample Sequence 17																	
17	SPK-PREDIG	S1007140030	S10V000666	0 0	A		Cerium	SOLID	49.72254818	7.2344E+01			2.9834	ug/g	108.7	% Recovery	
17	SPK-PREDIG	S1007140030	S10V000666	0 0	A		Neodymium	SOLID	49.72254818	6.0161E+01			0.99445	ug/g	97.289	% Recovery	
17	SPK-PREDIG	S1007140030	S10V000666	0 0	A		Uranium	SOLID	49.72254818	5.0029E+01			9.9445	ug/g	100.62	% Recovery	
17	SPK-PREDIG	S1007140030	S10V000666	0 0	A		Yttrium	SOLID	49.72254818	5.1803E+01			0.19889	ug/g	89.773	% Recovery	
Sample Sequence 18																	
18	CCV	S1007210048		0 0			Silver	LIQUID	1	9.8842E-01			5.00E-03	ug/mL	98.842	% Recovery	
18	CCV	S1007210048		0 0			Aluminum	LIQUID	5	5.1146E+00			0.03	ug/mL	102.29	% Recovery	
18	CCV	S1007210048		0 0			Arsenic	LIQUID	5	4.9816E+00			0.05	ug/mL	99.631	% Recovery	
18	CCV	S1007210048		0 0			Boron	LIQUID	5	5.0276E+00			0.03	ug/mL	100.55	% Recovery	
18	CCV	S1007210048		0 0			Barium	LIQUID	5	4.9263E+00			3.00E-03	ug/mL	98.526	% Recovery	
18	CCV	S1007210048		0 0			Beryllium	LIQUID	5	5.1995E+00			1.00E-03	ug/mL	103.99	% Recovery	
18	CCV	S1007210048		0 0			Bismuth	LIQUID	5	5.0408E+00			0.1	ug/mL	100.82	% Recovery	
18	CCV	S1007210048		0 0			Calcium	LIQUID	5	5.1791E+00			0.05	ug/mL	103.58	% Recovery	
18	CCV	S1007210048		0 0			Cadmium	LIQUID	5	5.2272E+00			5.00E-03	ug/mL	104.54	% Recovery	
19	CCV	S1007210048		0 1			Cerium	LIQUID	5	5.1311E+00			0.03	ug/mL	102.62	% Recovery	
18	CCV	S1007210048		0 0			Cobalt	LIQUID	5	5.2094E+00			0.01	ug/mL	104.19	% Recovery	
18	CCV	S1007210048		0 0			Chromium	LIQUID	5	5.2878E+00			5.00E-03	ug/mL	105.76	% Recovery	
18	CCV	S1007210048		0 0			Copper	LIQUID	5	4.9137E+00			5.00E-03	ug/mL	98.274	% Recovery	
19	CCV	S1007210048		0 1			Europium	LIQUID	5	4.7779E+00			5.00E-03	ug/mL	95.558	% Recovery	
18	CCV	S1007210048		0 0			Iron	LIQUID	5	5.1347E+00			5.00E-03	ug/mL	102.69	% Recovery	
18	CCV	S1007210048		0 0			Potassium	LIQUID	5	5.1865E+00			0.5	ug/mL	103.73	% Recovery	
18	CCV	S1007210048		0 0			Lanthanum	LIQUID	5	4.8689E+00			3.00E-03	ug/mL	97.379	% Recovery	
18	CCV	S1007210048		0 0			Lithium	LIQUID	5	5.2242E+00			3.00E-03	ug/mL	104.48	% Recovery	
18	CCV	S1007210048		0 0			Magnesium	LIQUID	5	5.0082E+00			0.05	ug/mL	100.16	% Recovery	
18	CCV	S1007210048		0 0			Manganese	LIQUID	5	5.2040E+00			3.00E-03	ug/mL	104.08	% Recovery	
18	CCV	S1007210048		0 0			Molybdenum	LIQUID	5	5.0134E+00			0.02	ug/mL	100.27	% Recovery	
18	CCV	S1007210048		0 0			Sodium	LIQUID	5	5.2651E+00			0.1	ug/mL	105.3	% Recovery	
19	CCV	S1007210048		0 1			Neodymium	LIQUID	5	5.0808E+00			0.01	ug/mL	101.62	% Recovery	
18	CCV	S1007210048		0 0			Nickel	LIQUID	5	5.1221E+00			0.02	ug/mL	102.44	% Recovery	
20	CCV	S1007210048		0 2			Niobium	LIQUID	5	5.1412E+00			0.03	ug/mL	102.82	% Recovery	
18	CCV	S1007210048		0 0			Phosphorus	LIQUID	5	4.8702E+00			0.05	ug/mL	97.403	% Recovery	
18	CCV	S1007210048		0 0			Lead	LIQUID	5	5.2778E+00			0.05	ug/mL	105.56	% Recovery	
19	CCV	S1007210048		0 1			Palladium	LIQUID	5	5.0813E+00			0.1	ug/mL	101.63	% Recovery	
19	CCV	S1007210048		0 1			Praseodymium	LIQUID	5	4.8288E+00			0.01	ug/mL	96.577	% Recovery	
19	CCV	S1007210048		0 1			Rubidium	LIQUID	5	4.7278E+00			1	ug/mL	94.555	% Recovery	
19	CCV	S1007210048		0 1			Rhodium	LIQUID	5	5.0890E+00			0.05	ug/mL	101.78	% Recovery	
19	CCV	S1007210048		0 1			Ruthenium	LIQUID	5	5.0198E+00			0.03	ug/mL	100.4	% Recovery	

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
18	CCV	S1007210048		0 0			Sulfur	LIQUID	5	5.0663E+00			0.1	ug/mL	101.33	% Recovery	
18	CCV	S1007210048		0 0			Antimony	LIQUID	5	4.9409E+00			0.05	ug/mL	98.818	% Recovery	
18	CCV	S1007210048		0 0			Selenium	LIQUID	5	5.2401E+00			0.1	ug/mL	104.8	% Recovery	
18	CCV	S1007210048		0 0			Silicon	LIQUID	5	4.9143E+00			0.03	ug/mL	98.286	% Recovery	
19	CCV	S1007210048		0 1			Samarium	LIQUID	5	4.9394E+00			0.02	ug/mL	98.788	% Recovery	
20	CCV	S1007210048		0 2			Tin	LIQUID	5	5.2291E+00			0.03	ug/mL	104.58	% Recovery	
18	CCV	S1007210048		0 0			Strontium	LIQUID	5	4.9367E+00			3.00E-03	ug/mL	98.734	% Recovery	
20	CCV	S1007210048		0 2			Tantalum	LIQUID	5	5.1647E+00			0.05	ug/mL	103.29	% Recovery	
20	CCV	S1007210048		0 2			Tellurium	LIQUID	5	5.1804E+00			0.1	ug/mL	103.61	% Recovery	
19	CCV	S1007210048		0 1			Thorium	LIQUID	5	5.0778E+00			0.05	ug/mL	101.56	% Recovery	
18	CCV	S1007210048		0 0			Titanium	LIQUID	5	4.8927E+00			5.00E-03	ug/mL	97.854	% Recovery	
19	CCV	S1007210048		0 1			Thallium	LIQUID	5	5.1369E+00			0.1	ug/mL	102.74	% Recovery	
19	CCV	S1007210048		0 1			Uranium	LIQUID	5	5.1887E+00			0.1	ug/mL	103.77	% Recovery	
18	CCV	S1007210048		0 0			Vanadium	LIQUID	5	5.2587E+00			5.00E-03	ug/mL	105.17	% Recovery	
20	CCV	S1007210048		0 2			Tungsten	LIQUID	5	5.1085E+00			0.2	ug/mL	102.17	% Recovery	
19	CCV	S1007210048		0 1			Yttrium	LIQUID	5	4.8892E+00			2.00E-03	ug/mL	97.785	% Recovery	
18	CCV	S1007210048		0 0			Zinc	LIQUID	5	5.2462E+00			5.00E-03	ug/mL	104.92	% Recovery	
18	CCV	S1007210048		0 0			Zirconium	LIQUID	5	4.7271E+00			5.00E-03	ug/mL	94.542	% Recovery	
Sample Sequence 21																	
21	CCB	S1007210049		0 0			Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Aluminum	LIQUID		<3.0000E-02			0.03	ug/mL			
21	CCB	S1007210049		0 0			Arsenic	LIQUID		<5.0000E-02			0.05	ug/mL			
21	CCB	S1007210049		0 0			Boron	LIQUID		<3.0000E-02			0.03	ug/mL			
21	CCB	S1007210049		0 0			Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL			
21	CCB	S1007210049		0 0			Calcium	LIQUID		<5.0000E-02			0.05	ug/mL			
21	CCB	S1007210049		0 0			Cadmium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL			
21	CCB	S1007210049		0 0			Cobalt	LIQUID		<1.0000E-02			0.01	ug/mL			
21	CCB	S1007210049		0 0			Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Iron	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL			
21	CCB	S1007210049		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Magnesium	LIQUID		<5.0000E-02			0.05	ug/mL			
21	CCB	S1007210049		0 0			Manganese	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL			
21	CCB	S1007210049		0 0			Sodium	LIQUID		<1.0000E-01			0.1	ug/mL			
21	CCB	S1007210049		0 0			Neodymium	LIQUID		<1.0000E-02			0.01	ug/mL			

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
21	CCB	S1007210049		0 0			Nickel	LIQUID		<2.0000E-02			0.02	ug/mL			
21	CCB	S1007210049		0 0			Niobium	LIQUID		<3.0000E-02			0.03	ug/mL			
21	CCB	S1007210049		0 0			Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL			
21	CCB	S1007210049		0 0			Lead	LIQUID		<5.0000E-02			0.05	ug/mL			
21	CCB	S1007210049		0 0			Palladium	LIQUID		<1.0000E-01			0.1	ug/mL			
21	CCB	S1007210049		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
21	CCB	S1007210049		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL			
21	CCB	S1007210049		0 0			Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL			
21	CCB	S1007210049		0 0			Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL			
21	CCB	S1007210049		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL			
21	CCB	S1007210049		0 0			Antimony	LIQUID		<5.0000E-02			0.05	ug/mL			
21	CCB	S1007210049		0 0			Selenium	LIQUID		<1.0000E-01			0.1	ug/mL			
21	CCB	S1007210049		0 0			Silicon	LIQUID		<3.0000E-02			0.03	ug/mL			
21	CCB	S1007210049		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL			
21	CCB	S1007210049		0 0			Tin	LIQUID		<3.0000E-02			0.03	ug/mL			
21	CCB	S1007210049		0 0			Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL			
21	CCB	S1007210049		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL			
21	CCB	S1007210049		0 0			Thorium	LIQUID		<5.0000E-02			0.05	ug/mL			
21	CCB	S1007210049		0 0			Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Thallium	LIQUID		<1.0000E-01			0.1	ug/mL			
21	CCB	S1007210049		0 0			Uranium	LIQUID		<1.0000E-01			0.1	ug/mL			
21	CCB	S1007210049		0 0			Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Tungsten	LIQUID		<2.0000E-01			0.2	ug/mL			
21	CCB	S1007210049		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Zinc	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
21	CCB	S1007210049		0 0			Zirconium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
Sample Sequence 22																	
24	SPK-POST	S1007210047	S10V000666	0 2			Aluminum	SOLID	100	9.4012E+02			0.03	ug/g	84.022	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Barium	SOLID	100	1.0213E+02			3.00E-03	ug/g	94.269	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Beryllium	SOLID	100	9.5809E+01			1.00E-03	ug/g	95.792	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Calcium	SOLID	100	8.8911E+02			0.05	ug/g	67.725	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Cadmium	SOLID	100	9.8622E+01			5.00E-03	ug/g	98.379	% Recovery	
23	SPK-POST	S1007210047	S10V000666	0 1			Cerium	SOLID	100	9.6090E+01			0.03	ug/g	94.254	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Cobalt	SOLID	100	9.8296E+01			0.01	ug/g	97.469	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Chromium	SOLID	100	9.9959E+01			5.00E-03	ug/g	98.187	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Copper	SOLID	100	1.0159E+02			5.00E-03	ug/g	100.43	% Recovery	
25	SPK-POST	S1007210047	S10V000666	0 3			Iron	SOLID	1000	2.8307E+03			5.00E-03	ug/g	87.134	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Potassium	SOLID	100	2.1892E+02			0.5	ug/g	93.339	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Lanthanum	SOLID	100	9.1933E+01			3.00E-03	ug/g	91.05	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Lithium	SOLID	100	9.6411E+01			3.00E-03	ug/g	95.455	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Magnesium	SOLID	100	6.2168E+02			0.05	ug/g	72.94	% Recovery	

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
24	SPK-POST	S1007210047	S10V000666	0 2			Manganese	SOLID	100	1.3368E+02			3.00E-03	ug/g	98.218	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Molybdenum	SOLID	100	9.2382E+01			0.02	ug/g	92.382	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Sodium	SOLID	100	1.2422E+02			0.1	ug/g	95.467	% Recovery	
23	SPK-POST	S1007210047	S10V000666	0 1			Neodymium	SOLID	100	9.3664E+01			0.01	ug/g	92.482	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Nickel	SOLID	100	9.9628E+01			0.02	ug/g	97.599	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Phosphorus	SOLID	100	1.5064E+02			0.05	ug/g	90.309	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Sulfur	SOLID	100	1.0046E+02			0.1	ug/g	97.17	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Silicon	SOLID	100	1.0563E+02			0.03	ug/g	92.229	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Strontium	SOLID	100	9.7748E+01			3.00E-03	ug/g	93.124	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Titanium	SOLID	100	2.0716E+02			5.00E-03	ug/g	87.685	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Vanadium	SOLID	100	1.0112E+02			5.00E-03	ug/g	96.529	% Recovery	
23	SPK-POST	S1007210047	S10V000666	0 1			Yttrium	SOLID	100	8.8919E+01			2.00E-03	ug/g	88.2	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Zinc	SOLID	100	1.0218E+02			5.00E-03	ug/g	98.497	% Recovery	
24	SPK-POST	S1007210047	S10V000666	0 2			Zirconium	SOLID	100	8.4246E+01			5.00E-03	ug/g	83.163	% Recovery	
Sample Sequence 26																	
26	SAMPLE	S10V000675		0 1	A		Aluminum	SOLID	N/A	7.1731E+03			2.997	ug/g			
26	SAMPLE	S10V000675		0 1	A		Barium	SOLID	N/A	6.4491E+01			0.2997	ug/g			
26	SAMPLE	S10V000675		0 1	A		Beryllium	SOLID	N/A	1.4945E-01			0.0999	ug/g			J
26	SAMPLE	S10V000675		0 1	A		Calcium	SOLID	N/A	8.8345E+03			4.995	ug/g			
26	SAMPLE	S10V000675		0 1	A		Cerium	SOLID	N/A	2.0887E+01			2.997	ug/g			J
26	SAMPLE	S10V000675		0 1	A		Cobalt	SOLID	N/A	5.6512E+00			0.999	ug/g			J
26	SAMPLE	S10V000675		0 1	A		Chromium	SOLID	N/A	2.2038E+01			0.4995	ug/g			
26	SAMPLE	S10V000675		0 1	A		Copper	SOLID	N/A	9.1751E+00			0.4995	ug/g			
26	SAMPLE	S10V000675		0 1	A		Iron	SOLID	N/A	1.7480E+04			0.4995	ug/g			
26	SAMPLE	S10V000675		0 1	A		Potassium	SOLID	N/A	1.1349E+03			49.95	ug/g			
26	SAMPLE	S10V000675		0 1	A		Lanthanum	SOLID	N/A	9.0205E+00			0.2997	ug/g			
26	SAMPLE	S10V000675		0 1	A		Lithium	SOLID	N/A	9.2696E+00			0.2997	ug/g			
26	SAMPLE	S10V000675		0 1	A		Magnesium	SOLID	N/A	4.7083E+03			4.995	ug/g			
26	SAMPLE	S10V000675		0 1	A		Manganese	SOLID	N/A	2.9106E+02			0.2997	ug/g			
26	SAMPLE	S10V000675		0 1	A		Molybdenum	SOLID	N/A	<1.9980E+00			1.998	ug/g			U
26	SAMPLE	S10V000675		0 1	A		Sodium	SOLID	N/A	2.0367E+02			9.99	ug/g			
26	SAMPLE	S10V000675		0 1	A		Nickel	SOLID	N/A	1.0918E+01			1.998	ug/g			Jc
26	SAMPLE	S10V000675		0 1	A		Phosphorus	SOLID	N/A	4.5172E+02			4.995	ug/g			
26	SAMPLE	S10V000675		0 1	A		Sulfur	SOLID	N/A	5.3153E+01			9.99	ug/g			J
26	SAMPLE	S10V000675		0 1	A		Silicon	SOLID	N/A	9.3918E+01			2.997	ug/g			a
26	SAMPLE	S10V000675		0 1	A		Strontium	SOLID	N/A	3.6135E+01			0.2997	ug/g			
26	SAMPLE	S10V000675		0 1	A		Titanium	SOLID	N/A	8.6180E+02			0.4995	ug/g			
26	SAMPLE	S10V000675		0 1	A		Vanadium	SOLID	N/A	3.6822E+01			0.4995	ug/g			
26	SAMPLE	S10V000675		0 1	A		Yttrium	SOLID	N/A	5.0362E+00			0.1998	ug/g			
26	SAMPLE	S10V000675		0 1	A		Zinc	SOLID	N/A	3.3843E+01			0.4995	ug/g			
26	SAMPLE	S10V000675		0 1	A		Zirconium	SOLID	N/A	5.8487E+00			0.4995	ug/g			b
Sample Sequence 27																	

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
27	SAMPLE	S10V000684		0 1	A		Aluminum	SOLID	N/A	7.1702E+03			2.991	ug/g			
27	SAMPLE	S10V000684		0 1	A		Barium	SOLID	N/A	6.8806E+01			0.2991	ug/g			
27	SAMPLE	S10V000684		0 1	A		Beryllium	SOLID	N/A	1.3529E-01			0.099701	ug/g			J
27	SAMPLE	S10V000684		0 1	A		Calcium	SOLID	N/A	7.1259E+03			4.985	ug/g			
27	SAMPLE	S10V000684		0 1	A		Cerium	SOLID	N/A	2.0362E+01			2.991	ug/g			J
27	SAMPLE	S10V000684		0 1	A		Cobalt	SOLID	N/A	6.9336E+00			0.99701	ug/g			J
27	SAMPLE	S10V000684		0 1	A		Chromium	SOLID	N/A	2.3517E+01			0.4985	ug/g			
27	SAMPLE	S10V000684		0 1	A		Copper	SOLID	N/A	1.1540E+01			0.4985	ug/g			
27	SAMPLE	S10V000684		0 1	A		Iron	SOLID	N/A	2.0217E+04			0.4985	ug/g			
27	SAMPLE	S10V000684		0 1	A		Potassium	SOLID	N/A	1.0270E+03			49.85	ug/g			
27	SAMPLE	S10V000684		0 1	A		Lanthanum	SOLID	N/A	9.3420E+00			0.2991	ug/g			
27	SAMPLE	S10V000684		0 1	A		Lithium	SOLID	N/A	8.3781E+00			0.2991	ug/g			
27	SAMPLE	S10V000684		0 1	A		Magnesium	SOLID	N/A	4.6215E+03			4.985	ug/g			
27	SAMPLE	S10V000684		0 1	A		Manganese	SOLID	N/A	2.8248E+02			0.2991	ug/g			
27	SAMPLE	S10V000684		0 1	A		Molybdenum	SOLID	N/A	<1.9940E+00			1.994	ug/g			U
27	SAMPLE	S10V000684		0 1	A		Sodium	SOLID	N/A	3.1137E+02			9.9701	ug/g			
27	SAMPLE	S10V000684		0 1	A		Nickel	SOLID	N/A	1.4678E+01			1.994	ug/g			Jc
27	SAMPLE	S10V000684		0 1	A		Phosphorus	SOLID	N/A	5.9608E+02			4.985	ug/g			
27	SAMPLE	S10V000684		0 1	A		Sulfur	SOLID	N/A	7.2190E+01			9.9701	ug/g			J
27	SAMPLE	S10V000684		0 1	A		Silicon	SOLID	N/A	8.3864E+01			2.991	ug/g			a
27	SAMPLE	S10V000684		0 1	A		Strontium	SOLID	N/A	2.9390E+01			0.2991	ug/g			
27	SAMPLE	S10V000684		0 1	A		Titanium	SOLID	N/A	1.2933E+03			0.4985	ug/g			
27	SAMPLE	S10V000684		0 1	A		Vanadium	SOLID	N/A	4.8841E+01			0.4985	ug/g			
27	SAMPLE	S10V000684		0 1	A		Yttrium	SOLID	N/A	7.0100E+00			0.1994	ug/g			
27	SAMPLE	S10V000684		0 1	A		Zinc	SOLID	N/A	3.5464E+01			0.4985	ug/g			
27	SAMPLE	S10V000684		0 1	A		Zirconium	SOLID	N/A	9.8068E+00			0.4985	ug/g			b
Sample Sequence 28																	
28	SAMPLE	S10V000693		0 1	A		Aluminum	SOLID	N/A	8.4395E+03			3.0016	ug/g			
28	SAMPLE	S10V000693		0 1	A		Barium	SOLID	N/A	6.6303E+01			0.30016	ug/g			
28	SAMPLE	S10V000693		0 1	A		Beryllium	SOLID	N/A	<1.0005E-01			0.10005	ug/g			U
28	SAMPLE	S10V000693		0 1	A		Calcium	SOLID	N/A	6.5669E+03			5.0026	ug/g			
28	SAMPLE	S10V000693		0 1	A		Cerium	SOLID	N/A	1.8431E+01			3.0016	ug/g			J
28	SAMPLE	S10V000693		0 1	A		Cobalt	SOLID	N/A	8.8400E+00			1.0005	ug/g			J
28	SAMPLE	S10V000693		0 1	A		Chromium	SOLID	N/A	3.2176E+01			0.50026	ug/g			
28	SAMPLE	S10V000693		0 1	A		Copper	SOLID	N/A	2.7086E+01			0.50026	ug/g			
28	SAMPLE	S10V000693		0 1	A		Iron	SOLID	N/A	2.3280E+04			0.50026	ug/g			
28	SAMPLE	S10V000693		0 1	A		Potassium	SOLID	N/A	9.5844E+02			50.026	ug/g			
28	SAMPLE	S10V000693		0 1	A		Lanthanum	SOLID	N/A	9.0746E+00			0.30016	ug/g			
28	SAMPLE	S10V000693		0 1	A		Lithium	SOLID	N/A	8.6996E+00			0.30016	ug/g			
28	SAMPLE	S10V000693		0 1	A		Magnesium	SOLID	N/A	4.5608E+03			5.0026	ug/g			
28	SAMPLE	S10V000693		0 1	A		Manganese	SOLID	N/A	3.1990E+02			0.30016	ug/g			
28	SAMPLE	S10V000693		0 1	A		Molybdenum	SOLID	N/A	5.1175E+00			2.001	ug/g			J

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
28	SAMPLE	S10V000693		0 1	A		Sodium	SOLID	N/A	5.7983E+02			10.005	ug/g			
28	SAMPLE	S10V000693		0 1	A		Nickel	SOLID	N/A	1.2866E+01			2.001	ug/g			Jc
28	SAMPLE	S10V000693		0 1	A		Phosphorus	SOLID	N/A	6.1325E+02			5.0026	ug/g			
28	SAMPLE	S10V000693		0 1	A		Sulfur	SOLID	N/A	8.2852E+01			10.005	ug/g			J
28	SAMPLE	S10V000693		0 1	A		Silicon	SOLID	N/A	9.0617E+01			3.0016	ug/g			a
28	SAMPLE	S10V000693		0 1	A		Strontium	SOLID	N/A	3.0281E+01			0.30016	ug/g			
28	SAMPLE	S10V000693		0 1	A		Titanium	SOLID	N/A	1.5202E+03			0.50026	ug/g			
28	SAMPLE	S10V000693		0 1	A		Vanadium	SOLID	N/A	5.9951E+01			0.50026	ug/g			
28	SAMPLE	S10V000693		0 1	A		Yttrium	SOLID	N/A	7.2901E+00			0.2001	ug/g			
28	SAMPLE	S10V000693		0 1	A		Zinc	SOLID	N/A	5.2707E+01			0.50026	ug/g			
28	SAMPLE	S10V000693		0 1	A		Zirconium	SOLID	N/A	1.0170E+01			0.50026	ug/g			b
Sample Sequence 29																	
29	ICSA	S1007210050		0 0			Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Aluminum	LIQUID	200	2.0837E+02			0.03	ug/mL	104.19	% Recovery	
29	ICSA	S1007210050		0 0			Arsenic	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Boron	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Calcium	LIQUID	200	2.2542E+02			0.05	ug/mL	112.71	% Recovery	
29	ICSA	S1007210050		0 0			Cadmium	LIQUID		1.0520E-02			5.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Cobalt	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Europium	LIQUID		1.7950E-02			5.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Iron	LIQUID	200	1.9879E+02			5.00E-03	ug/mL	99.394	% Recovery	
29	ICSA	S1007210050		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Magnesium	LIQUID	200	1.9129E+02			0.05	ug/mL	95.643	% Recovery	
29	ICSA	S1007210050		0 0			Manganese	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Sodium	LIQUID	200	1.7560E+02			0.1	ug/mL	87.801	% Recovery	
29	ICSA	S1007210050		0 0			Neodymium	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Nickel	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Niobium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Lead	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Palladium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL	N/A		

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
29	ICSA	S1007210050		0 0			Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Antimony	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Selenium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Silicon	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Tin	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Thorium	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Thallium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Tungsten	LIQUID		<2.0000E-01			0.2	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Zinc	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
29	ICSA	S1007210050		0 0			Zirconium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
Sample Sequence 30																	
30	ICSAB	S1007210051		0 0			Silver	LIQUID	1	1.0737E+00			5.00E-03	ug/mL	107.37	% Recovery	
30	ICSAB	S1007210051		0 0			Aluminum	LIQUID	200	2.0749E+02			0.03	ug/mL	103.74	% Recovery	
30	ICSAB	S1007210051		0 0			Arsenic	LIQUID	5	5.1542E+00			0.05	ug/mL	103.08	% Recovery	
30	ICSAB	S1007210051		0 0			Boron	LIQUID	1	1.0074E+00			0.03	ug/mL	100.74	% Recovery	
30	ICSAB	S1007210051		0 0			Barium	LIQUID	1	9.4226E-01			3.00E-03	ug/mL	94.226	% Recovery	
30	ICSAB	S1007210051		0 0			Beryllium	LIQUID	.1	9.3660E-02			1.00E-03	ug/mL	93.66	% Recovery	
30	ICSAB	S1007210051		0 0			Bismuth	LIQUID	5	5.0441E+00			0.1	ug/mL	100.88	% Recovery	
30	ICSAB	S1007210051		0 0			Calcium	LIQUID	200	2.2056E+02			0.05	ug/mL	110.28	% Recovery	
30	ICSAB	S1007210051		0 0			Cadmium	LIQUID	.2	2.2340E-01			5.00E-03	ug/mL	111.7	% Recovery	
30	ICSAB	S1007210051		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Cobalt	LIQUID	5	5.2265E+00			0.01	ug/mL	104.53	% Recovery	
30	ICSAB	S1007210051		0 0			Chromium	LIQUID	5	5.2257E+00			5.00E-03	ug/mL	104.51	% Recovery	
30	ICSAB	S1007210051		0 0			Copper	LIQUID	5	5.1045E+00			5.00E-03	ug/mL	102.09	% Recovery	
30	ICSAB	S1007210051		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Iron	LIQUID	200	1.9743E+02			5.00E-03	ug/mL	98.717	% Recovery	
30	ICSAB	S1007210051		0 0			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Lithium	LIQUID	1	9.2994E-01			3.00E-03	ug/mL	92.994	% Recovery	
30	ICSAB	S1007210051		0 0			Magnesium	LIQUID	200	1.8876E+02			0.05	ug/mL	94.378	% Recovery	
30	ICSAB	S1007210051		0 0			Manganese	LIQUID	5	5.1561E+00			3.00E-03	ug/mL	103.12	% Recovery	
30	ICSAB	S1007210051		0 0			Molybdenum	LIQUID	5	4.8508E+00			0.02	ug/mL	97.015	% Recovery	
30	ICSAB	S1007210051		0 0			Sodium	LIQUID	200	1.7189E+02			0.1	ug/mL	85.943	% Recovery	
30	ICSAB	S1007210051		0 0			Neodymium	LIQUID		5.7480E-02			0.01	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Nickel	LIQUID	5	5.1372E+00			0.02	ug/mL	102.74	% Recovery	

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
30	ICSAB	S1007210051		0 0			Niobium	LIQUID	5	4.9035E+00			0.03	ug/mL	98.07	% Recovery	
30	ICSAB	S1007210051		0 0			Phosphorus	LIQUID	1	9.7688E-01			0.05	ug/mL	97.688	% Recovery	
30	ICSAB	S1007210051		0 0			Lead	LIQUID	1	8.3518E-01			0.05	ug/mL	83.518	% Recovery	
30	ICSAB	S1007210051		0 0			Palladium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Rhodium	LIQUID	1	1.0766E+00			0.05	ug/mL	107.66	% Recovery	
30	ICSAB	S1007210051		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Antimony	LIQUID	5	5.1067E+00			0.05	ug/mL	102.13	% Recovery	
30	ICSAB	S1007210051		0 0			Selenium	LIQUID	5	5.2591E+00			0.1	ug/mL	105.18	% Recovery	
30	ICSAB	S1007210051		0 0			Silicon	LIQUID	5	5.0524E+00			0.03	ug/mL	101.05	% Recovery	
30	ICSAB	S1007210051		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Tin	LIQUID	1	1.0388E+00			0.03	ug/mL	103.88	% Recovery	
30	ICSAB	S1007210051		0 0			Strontium	LIQUID	1	9.5394E-01			3.00E-03	ug/mL	95.394	% Recovery	
30	ICSAB	S1007210051		0 0			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Thorium	LIQUID	5	4.7810E+00			0.05	ug/mL	95.621	% Recovery	
30	ICSAB	S1007210051		0 0			Titanium	LIQUID	50	4.8207E+01			5.00E-03	ug/mL	96.415	% Recovery	
30	ICSAB	S1007210051		0 0			Thallium	LIQUID	5	4.7863E+00			0.1	ug/mL	95.726	% Recovery	
30	ICSAB	S1007210051		0 0			Uranium	LIQUID	5	4.7523E+00			0.1	ug/mL	95.046	% Recovery	
30	ICSAB	S1007210051		0 0			Vanadium	LIQUID	1	1.0339E+00			5.00E-03	ug/mL	103.39	% Recovery	
30	ICSAB	S1007210051		0 0			Tungsten	LIQUID	5	4.3419E+00			0.2	ug/mL	86.838	% Recovery	
30	ICSAB	S1007210051		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL	N/A		
30	ICSAB	S1007210051		0 0			Zinc	LIQUID	5	5.2233E+00			5.00E-03	ug/mL	104.47	% Recovery	
30	ICSAB	S1007210051		0 0			Zirconium	LIQUID	5	4.1381E+00			5.00E-03	ug/mL	82.763	% Recovery	
Sample Sequence 31																	
31	CCV	S1007210052		0 0			Silver	LIQUID	1	9.7243E-01			5.00E-03	ug/mL	97.243	% Recovery	
31	CCV	S1007210052		0 0			Aluminum	LIQUID	5	5.1306E+00			0.03	ug/mL	102.61	% Recovery	
31	CCV	S1007210052		0 0			Arsenic	LIQUID	5	4.9246E+00			0.05	ug/mL	98.493	% Recovery	
31	CCV	S1007210052		0 0			Boron	LIQUID	5	5.0168E+00			0.03	ug/mL	100.34	% Recovery	
31	CCV	S1007210052		0 0			Barium	LIQUID	5	4.9811E+00			3.00E-03	ug/mL	99.622	% Recovery	
31	CCV	S1007210052		0 0			Beryllium	LIQUID	5	5.2013E+00			1.00E-03	ug/mL	104.03	% Recovery	
31	CCV	S1007210052		0 0			Bismuth	LIQUID	5	5.0401E+00			0.1	ug/mL	100.8	% Recovery	
31	CCV	S1007210052		0 0			Calcium	LIQUID	5	5.1826E+00			0.05	ug/mL	103.65	% Recovery	
31	CCV	S1007210052		0 0			Cadmium	LIQUID	5	5.2475E+00			5.00E-03	ug/mL	104.95	% Recovery	
32	CCV	S1007210052		0 1			Cerium	LIQUID	5	5.2140E+00			0.03	ug/mL	104.28	% Recovery	
31	CCV	S1007210052		0 0			Cobalt	LIQUID	5	5.2198E+00			0.01	ug/mL	104.4	% Recovery	
31	CCV	S1007210052		0 0			Chromium	LIQUID	5	5.2906E+00			5.00E-03	ug/mL	105.81	% Recovery	
31	CCV	S1007210052		0 0			Copper	LIQUID	5	4.9546E+00			5.00E-03	ug/mL	99.092	% Recovery	
32	CCV	S1007210052		0 1			Europium	LIQUID	5	4.8339E+00			5.00E-03	ug/mL	96.677	% Recovery	
31	CCV	S1007210052		0 0			Iron	LIQUID	5	5.1328E+00			5.00E-03	ug/mL	102.66	% Recovery	
31	CCV	S1007210052		0 0			Potassium	LIQUID	5	5.1962E+00			0.5	ug/mL	103.92	% Recovery	

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
31	CCV	S1007210052		0 0			Lanthanum	LIQUID	5	4.9053E+00			3.00E-03	ug/mL	98.106	% Recovery	
31	CCV	S1007210052		0 0			Lithium	LIQUID	5	5.3046E+00			3.00E-03	ug/mL	106.09	% Recovery	
31	CCV	S1007210052		0 0			Magnesium	LIQUID	5	5.0339E+00			0.05	ug/mL	100.68	% Recovery	
31	CCV	S1007210052		0 0			Manganese	LIQUID	5	5.2134E+00			3.00E-03	ug/mL	104.27	% Recovery	
31	CCV	S1007210052		0 0			Molybdenum	LIQUID	5	5.0477E+00			0.02	ug/mL	100.95	% Recovery	
31	CCV	S1007210052		0 0			Sodium	LIQUID	5	5.3990E+00			0.1	ug/mL	107.98	% Recovery	
32	CCV	S1007210052		0 1			Neodymium	LIQUID	5	5.1357E+00			0.01	ug/mL	102.71	% Recovery	
31	CCV	S1007210052		0 0			Nickel	LIQUID	5	5.1486E+00			0.02	ug/mL	102.97	% Recovery	
33	CCV	S1007210052		0 2			Niobium	LIQUID	5	5.1201E+00			0.03	ug/mL	102.4	% Recovery	
31	CCV	S1007210052		0 0			Phosphorus	LIQUID	5	4.9214E+00			0.05	ug/mL	98.427	% Recovery	
31	CCV	S1007210052		0 0			Lead	LIQUID	5	5.3144E+00			0.05	ug/mL	106.29	% Recovery	
32	CCV	S1007210052		0 1			Palladium	LIQUID	5	5.0920E+00			0.1	ug/mL	101.84	% Recovery	
32	CCV	S1007210052		0 1			Praseodymium	LIQUID	5	4.8970E+00			0.01	ug/mL	97.939	% Recovery	
32	CCV	S1007210052		0 1			Rubidium	LIQUID	5	4.7460E+00			1	ug/mL	94.921	% Recovery	
32	CCV	S1007210052		0 1			Rhodium	LIQUID	5	5.0752E+00			0.05	ug/mL	101.5	% Recovery	
32	CCV	S1007210052		0 1			Ruthenium	LIQUID	5	5.0641E+00			0.03	ug/mL	101.28	% Recovery	
31	CCV	S1007210052		0 0			Sulfur	LIQUID	5	5.0286E+00			0.1	ug/mL	100.57	% Recovery	
31	CCV	S1007210052		0 0			Antimony	LIQUID	5	4.9868E+00			0.05	ug/mL	99.737	% Recovery	
31	CCV	S1007210052		0 0			Selenium	LIQUID	5	5.1935E+00			0.1	ug/mL	103.87	% Recovery	
31	CCV	S1007210052		0 0			Silicon	LIQUID	5	4.9336E+00			0.03	ug/mL	98.672	% Recovery	
32	CCV	S1007210052		0 1			Samarium	LIQUID	5	5.0014E+00			0.02	ug/mL	100.03	% Recovery	
33	CCV	S1007210052		0 2			Tin	LIQUID	5	5.1733E+00			0.03	ug/mL	103.47	% Recovery	
31	CCV	S1007210052		0 0			Strontium	LIQUID	5	4.9601E+00			3.00E-03	ug/mL	99.201	% Recovery	
33	CCV	S1007210052		0 2			Tantalum	LIQUID	5	5.1398E+00			0.05	ug/mL	102.8	% Recovery	
33	CCV	S1007210052		0 2			Tellurium	LIQUID	5	5.2013E+00			0.1	ug/mL	104.03	% Recovery	
32	CCV	S1007210052		0 1			Thorium	LIQUID	5	5.1564E+00			0.05	ug/mL	103.13	% Recovery	
31	CCV	S1007210052		0 0			Titanium	LIQUID	5	4.8967E+00			5.00E-03	ug/mL	97.934	% Recovery	
32	CCV	S1007210052		0 1			Thallium	LIQUID	5	5.1722E+00			0.1	ug/mL	103.44	% Recovery	
32	CCV	S1007210052		0 1			Uranium	LIQUID	5	5.2437E+00			0.1	ug/mL	104.87	% Recovery	
31	CCV	S1007210052		0 0			Vanadium	LIQUID	5	5.2777E+00			5.00E-03	ug/mL	105.55	% Recovery	
33	CCV	S1007210052		0 2			Tungsten	LIQUID	5	5.0508E+00			0.2	ug/mL	101.02	% Recovery	
32	CCV	S1007210052		0 1			Yttrium	LIQUID	5	4.9688E+00			2.00E-03	ug/mL	99.375	% Recovery	
31	CCV	S1007210052		0 0			Zinc	LIQUID	5	5.2334E+00			5.00E-03	ug/mL	104.67	% Recovery	
31	CCV	S1007210052		0 0			Zirconium	LIQUID	5	4.7525E+00			5.00E-03	ug/mL	95.051	% Recovery	
Sample Sequence 34																	
35	LLS	S1007210054		0 1			Silver	LIQUID	.02	1.9830E-02			5.00E-03	ug/mL	99.15	% Recovery	
34	LLS	S1007210054		0 0			Aluminum	LIQUID	.1	9.1820E-02			0.03	ug/mL	91.82	% Recovery	
36	LLS	S1007210054		0 2			Arsenic	LIQUID	.2	2.0428E-01			0.05	ug/mL	102.14	% Recovery	
37	LLS	S1007210054		0 3			Boron	LIQUID	.1	9.8490E-02			0.03	ug/mL	98.49	% Recovery	
35	LLS	S1007210054		0 1			Barium	LIQUID	.01	9.7700E-03			3.00E-03	ug/mL	97.7	% Recovery	
35	LLS	S1007210054		0 1			Beryllium	LIQUID	.001	1.0300E-03			1.00E-03	ug/mL	103	% Recovery	
36	LLS	S1007210054		0 2			Bismuth	LIQUID	.2	1.9284E-01			0.1	ug/mL	96.42	% Recovery	

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
34	LLS	S1007210054		0 0			Calcium	LIQUID	.2	1.7068E-01			0.05	ug/mL	85.34	% Recovery	
34	LLS	S1007210054		0 0			Cadmium	LIQUID	.01	8.1200E-03			5.00E-03	ug/mL	81.2	% Recovery	
36	LLS	S1007210054		0 2			Cerium	LIQUID	.2	2.0937E-01			0.03	ug/mL	104.68	% Recovery	
37	LLS	S1007210054		0 3			Cobalt	LIQUID	.04	3.5610E-02			0.01	ug/mL	89.025	% Recovery	
36	LLS	S1007210054		0 2			Chromium	LIQUID	.02	1.6990E-02			5.00E-03	ug/mL	84.95	% Recovery	
37	LLS	S1007210054		0 3			Copper	LIQUID	.02	1.9330E-02			5.00E-03	ug/mL	96.65	% Recovery	
38	LLS	S1007210054		0 4			Europium	LIQUID	.1	9.2170E-02			5.00E-03	ug/mL	92.17	% Recovery	
36	LLS	S1007210054		0 2			Iron	LIQUID	.05	5.0750E-02			5.00E-03	ug/mL	101.5	% Recovery	
34	LLS	S1007210054		0 0			Potassium	LIQUID	.5	4.3803E-01			0.1	ug/mL	87.606	% Recovery	
35	LLS	S1007210054		0 1			Lanthanum	LIQUID	.01	1.0440E-02			3.00E-03	ug/mL	104.4	% Recovery	
34	LLS	S1007210054		0 0			Lithium	LIQUID	.02	2.0620E-02			3.00E-03	ug/mL	103.1	% Recovery	
34	LLS	S1007210054		0 0			Magnesium	LIQUID	.2	1.9585E-01			0.05	ug/mL	97.925	% Recovery	
34	LLS	S1007210054		0 0			Manganese	LIQUID	.02	1.7960E-02			3.00E-03	ug/mL	89.8	% Recovery	
37	LLS	S1007210054		0 3			Molybdenum	LIQUID	.1	9.8400E-02			0.02	ug/mL	98.4	% Recovery	
34	LLS	S1007210054		0 0			Sodium	LIQUID	.2	2.0281E-01			0.1	ug/mL	101.4	% Recovery	
36	LLS	S1007210054		0 2			Neodymium	LIQUID	.1	1.0033E-01			0.01	ug/mL	100.33	% Recovery	
35	LLS	S1007210054		0 1			Nickel	LIQUID	.04	6.0700E-03			1.00E-03	ug/mL	15.175	% Recovery	
40	LLS	S1007210054		0 6			Niobium	LIQUID	.1	9.5710E-02			0.03	ug/mL	95.71	% Recovery	
37	LLS	S1007210054		0 3			Phosphorus	LIQUID	.4	4.0160E-01			0.05	ug/mL	100.4	% Recovery	
36	LLS	S1007210054		0 2			Lead	LIQUID	.2	1.8089E-01			0.05	ug/mL	90.445	% Recovery	
39	LLS	S1007210054		0 5			Palladium	LIQUID	1	1.0812E+00			0.1	ug/mL	108.12	% Recovery	
38	LLS	S1007210054		0 4			Praseodymium	LIQUID	.1	8.7350E-02			0.01	ug/mL	87.35	% Recovery	
38	LLS	S1007210054		0 4			Rubidium	LIQUID	1	7.0369E-01			0.1	ug/mL	70.369	% Recovery	
39	LLS	S1007210054		0 5			Rhodium	LIQUID	.1	9.6990E-02			0.05	ug/mL	96.99	% Recovery	
39	LLS	S1007210054		0 5			Ruthenium	LIQUID	.1	9.6460E-02			0.03	ug/mL	96.46	% Recovery	
37	LLS	S1007210054		0 3			Sulfur	LIQUID	.2	2.1373E-01			0.1	ug/mL	106.86	% Recovery	
37	LLS	S1007210054		0 3			Antimony	LIQUID	.1	9.2480E-02			0.05	ug/mL	92.48	% Recovery	
36	LLS	S1007210054		0 2			Selenium	LIQUID	.2	1.8883E-01			0.1	ug/mL	94.415	% Recovery	
37	LLS	S1007210054		0 3			Silicon	LIQUID	.1	9.2370E-02			0.03	ug/mL	92.37	% Recovery	
34	LLS	S1007210054		0 0			Samarium	LIQUID	.1	1.0093E-01			0.02	ug/mL	100.93	% Recovery	
40	LLS	S1007210054		0 6			Tin	LIQUID	.1	9.4710E-02			0.03	ug/mL	94.71	% Recovery	
35	LLS	S1007210054		0 1			Strontium	LIQUID	.02	2.0180E-02			3.00E-03	ug/mL	100.9	% Recovery	
40	LLS	S1007210054		0 6			Tantalum	LIQUID	1	1.0381E+00			0.05	ug/mL	103.81	% Recovery	
40	LLS	S1007210054		0 6			Tellurium	LIQUID	1	1.0917E+00			0.1	ug/mL	109.17	% Recovery	
38	LLS	S1007210054		0 4			Thorium	LIQUID	.1	1.0667E-01			0.05	ug/mL	106.67	% Recovery	
37	LLS	S1007210054		0 3			Titanium	LIQUID	.02	2.0080E-02			5.00E-03	ug/mL	100.4	% Recovery	
35	LLS	S1007210054		0 1			Thallium	LIQUID	.4	3.6462E-01			0.1	ug/mL	91.155	% Recovery	
37	LLS	S1007210054		0 3			Uranium	LIQUID	.5	4.9161E-01			0.1	ug/mL	98.322	% Recovery	
37	LLS	S1007210054		0 3			Vanadium	LIQUID	.05	5.0290E-02			5.00E-03	ug/mL	100.58	% Recovery	
40	LLS	S1007210054		0 6			Tungsten	LIQUID	1	1.0070E+00			0.2	ug/mL	100.7	% Recovery	
38	LLS	S1007210054		0 4			Yttrium	LIQUID	.1	9.7640E-02			2.00E-03	ug/mL	97.64	% Recovery	
37	LLS	S1007210054		0 3			Zinc	LIQUID	.02	1.7680E-02			5.00E-03	ug/mL	88.4	% Recovery	

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
37	LLS	S1007210054		0 3			Zirconium	LIQUID	.02	2.0110E-02			5.00E-03	ug/mL	100.55	% Recovery	
Sample Sequence 41																	
41	CCB	S1007210053		0 0			Silver	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Aluminum	LIQUID		<3.0000E-02			0.03	ug/mL			
41	CCB	S1007210053		0 0			Arsenic	LIQUID		<5.0000E-02			0.05	ug/mL			
41	CCB	S1007210053		0 0			Boron	LIQUID		<3.0000E-02			0.03	ug/mL			
41	CCB	S1007210053		0 0			Barium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Beryllium	LIQUID		<1.0000E-03			1.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Bismuth	LIQUID		<1.0000E-01			0.1	ug/mL			
41	CCB	S1007210053		0 0			Calcium	LIQUID		<5.0000E-02			0.05	ug/mL			
41	CCB	S1007210053		0 0			Cadmium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Cerium	LIQUID		<3.0000E-02			0.03	ug/mL			
41	CCB	S1007210053		0 0			Cobalt	LIQUID		<1.0000E-02			0.01	ug/mL			
41	CCB	S1007210053		0 0			Chromium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Copper	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Europium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Iron	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
42	CCB	S1007210053		0 1			Potassium	LIQUID		<5.0000E-01			0.5	ug/mL			
41	CCB	S1007210053		0 0			Lanthanum	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Lithium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Magnesium	LIQUID		<5.0000E-02			0.05	ug/mL			
41	CCB	S1007210053		0 0			Manganese	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Molybdenum	LIQUID		<2.0000E-02			0.02	ug/mL			
42	CCB	S1007210053		0 1			Sodium	LIQUID		<1.0000E-01			0.1	ug/mL			
41	CCB	S1007210053		0 0			Neodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
41	CCB	S1007210053		0 0			Nickel	LIQUID		<2.0000E-02			0.02	ug/mL			
41	CCB	S1007210053		0 0			Niobium	LIQUID		<3.0000E-02			0.03	ug/mL			
41	CCB	S1007210053		0 0			Phosphorus	LIQUID		<5.0000E-02			0.05	ug/mL			
41	CCB	S1007210053		0 0			Lead	LIQUID		<5.0000E-02			0.05	ug/mL			
41	CCB	S1007210053		0 0			Palladium	LIQUID		1.0245E-01			0.1	ug/mL			
41	CCB	S1007210053		0 0			Praseodymium	LIQUID		<1.0000E-02			0.01	ug/mL			
41	CCB	S1007210053		0 0			Rubidium	LIQUID		<1.0000E+00			1	ug/mL			
41	CCB	S1007210053		0 0			Rhodium	LIQUID		<5.0000E-02			0.05	ug/mL			
41	CCB	S1007210053		0 0			Ruthenium	LIQUID		<3.0000E-02			0.03	ug/mL			
41	CCB	S1007210053		0 0			Sulfur	LIQUID		<1.0000E-01			0.1	ug/mL			
41	CCB	S1007210053		0 0			Antimony	LIQUID		<5.0000E-02			0.05	ug/mL			
41	CCB	S1007210053		0 0			Selenium	LIQUID		<1.0000E-01			0.1	ug/mL			
41	CCB	S1007210053		0 0			Silicon	LIQUID		<3.0000E-02			0.03	ug/mL			
41	CCB	S1007210053		0 0			Samarium	LIQUID		<2.0000E-02			0.02	ug/mL			
41	CCB	S1007210053		0 0			Tin	LIQUID		<3.0000E-02			0.03	ug/mL			
41	CCB	S1007210053		0 0			Strontium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
42	CCB	S1007210053		0 1			Tantalum	LIQUID		<5.0000E-02			0.05	ug/mL			

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
41	CCB	S1007210053		0 0			Tellurium	LIQUID		<1.0000E-01			0.1	ug/mL			
42	CCB	S1007210053		0 1			Thorium	LIQUID		<5.0000E-02			0.05	ug/mL			
41	CCB	S1007210053		0 0			Titanium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Thallium	LIQUID		<1.0000E-01			0.1	ug/mL			
41	CCB	S1007210053		0 0			Uranium	LIQUID		<1.0000E-01			0.1	ug/mL			
41	CCB	S1007210053		0 0			Vanadium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
41	CCB	S1007210053		0 0			Tungsten	LIQUID		<2.0000E-01			0.2	ug/mL			
41	CCB	S1007210053		0 0			Yttrium	LIQUID		<2.0000E-03			2.00E-03	ug/mL			
42	CCB	S1007210053		0 1			Zinc	LIQUID		<5.0000E-03			5.00E-03	ug/mL			
42	CCB	S1007210053		0 1			Zirconium	LIQUID		<5.0000E-03			5.00E-03	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00020874

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00020874

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1007210041	ICV				
2	S1007210041	ICV				
3	S1007210041	ICV				
4	S1007210043	LLS				
5	S1007210043	LLS				
6	S1007210043	LLS				
7	S1007210043	LLS				
8	S1007210043	LLS				
9	S1007210042	ICB				
10	S1007210044	ICSA				
11	S1007210045	ICSAB				
12	S1007140021	BLNK-PREP				
13	S1007210046	SERDIL	S10V000666			
14	S10V000666	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
15	S1007140023	DUP	S10V000666			
16	S1007140024	SPK-PREDIG	S10V000666			
17	S1007140030	SPK-PREDIG	S10V000666			
18	S1007210048	CCV				
19	S1007210048	CCV				
20	S1007210048	CCV				
21	S1007210049	CCB				
22	S1007210047	SPK-POST	S10V000666			
23	S1007210047	SPK-POST	S10V000666			
24	S1007210047	SPK-POST	S10V000666			
25	S1007210047	SPK-POST	S10V000666			
26	S10V000675	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
27	S10V000684	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
28	S10V000693	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
29	S1007210050	ICSA				
30	S1007210051	ICSAB				
31	S1007210052	CCV				
32	S1007210052	CCV				
33	S1007210052	CCV				
34	S1007210054	LLS				
35	S1007210054	LLS				

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LABCORE Completed Batch Report for Batch# 00020874

36	S1007210054	LLS
37	S1007210054	LLS
38	S1007210054	LLS
39	S1007210054	LLS
40	S1007210054	LLS
41	S1007210053	CCB
42	S1007210053	CCB

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LABCORE Completed Batch Report for Batch# 00019661

Analyst: Shaw, Levi **Book#:**

Instrument: ICP/MS PQ-EXCELL

Method: MS ACTINIDES, LA-506-102 Rev/Mod F-1

Specification: C Farm WMC 2010-1

Prep Batch: 00019100

Batch Comment: ICP-MS determination of actinide analytes for C Farm soil digestates. bsm

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1005260104		0 0			Thorium-232	LIQUID	.001	1.0460E-03			1.70E-07	ug/mL	104.6	% Recovery	
1	ICV	S1005260104		0 0			Uranium-235	LIQUID	.0000072	7.7360E-06			1.10E-08	ug/mL	107.44	% Recovery	
1	ICV	S1005260104		0 0			Neptunium-237	LIQUID	.0011	1.0990E-03			5.30E-08	ug/mL	99.909	% Recovery	
1	ICV	S1005260104		0 0			Uranium-238	LIQUID	.0009928	9.9370E-04			5.50E-07	ug/mL	100.09	% Recovery	
Sample Sequence 2																	
2	LLS	S1005260106		0 0			Thorium-232	LIQUID	.000005	5.8330E-06			1.70E-07	ug/mL	116.66	% Recovery	
2	LLS	S1005260106		0 0			Uranium-235	LIQUID	.000000036	4.3000E-08			1.10E-08	ug/mL	119.44	% Recovery	
2	LLS	S1005260106		0 0			Neptunium-237	LIQUID	.0000049175	5.0580E-06			5.30E-08	ug/mL	102.86	% Recovery	
2	LLS	S1005260106		0 0			Uranium-238	LIQUID	.000004964	5.0920E-06			5.50E-07	ug/mL	102.58	% Recovery	
Sample Sequence 3																	
3	ICB	S1005260105		0 0			Thorium-230	LIQUID		<7.0000E-09			7.00E-09	ug/mL			
3	ICB	S1005260105		0 0			Thorium-232	LIQUID		<1.7000E-07			1.70E-07	ug/mL			
3	ICB	S1005260105		0 0			Uranium-233	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
3	ICB	S1005260105		0 0			Uranium-234	LIQUID		<5.0000E-09			5.00E-09	ug/mL			
3	ICB	S1005260105		0 0			Uranium-235	LIQUID		<1.1000E-08			1.10E-08	ug/mL			
3	ICB	S1005260105		0 0			Uranium-236	LIQUID		<4.0000E-09			4.00E-09	ug/mL			
3	ICB	S1005260105		0 0			Neptunium-237	LIQUID		<5.3000E-08			5.30E-08	ug/mL			
3	ICB	S1005260105		0 0			Uranium-238	LIQUID		<5.5000E-07			5.50E-07	ug/mL			
Sample Sequence 4																	
4	BLNK-PREP	S1004280001		0 0	A		Thorium-230	LIQUID		<2.8000E-06			2.80E-06	ug/mL			
4	BLNK-PREP	S1004280001		0 0	A		Thorium-232	LIQUID		<6.8000E-05			6.80E-05	ug/mL			
4	BLNK-PREP	S1004280001		0 0	A		Uranium-233	LIQUID		<4.0000E-06			4.00E-06	ug/mL			
4	BLNK-PREP	S1004280001		0 0	A		Uranium-234	LIQUID		<2.0000E-06			2.00E-06	ug/mL			
4	BLNK-PREP	S1004280001		0 0	A		Uranium-235	LIQUID		<4.4000E-06			4.40E-06	ug/mL			
4	BLNK-PREP	S1004280001		0 0	A		Uranium-236	LIQUID		<1.6000E-06			1.60E-06	ug/mL			
4	BLNK-PREP	S1004280001		0 0	A		Neptunium-237	LIQUID		<2.1200E-05			2.12E-05	ug/mL			
4	BLNK-PREP	S1004280001		0 0	A		Uranium-238	LIQUID		<2.2000E-04			2.20E-04	ug/mL			
Sample Sequence 5																	
5	SERDIL	S1005260107	S10V000420	0 0			Thorium-230	SOLID		<1.5319E-04			1.53E-04	ug/mL	N/A		
5	SERDIL	S1005260107	S10V000420	0 0			Thorium-232	SOLID		3.7706E+00			3.72E-03	ug/mL	.088218	% Diff	
5	SERDIL	S1005260107	S10V000420	0 0			Uranium-233	SOLID		2.3689E-04			2.19E-04	ug/mL	103.67	% Diff	
5	SERDIL	S1005260107	S10V000420	0 0			Uranium-234	SOLID		<1.0942E-04			1.09E-04	ug/mL	N/A		

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019661

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
5	SERDIL	S1005260107	S10V000420	0 0			Uranium-235	SOLID		3.5846E-03			2.41E-04	ug/mL	6.2934	% Diff	
5	SERDIL	S1005260107	S10V000420	0 0			Uranium-236	SOLID		1.3108E-04			8.75E-05	ug/mL	534.54	% Diff	
5	SERDIL	S1005260107	S10V000420	0 0			Neptunium-237	SOLID		<1.1598E-03			1.16E-03	ug/mL	N/A		
5	SERDIL	S1005260107	S10V000420	0 0			Uranium-238	SOLID		5.5661E-01			0.012036	ug/mL	.21633	% Diff	
Sample Sequence 6																	
6	SAMPLE	S10V000420		0 0	A		Thorium-230	SOLID	N/A	3.8297E-05			3.06E-05	ug/g			J
6	SAMPLE	S10V000420		0 0	A		Thorium-232	SOLID	N/A	3.7739E+00			7.44E-04	ug/g			b
6	SAMPLE	S10V000420		0 0	A		Uranium-233	SOLID	N/A	1.1631E-04			4.38E-05	ug/g			J
6	SAMPLE	S10V000420		0 0	A		Uranium-234	SOLID	N/A	<2.1884E-05			2.19E-05	ug/g			U
6	SAMPLE	S10V000420		0 0	A		Uranium-235	SOLID	N/A	3.8253E-03			4.81E-05	ug/g			
6	SAMPLE	S10V000420		0 0	A		Uranium-236	SOLID	N/A	2.0658E-05			1.75E-05	ug/g			J
6	SAMPLE	S10V000420		0 0	A		Neptunium-237	SOLID	N/A	<2.3197E-04			2.32E-04	ug/g			U
6	SAMPLE	S10V000420		0 0	A		Uranium-238	SOLID	N/A	5.5782E-01			2.41E-03	ug/g			
Sample Sequence 7																	
7	DUP	S1004280003	S10V000420	0 0	A		Thorium-230	SOLID	3.8297E-05	<2.8954E-05			2.90E-05	ug/g			
7	DUP	S1004280003	S10V000420	0 0	A		Thorium-232	SOLID	3.7739E+00	3.1664E+00			7.03E-04	ug/g	17.505	% RPD	
7	DUP	S1004280003	S10V000420	0 0	A		Uranium-233	SOLID	1.1631E-04	1.2605E-04			4.14E-05	ug/g	8.0358	% RPD	
7	DUP	S1004280003	S10V000420	0 0	A		Uranium-234	SOLID	<2.1884E-05	<2.0682E-05			2.07E-05	ug/g			
7	DUP	S1004280003	S10V000420	0 0	A		Uranium-235	SOLID	3.8253E-03	4.5624E-03			4.55E-05	ug/g	17.576	% RPD	
7	DUP	S1004280003	S10V000420	0 0	A		Uranium-236	SOLID	2.0658E-05	<1.6545E-05			1.65E-05	ug/g			
7	DUP	S1004280003	S10V000420	0 0	A		Neptunium-237	SOLID	<2.3197E-04	<2.1923E-04			2.19E-04	ug/g			
7	DUP	S1004280003	S10V000420	0 0	A		Uranium-238	SOLID	5.5782E-01	6.5954E-01			2.28E-03	ug/g	16.712	% RPD	
Sample Sequence 8																	
8	SAMPLE	S10V000578		0 0	A		Thorium-230	SOLID	N/A	<2.9495E-05			2.95E-05	ug/g			U
8	SAMPLE	S10V000578		0 0	A		Thorium-232	SOLID	N/A	5.3196E+00			7.16E-04	ug/g			b
8	SAMPLE	S10V000578		0 0	A		Uranium-233	SOLID	N/A	2.1573E-04			4.21E-05	ug/g			J
8	SAMPLE	S10V000578		0 0	A		Uranium-234	SOLID	N/A	4.1356E-05			2.11E-05	ug/g			J
8	SAMPLE	S10V000578		0 0	A		Uranium-235	SOLID	N/A	6.6016E-03			4.63E-05	ug/g			
8	SAMPLE	S10V000578		0 0	A		Uranium-236	SOLID	N/A	1.9783E-05			1.69E-05	ug/g			J
8	SAMPLE	S10V000578		0 0	A		Neptunium-237	SOLID	N/A	<2.2332E-04			2.23E-04	ug/g			U
8	SAMPLE	S10V000578		0 0	A		Uranium-238	SOLID	N/A	9.7385E-01			2.32E-03	ug/g			
Sample Sequence 9																	
9	SAMPLE	S10V000630		0 0	A	*	Thorium-230	SOLID	N/A	<2.9254E-05			2.93E-05	ug/g			U
9	SAMPLE	S10V000630		0 0	A	*	Thorium-232	SOLID	N/A	3.2734E-03			7.10E-04	ug/g			Jb
9	SAMPLE	S10V000630		0 0	A	*	Uranium-233	SOLID	N/A	<4.1792E-05			4.18E-05	ug/g			U
9	SAMPLE	S10V000630		0 0	A	*	Uranium-234	SOLID	N/A	<2.0896E-05			2.09E-05	ug/g			U
9	SAMPLE	S10V000630		0 0	A	*	Uranium-235	SOLID	N/A	<4.5971E-05			4.60E-05	ug/g			U
9	SAMPLE	S10V000630		0 0	A	*	Uranium-236	SOLID	N/A	<1.6717E-05			1.67E-05	ug/g			U
9	SAMPLE	S10V000630		0 0	A	*	Neptunium-237	SOLID	N/A	<2.2150E-04			2.22E-04	ug/g			U
9	SAMPLE	S10V000630		0 0	A	*	Uranium-238	SOLID	N/A	<2.2986E-03			2.30E-03	ug/g			U
Sample Sequence 10																	
10	SAMPLE	S10V000639		0 0	A		Thorium-230	SOLID	N/A	<2.8577E-05			2.86E-05	ug/g			U

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LABCORE Completed Batch Report for Batch# 00019661

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
10	SAMPLE	S10V000639		0 0	A		Thorium-232	SOLID	N/A	2.2443E+00			6.94E-04	ug/g			b
10	SAMPLE	S10V000639		0 0	A		Uranium-233	SOLID	N/A	1.5809E-04			4.08E-05	ug/g			J
10	SAMPLE	S10V000639		0 0	A		Uranium-234	SOLID	N/A	<2.0412E-05			2.04E-05	ug/g			U
10	SAMPLE	S10V000639		0 0	A		Uranium-235	SOLID	N/A	2.6954E-03			4.49E-05	ug/g			
10	SAMPLE	S10V000639		0 0	A		Uranium-236	SOLID	N/A	<1.6330E-05			1.63E-05	ug/g			U
10	SAMPLE	S10V000639		0 0	A		Neptunium-237	SOLID	N/A	<2.1637E-04			2.16E-04	ug/g			U
10	SAMPLE	S10V000639		0 0	A		Uranium-238	SOLID	N/A	3.9864E-01			2.25E-03	ug/g			
Sample Sequence 11																	
11	SAMPLE	S10V000657		0 0	A		Thorium-230	SOLID	N/A	<3.0124E-05			3.01E-05	ug/g			U
11	SAMPLE	S10V000657		0 0	A		Thorium-232	SOLID	N/A	2.2141E+00			7.32E-04	ug/g			b
11	SAMPLE	S10V000657		0 0	A		Uranium-233	SOLID	N/A	9.7009E-05			4.30E-05	ug/g			J
11	SAMPLE	S10V000657		0 0	A		Uranium-234	SOLID	N/A	2.6724E-05			2.15E-05	ug/g			J
11	SAMPLE	S10V000657		0 0	A		Uranium-235	SOLID	N/A	2.9328E-03			4.73E-05	ug/g			
11	SAMPLE	S10V000657		0 0	A		Uranium-236	SOLID	N/A	<1.7214E-05			1.72E-05	ug/g			U
11	SAMPLE	S10V000657		0 0	A		Neptunium-237	SOLID	N/A	<2.2808E-04			2.28E-04	ug/g			U
11	SAMPLE	S10V000657		0 0	A		Uranium-238	SOLID	N/A	4.1625E-01			2.37E-03	ug/g			
Sample Sequence 12																	
12	SAMPLE	S10V000088		0 0	A		Thorium-230	SOLID	N/A	<2.8833E-05			2.88E-05	ug/g			U
12	SAMPLE	S10V000088		0 0	A		Thorium-232	SOLID	N/A	2.5167E+00			7.00E-04	ug/g			
12	SAMPLE	S10V000088		0 0	A		Uranium-233	SOLID	N/A	8.9649E-05			4.12E-05	ug/g			J
12	SAMPLE	S10V000088		0 0	A		Uranium-234	SOLID	N/A	<2.0595E-05			2.06E-05	ug/g			U
12	SAMPLE	S10V000088		0 0	A		Uranium-235	SOLID	N/A	2.8328E-03			4.53E-05	ug/g			
12	SAMPLE	S10V000088		0 0	A		Uranium-236	SOLID	N/A	<1.6476E-05			1.65E-05	ug/g			U
12	SAMPLE	S10V000088		0 0	A		Neptunium-237	SOLID	N/A	<2.1830E-04			2.18E-04	ug/g			U
12	SAMPLE	S10V000088		0 0	A		Uranium-238	SOLID	N/A	4.3671E-01			2.27E-03	ug/g			
Sample Sequence 13																	
13	CCV	S1005260109		0 0			Thorium-232	LIQUID	.001	1.0460E-03			1.70E-07	ug/mL	104.6	% Recovery	
13	CCV	S1005260109		0 0			Uranium-235	LIQUID	.0000072	7.7190E-06			1.10E-08	ug/mL	107.21	% Recovery	
13	CCV	S1005260109		0 0			Neptunium-237	LIQUID	.0011	1.1020E-03			5.30E-08	ug/mL	100.18	% Recovery	
13	CCV	S1005260109		0 0			Uranium-238	LIQUID	.0009928	1.0010E-03			5.50E-07	ug/mL	100.83	% Recovery	
Sample Sequence 14																	
14	CCB	S1005260110		0 0			Thorium-230	LIQUID		<7.0000E-09			7.00E-09	ug/mL			
14	CCB	S1005260110		0 0			Thorium-232	LIQUID		<1.7000E-07			1.70E-07	ug/mL			
14	CCB	S1005260110		0 0			Uranium-233	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
14	CCB	S1005260110		0 0			Uranium-234	LIQUID		<5.0000E-09			5.00E-09	ug/mL			
14	CCB	S1005260110		0 0			Uranium-235	LIQUID		<1.1000E-08			1.10E-08	ug/mL			
14	CCB	S1005260110		0 0			Uranium-236	LIQUID		<4.0000E-09			4.00E-09	ug/mL			
14	CCB	S1005260110		0 0			Neptunium-237	LIQUID		<5.3000E-08			5.30E-08	ug/mL			
14	CCB	S1005260110		0 0			Uranium-238	LIQUID		<5.5000E-07			5.50E-07	ug/mL			
Sample Sequence 15																	
15	SAMPLE	S09V001618		0 0	A		Thorium-230	SOLID	N/A	<2.9458E-05			2.95E-05	ug/g			U
15	SAMPLE	S09V001618		0 0	A		Thorium-232	SOLID	N/A	2.9763E+00			7.15E-04	ug/g			

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LABCORE Completed Batch Report for Batch# 00019661

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
15	SAMPLE	S09V001618		0 0	A		Uranium-233	SOLID	N/A	1.2383E-04			4.21E-05	ug/g			J
15	SAMPLE	S09V001618		0 0	A		Uranium-234	SOLID	N/A	3.1656E-05			2.10E-05	ug/g			J
15	SAMPLE	S09V001618		0 0	A		Uranium-235	SOLID	N/A	3.4255E-03			4.63E-05	ug/g			
15	SAMPLE	S09V001618		0 0	A		Uranium-236	SOLID	N/A	2.0073E-05			1.68E-05	ug/g			J
15	SAMPLE	S09V001618		0 0	A		Neptunium-237	SOLID	N/A	<2.2304E-04			2.23E-04	ug/g			U
15	SAMPLE	S09V001618		0 0	A		Uranium-238	SOLID	N/A	4.9320E-01			2.31E-03	ug/g			
Sample Sequence 16																	
16	SAMPLE	S09V001630		0 0	A		Thorium-230	SOLID	N/A	<2.9635E-05			2.96E-05	ug/g			U
16	SAMPLE	S09V001630		0 0	A		Thorium-232	SOLID	N/A	2.5052E+00			7.20E-04	ug/g			
16	SAMPLE	S09V001630		0 0	A		Uranium-233	SOLID	N/A	1.0159E-04			4.23E-05	ug/g			J
16	SAMPLE	S09V001630		0 0	A		Uranium-234	SOLID	N/A	4.7364E-05			2.12E-05	ug/g			J
16	SAMPLE	S09V001630		0 0	A		Uranium-235	SOLID	N/A	2.6756E-03			4.66E-05	ug/g			
16	SAMPLE	S09V001630		0 0	A		Uranium-236	SOLID	N/A	2.0099E-05			1.69E-05	ug/g			J
16	SAMPLE	S09V001630		0 0	A		Neptunium-237	SOLID	N/A	<2.2438E-04			2.24E-04	ug/g			U
16	SAMPLE	S09V001630		0 0	A		Uranium-238	SOLID	N/A	4.0632E-01			2.33E-03	ug/g			
Sample Sequence 17																	
17	SAMPLE	S09V001645		0 0	A		Thorium-230	SOLID	N/A	6.4076E-05			3.00E-05	ug/g			J
17	SAMPLE	S09V001645		0 0	A		Thorium-232	SOLID	N/A	3.0144E+00			7.28E-04	ug/g			
17	SAMPLE	S09V001645		0 0	A		Uranium-233	SOLID	N/A	1.4007E-04			4.28E-05	ug/g			J
17	SAMPLE	S09V001645		0 0	A		Uranium-234	SOLID	N/A	6.7917E-05			2.14E-05	ug/g			J
17	SAMPLE	S09V001645		0 0	A		Uranium-235	SOLID	N/A	6.8977E-03			4.71E-05	ug/g			
17	SAMPLE	S09V001645		0 0	A		Uranium-236	SOLID	N/A	1.9989E-05			1.71E-05	ug/g			J
17	SAMPLE	S09V001645		0 0	A		Neptunium-237	SOLID	N/A	<2.2685E-04			2.27E-04	ug/g			U
17	SAMPLE	S09V001645		0 0	A		Uranium-238	SOLID	N/A	1.0058E+00			2.35E-03	ug/g			
Sample Sequence 18																	
19	STD-PREP	S1004280002		0 1	A		Thorium-232	LIQUID	.02	2.1300E-02			3.40E-06	ug/mL	106.5	% Recovery	
19	STD-PREP	S1004280002		0 1	A		Uranium-235	LIQUID	.000144	1.3930E-04			2.20E-07	ug/mL	96.736	% Recovery	
18	STD-PREP	S1004280002		0 0	A		Neptunium-237	LIQUID	.0175	1.7980E-02			1.06E-06	ug/mL	102.74	% Recovery	
19	STD-PREP	S1004280002		0 1	A		Uranium-238	LIQUID	.019856	2.0760E-02			1.10E-05	ug/mL	104.55	% Recovery	
Sample Sequence 20																	
20	SPK-PREDIG	S1004280009	S10V000420	0 0	A		Neptunium-237	SOLID	.51993425	5.5331E-01			2.20E-04	ug/g	106.42	% Recovery	
Sample Sequence 21																	
21	SPK-PREDIG	S1004280010	S10V000420	0 0	A		Thorium-232	SOLID	1.0735834	4.4414E+00			7.30E-04	ug/g	62.176	% Recovery	
21	SPK-PREDIG	S1004280010	S10V000420	0 0	A		Uranium-235	SOLID	.00772980048	1.0672E-02			4.72E-05	ug/g	88.582	% Recovery	
21	SPK-PREDIG	S1004280010	S10V000420	0 0	A		Uranium-238	SOLID	1.06585359952	1.5653E+00			2.36E-03	ug/g	94.522	% Recovery	
Sample Sequence 22																	
22	SPK-POST	S1005260108	S10V000420	0 0			Thorium-232	SOLID	.4	7.5430E-01			1.70E-07	ug/mL	102.35	% Recovery	
22	SPK-POST	S1005260108	S10V000420	0 0			Uranium-235	SOLID	.00288	3.2120E-03			1.10E-08	ug/mL	99.389	% Recovery	
22	SPK-POST	S1005260108	S10V000420	0 0			Neptunium-237	SOLID	.3934	3.9710E-01			5.30E-08	ug/mL	100.94	% Recovery	
22	SPK-POST	S1005260108	S10V000420	0 0			Uranium-238	SOLID	.39712	4.6080E-01			5.50E-07	ug/mL	103.2	% Recovery	
Sample Sequence 23																	
23	CCV	S1005260111		0 0			Thorium-232	LIQUID	.001	1.0510E-03			1.70E-07	ug/mL	105.1	% Recovery	

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019661

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
23	CCV	S1005260111		0 0			Uranium-235	LIQUID	.0000072	7.4630E-06			1.10E-08	ug/mL	103.65	% Recovery	
23	CCV	S1005260111		0 0			Neptunium-237	LIQUID	.0011	1.1110E-03			5.30E-08	ug/mL	101	% Recovery	
23	CCV	S1005260111		0 0			Uranium-238	LIQUID	.0009928	1.0090E-03			5.50E-07	ug/mL	101.63	% Recovery	
Sample Sequence 24																	
24	LLS	S1005260113		0 0			Thorium-232	LIQUID	.000005	6.6950E-06			1.70E-07	ug/mL	133.9	% Recovery	
24	LLS	S1005260113		0 0			Uranium-235	LIQUID	.000000036	4.5000E-08			1.10E-08	ug/mL	125	% Recovery	
24	LLS	S1005260113		0 0			Neptunium-237	LIQUID	.0000049715	5.2420E-06			5.30E-08	ug/mL	105.44	% Recovery	
24	LLS	S1005260113		0 0			Uranium-238	LIQUID	.000004964	5.2330E-06			5.50E-07	ug/mL	105.42	% Recovery	
Sample Sequence 25																	
25	CCB	S1005260112		0 0			Thorium-230	LIQUID		<7.0000E-09			7.00E-09	ug/mL			
25	CCB	S1005260112		0 0			Thorium-232	LIQUID		<1.7000E-07			1.70E-07	ug/mL			
25	CCB	S1005260112		0 0			Uranium-233	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
25	CCB	S1005260112		0 0			Uranium-234	LIQUID		<5.0000E-09			5.00E-09	ug/mL			
25	CCB	S1005260112		0 0			Uranium-235	LIQUID		<1.1000E-08			1.10E-08	ug/mL			
25	CCB	S1005260112		0 0			Uranium-236	LIQUID		<4.0000E-09			4.00E-09	ug/mL			
25	CCB	S1005260112		0 0			Neptunium-237	LIQUID		6.5000E-08			5.30E-08	ug/mL			
25	CCB	S1005260112		0 0			Uranium-238	LIQUID		<5.5000E-07			5.50E-07	ug/mL			
Sample Sequence 26																	
26	ICV	S1006040099		0 0			Thorium-232	LIQUID	.001	9.9250E-04			1.70E-07	ug/mL	99.25	% Recovery	
Sample Sequence 27																	
27	LLS	S1006040100		0 0			Thorium-232	LIQUID	.000005	5.6120E-06			1.70E-07	ug/mL	112.24	% Recovery	
Sample Sequence 28																	
28	ICB	S1006040098		0 0			Thorium-232	LIQUID		<1.7000E-07			1.70E-07	ug/mL			
Sample Sequence 29																	
29	SPK-PREDIG	S1004280008	S10V000420	0 0	A		Thorium-232	SOLID	59.188405	6.2787E+01			0.010062	ug/g	99.704	% Recovery	
Sample Sequence 30																	
30	CCV	S1006040097		0 0			Thorium-232	LIQUID	.001	9.8740E-04			1.70E-07	ug/mL	98.74	% Recovery	
Sample Sequence 31																	
31	LLS	S1006040101		0 0			Thorium-232	LIQUID	.000005	5.7280E-06			1.70E-07	ug/mL	114.56	% Recovery	
Sample Sequence 32																	
32	CCB	S1006040096		0 0			Thorium-232	LIQUID		<1.7000E-07			1.70E-07	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

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LABCORE Completed Batch Report for Batch# 00019661

Final Page for Batch# 00019661

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00019661

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005260104	ICV				
2	S1005260106	LLS				
3	S1005260105	ICB				
4	S1004280001	BLNK-PREP				
5	S1005260107	SERDIL	S10V000420			
6	S10V000420	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
7	S1004280003	DUP	S10V000420			
8	S10V000578	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
9	S10V000630	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
10	S10V000639	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
11	S10V000657	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
12	S10V000088	SAMPLE		20090877	B238K3	C Farm WMC 2010-1
13	S1005260109	CCV				
14	S1005260110	CCB				
15	S09V001618	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
16	S09V001630	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
17	S09V001645	SAMPLE		20090877	B236P2	C Farm WMC 2010-1
18	S1004280002	STD-PREP				
19	S1004280002	STD-PREP				
20	S1004280009	SPK-PREDIG	S10V000420			
21	S1004280010	SPK-PREDIG	S10V000420			
22	S1005260108	SPK-POST	S10V000420			
23	S1005260111	CCV				
24	S1005260113	LLS				
25	S1005260112	CCB				
26	S1006040099	ICV				
27	S1006040100	LLS				
28	S1006040098	ICB				
29	S1004280008	SPK-PREDIG	S10V000420			
30	S1006040097	CCV				
31	S1006040101	LLS				
32	S1006040096	CCB				

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LABCORE Completed Batch Report for Batch# 00020266

Analyst: Mull, Bryanna **Book#:**

Instrument: ICP/MS PQ-EXCELL

Method: MS ACTINIDES, LA-506-102 Rev/Mod F-1

Specification: C Farm WMC 2010-1

Prep Batch: 00019633

Batch Comment: ICP-MS actinides analysis for C Farm WMC 2010-1 acid digestates. bsm

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1006230040		0 0			Thorium-232	LIQUID	.001	1.0000E-03			1.70E-07	ug/mL	100	% Recovery	
1	ICV	S1006230040		0 0			Uranium-235	LIQUID	.0000072	7.2840E-06			1.10E-08	ug/mL	101.17	% Recovery	
1	ICV	S1006230040		0 0			Neptunium-237	LIQUID	.0011	1.0950E-03			5.30E-08	ug/mL	99.545	% Recovery	
1	ICV	S1006230040		0 0			Uranium-238	LIQUID	.0009928	9.7630E-04			5.50E-07	ug/mL	98.338	% Recovery	
Sample Sequence 2																	
2	LLS	S1006230042		0 0			Thorium-232	LIQUID	.000005	4.7490E-06			1.70E-07	ug/mL	94.98	% Recovery	
2	LLS	S1006230042		0 0			Uranium-235	LIQUID	.000000036	1.9000E-08			1.10E-08	ug/mL	52.778	% Recovery	
2	LLS	S1006230042		0 0			Neptunium-237	LIQUID	.0000049175	5.0200E-06			5.30E-08	ug/mL	102.08	% Recovery	
2	LLS	S1006230042		0 0			Uranium-238	LIQUID	.000004964	4.8330E-06			5.50E-07	ug/mL	97.361	% Recovery	
Sample Sequence 3																	
3	ICB	S1006230041		0 0			Thorium-230	LIQUID		<7.0000E-09			7.00E-09	ug/mL			
3	ICB	S1006230041		0 0			Thorium-232	LIQUID		<1.7000E-07			1.70E-07	ug/mL			
3	ICB	S1006230041		0 0			Uranium-233	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
3	ICB	S1006230041		0 0			Uranium-234	LIQUID		<5.0000E-09			5.00E-09	ug/mL			
3	ICB	S1006230041		0 0			Uranium-235	LIQUID		<1.1000E-08			1.10E-08	ug/mL			
3	ICB	S1006230041		0 0			Uranium-236	LIQUID		<4.0000E-09			4.00E-09	ug/mL			
3	ICB	S1006230041		0 0			Neptunium-237	LIQUID		7.1000E-08			5.30E-08	ug/mL			
3	ICB	S1006230041		0 0			Uranium-238	LIQUID		<5.5000E-07			5.50E-07	ug/mL			
Sample Sequence 4																	
4	CCV	S1006230045		0 0			Thorium-232	LIQUID	.001	1.0060E-03			1.70E-07	ug/mL	100.6	% Recovery	
4	CCV	S1006230045		0 0			Uranium-235	LIQUID	.0000072	7.4910E-06			1.10E-08	ug/mL	104.04	% Recovery	
4	CCV	S1006230045		0 0			Neptunium-237	LIQUID	.0011	1.1070E-03			5.30E-08	ug/mL	100.64	% Recovery	
4	CCV	S1006230045		0 0			Uranium-238	LIQUID	.0009928	9.8440E-04			5.50E-07	ug/mL	99.154	% Recovery	
Sample Sequence 5																	
5	CCB	S1006230046		0 0			Thorium-230	LIQUID		<7.0000E-09			7.00E-09	ug/mL			
5	CCB	S1006230046		0 0			Thorium-232	LIQUID		<1.7000E-07			1.70E-07	ug/mL			
5	CCB	S1006230046		0 0			Uranium-233	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
5	CCB	S1006230046		0 0			Uranium-234	LIQUID		<5.0000E-09			5.00E-09	ug/mL			
5	CCB	S1006230046		0 0			Uranium-235	LIQUID		<1.1000E-08			1.10E-08	ug/mL			
5	CCB	S1006230046		0 0			Uranium-236	LIQUID		<4.0000E-09			4.00E-09	ug/mL			
5	CCB	S1006230046		0 0			Neptunium-237	LIQUID		<5.3000E-08			5.30E-08	ug/mL			
5	CCB	S1006230046		0 0			Uranium-238	LIQUID		<5.5000E-07			5.50E-07	ug/mL			

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LABCORE Completed Batch Report for Batch# 00020266

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 6																	
6	BLNK-PREP	S1005250069		0 0	A		Thorium-230	LIQUID		<2.8000E-06			2.80E-06	ug/mL			
6	BLNK-PREP	S1005250069		0 0	A		Thorium-232	LIQUID		<6.8000E-05			6.80E-05	ug/mL			
6	BLNK-PREP	S1005250069		0 0	A		Uranium-233	LIQUID		<4.0000E-06			4.00E-06	ug/mL			
6	BLNK-PREP	S1005250069		0 0	A		Uranium-234	LIQUID		<2.0000E-06			2.00E-06	ug/mL			
6	BLNK-PREP	S1005250069		0 0	A		Uranium-235	LIQUID		<4.4000E-06			4.40E-06	ug/mL			
6	BLNK-PREP	S1005250069		0 0	A		Uranium-236	LIQUID		<1.6000E-06			1.60E-06	ug/mL			
6	BLNK-PREP	S1005250069		0 0	A		Neptunium-237	LIQUID		<2.1200E-05			2.12E-05	ug/mL			
6	BLNK-PREP	S1005250069		0 0	A		Uranium-238	LIQUID		<2.2000E-04			2.20E-04	ug/mL			
Sample Sequence 7																	
7	SERDIL	S1006230043	S10V000666	0 0			Thorium-230	SOLID		<1.6890E-04			1.69E-04	ug/g	N/A		
7	SERDIL	S1006230043	S10V000666	0 0			Thorium-232	SOLID		3.1041E+00			4.10E-03	ug/g	.5088	% Diff	
7	SERDIL	S1006230043	S10V000666	0 0			Uranium-233	SOLID		<2.4128E-04			2.41E-04	ug/g	N/A		
7	SERDIL	S1006230043	S10V000666	0 0			Uranium-234	SOLID		<1.2064E-04			1.21E-04	ug/g	N/A		
7	SERDIL	S1006230043	S10V000666	0 0			Uranium-235	SOLID		3.8786E-03			2.65E-04	ug/g	2.3548	% Diff	
7	SERDIL	S1006230043	S10V000666	0 0			Uranium-236	SOLID		<9.6513E-05			9.65E-05	ug/g	N/A		
7	SERDIL	S1006230043	S10V000666	0 0			Neptunium-237	SOLID		<1.2788E-03			1.28E-03	ug/g	N/A		
7	SERDIL	S1006230043	S10V000666	0 0			Uranium-238	SOLID		5.4192E-01			0.013271	ug/g	.35432	% Diff	
Sample Sequence 8																	
8	SAMPLE	S10V000666		0 0	A		Thorium-230	SOLID	N/A	<3.3780E-05			3.38E-05	ug/g			U
8	SAMPLE	S10V000666		0 0	A		Thorium-232	SOLID	N/A	3.0884E+00			8.20E-04	ug/g			
8	SAMPLE	S10V000666		0 0	A		Uranium-233	SOLID	N/A	9.8130E-05			4.83E-05	ug/g			J
8	SAMPLE	S10V000666		0 0	A		Uranium-234	SOLID	N/A	<2.4128E-05			2.41E-05	ug/g			U
8	SAMPLE	S10V000666		0 0	A		Uranium-235	SOLID	N/A	3.7894E-03			5.31E-05	ug/g			
8	SAMPLE	S10V000666		0 0	A		Uranium-236	SOLID	N/A	<1.9303E-05			1.93E-05	ug/g			U
8	SAMPLE	S10V000666		0 0	A		Neptunium-237	SOLID	N/A	<2.5576E-04			2.56E-04	ug/g			U
8	SAMPLE	S10V000666		0 0	A		Uranium-238	SOLID	N/A	5.4385E-01			2.65E-03	ug/g			
Sample Sequence 9																	
9	DUP	S1005250071	S10V000666	0 0	A		Thorium-230	SOLID	<3.3780E-05	<3.2389E-05			3.24E-05	ug/g			
9	DUP	S1005250071	S10V000666	0 0	A		Thorium-232	SOLID	3.0884E+00	2.7010E+00			7.87E-04	ug/g	13.384	% RPD	
9	DUP	S1005250071	S10V000666	0 0	A		Uranium-233	SOLID	9.8130E-05	8.6688E-05			4.63E-05	ug/g	12.382	% RPD	
9	DUP	S1005250071	S10V000666	0 0	A		Uranium-234	SOLID	<2.4128E-05	<2.3135E-05			2.31E-05	ug/g			
9	DUP	S1005250071	S10V000666	0 0	A		Uranium-235	SOLID	3.7894E-03	3.2285E-03			5.09E-05	ug/g	15.984	% RPD	
9	DUP	S1005250071	S10V000666	0 0	A		Uranium-236	SOLID	<1.9303E-05	<1.8508E-05			1.85E-05	ug/g			
9	DUP	S1005250071	S10V000666	0 0	A		Neptunium-237	SOLID	<2.5576E-04	<2.4523E-04			2.45E-04	ug/g			
9	DUP	S1005250071	S10V000666	0 0	A		Uranium-238	SOLID	5.4385E-01	5.0285E-01			2.54E-03	ug/g	7.8348	% RPD	
Sample Sequence 10																	
10	SAMPLE	S10V000675		0 0	A		Thorium-230	SOLID	N/A	<3.3466E-05			3.35E-05	ug/g			U
10	SAMPLE	S10V000675		0 0	A		Thorium-232	SOLID	N/A	3.6000E+00			8.13E-04	ug/g			
10	SAMPLE	S10V000675		0 0	A		Uranium-233	SOLID	N/A	1.4426E-04			4.78E-05	ug/g			J
10	SAMPLE	S10V000675		0 0	A		Uranium-234	SOLID	N/A	<2.3905E-05			2.39E-05	ug/g			U
10	SAMPLE	S10V000675		0 0	A		Uranium-235	SOLID	N/A	4.0279E-03			5.26E-05	ug/g			

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LABCORE Completed Batch Report for Batch# 00020266

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
10	SAMPLE	S10V000675		0 0	A		Uranium-236	SOLID	N/A	<1.9124E-05			1.91E-05	ug/g			U
10	SAMPLE	S10V000675		0 0	A		Neptunium-237	SOLID	N/A	<2.5339E-04			2.53E-04	ug/g			U
10	SAMPLE	S10V000675		0 0	A		Uranium-238	SOLID	N/A	5.6475E-01			2.63E-03	ug/g			
Sample Sequence 11																	
11	SAMPLE	S10V000684		0 0	A		Thorium-230	SOLID	N/A	<2.8847E-05			2.88E-05	ug/g			U
11	SAMPLE	S10V000684		0 0	A		Thorium-232	SOLID	N/A	3.1505E+00			7.01E-04	ug/g			
11	SAMPLE	S10V000684		0 0	A		Uranium-233	SOLID	N/A	7.6620E-05			4.12E-05	ug/g			J
11	SAMPLE	S10V000684		0 0	A		Uranium-234	SOLID	N/A	3.2916E-05			2.06E-05	ug/g			J
11	SAMPLE	S10V000684		0 0	A		Uranium-235	SOLID	N/A	3.9840E-03			4.53E-05	ug/g			
11	SAMPLE	S10V000684		0 0	A		Uranium-236	SOLID	N/A	<1.6484E-05			1.65E-05	ug/g			U
11	SAMPLE	S10V000684		0 0	A		Neptunium-237	SOLID	N/A	<2.1841E-04			2.18E-04	ug/g			U
11	SAMPLE	S10V000684		0 0	A		Uranium-238	SOLID	N/A	5.5499E-01			2.27E-03	ug/g			
Sample Sequence 12																	
12	SAMPLE	S10V000693		0 0	A		Thorium-230	SOLID	N/A	3.1879E-05			2.99E-05	ug/g			BJ
12	SAMPLE	S10V000693		0 0	A		Thorium-232	SOLID	N/A	2.6257E+00			7.26E-04	ug/g			
12	SAMPLE	S10V000693		0 0	A		Uranium-233	SOLID	N/A	5.1361E-05			4.27E-05	ug/g			J
12	SAMPLE	S10V000693		0 0	A		Uranium-234	SOLID	N/A	2.7740E-05			2.13E-05	ug/g			J
12	SAMPLE	S10V000693		0 0	A		Uranium-235	SOLID	N/A	3.3459E-03			4.69E-05	ug/g			
12	SAMPLE	S10V000693		0 0	A		Uranium-236	SOLID	N/A	<1.7071E-05			1.71E-05	ug/g			U
12	SAMPLE	S10V000693		0 0	A		Neptunium-237	SOLID	N/A	<2.2619E-04			2.26E-04	ug/g			U
12	SAMPLE	S10V000693		0 0	A		Uranium-238	SOLID	N/A	4.4586E-01			2.35E-03	ug/g			
Sample Sequence 13																	
13	CCV	S1006230047		0 0			Thorium-232	LIQUID	.001	1.0050E-03			1.70E-07	ug/mL	100.5	% Recovery	
13	CCV	S1006230047		0 0			Uranium-235	LIQUID	.0000072	7.2380E-06			1.10E-08	ug/mL	100.53	% Recovery	
13	CCV	S1006230047		0 0			Neptunium-237	LIQUID	.0011	1.1040E-03			5.30E-08	ug/mL	100.36	% Recovery	
13	CCV	S1006230047		0 0			Uranium-238	LIQUID	.0009928	9.8000E-04			5.50E-07	ug/mL	98.711	% Recovery	
Sample Sequence 14																	
14	CCB	S1006230048		0 0			Thorium-230	LIQUID		7.0000E-09			7.00E-09	ug/mL			
14	CCB	S1006230048		0 0			Thorium-232	LIQUID		<1.7000E-07			1.70E-07	ug/mL			
14	CCB	S1006230048		0 0			Uranium-233	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
14	CCB	S1006230048		0 0			Uranium-234	LIQUID		<5.0000E-09			5.00E-09	ug/mL			
14	CCB	S1006230048		0 0			Uranium-235	LIQUID		<1.1000E-08			1.10E-08	ug/mL			
14	CCB	S1006230048		0 0			Uranium-236	LIQUID		<4.0000E-09			4.00E-09	ug/mL			
14	CCB	S1006230048		0 0			Neptunium-237	LIQUID		<5.3000E-08			5.30E-08	ug/mL			
14	CCB	S1006230048		0 0			Uranium-238	LIQUID		<5.5000E-07			5.50E-07	ug/mL			
Sample Sequence 15																	
16	STD-PREP	S1005250070		0 1	A		Thorium-232	LIQUID	.02	2.1630E-02			3.40E-06	ug/mL	108.15	% Recovery	
16	STD-PREP	S1005250070		0 1	A		Uranium-235	LIQUID	.000144	1.4010E-04			2.20E-07	ug/mL	97.292	% Recovery	
15	STD-PREP	S1005250070		0 0	A		Neptunium-237	LIQUID	.017514	1.8520E-02			1.06E-06	ug/mL	105.74	% Recovery	
16	STD-PREP	S1005250070		0 1	A		Uranium-238	LIQUID	.019856	2.0840E-02			1.10E-05	ug/mL	104.96	% Recovery	
Sample Sequence 18																	
18	SPK-PREDIG	S1005250077	S10V000666	0 0	A		Neptunium-237	SOLID	.50390715348	5.1942E-01			2.13E-04	ug/g	103.08	% Recovery	
Sample Sequence 19																	

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LABCORE Completed Batch Report for Batch# 00020266

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
19	SPK-PREDIG	S1005250079	S10V000666	0 0	A		Thorium-232	SOLID	1.1189938	4.3775E+00			7.61E-04	ug/g	115.2	% Recovery	
19	SPK-PREDIG	S1005250079	S10V000666	0 0	A		Uranium-235	SOLID	.00805675536	1.1727E-02			4.92E-05	ug/g	98.522	% Recovery	
19	SPK-PREDIG	S1005250079	S10V000666	0 0	A		Uranium-238	SOLID	1.11093704464	1.6886E+00			2.46E-03	ug/g	103.04	% Recovery	
Sample Sequence 20																	
20	SPK-POST	S1006230044	S10V000666	0 0			Thorium-232	SOLID	.4	6.6330E-01			1.70E-07	ug/mL	101.82	% Recovery	
20	SPK-POST	S1006230044	S10V000666	0 0			Uranium-235	SOLID	.00288	3.0000E-03			1.10E-08	ug/mL	93.26	% Recovery	
20	SPK-POST	S1006230044	S10V000666	0 0			Neptunium-237	SOLID		1.8890E-05			5.30E-08	ug/mL	N/A		
20	SPK-POST	S1006230044	S10V000666	0 0			Uranium-238	SOLID	.39712	4.4080E-01			5.50E-07	ug/mL	99.647	% Recovery	
Sample Sequence 21																	
21	CCV	S1006230050		0 0			Thorium-232	LIQUID	.001	1.0060E-03			1.70E-07	ug/mL	100.6	% Recovery	
21	CCV	S1006230050		0 0			Uranium-235	LIQUID	.0000072	7.4250E-06			1.10E-08	ug/mL	103.12	% Recovery	
21	CCV	S1006230050		0 0			Neptunium-237	LIQUID	.0011	1.1060E-03			5.30E-08	ug/mL	100.55	% Recovery	
21	CCV	S1006230050		0 0			Uranium-238	LIQUID	.0009928	9.8460E-04			5.50E-07	ug/mL	99.174	% Recovery	
Sample Sequence 22																	
22	LLS	S1006230051		0 0			Thorium-232	LIQUID	.000005	4.5940E-06			1.70E-07	ug/mL	91.88	% Recovery	
22	LLS	S1006230051		0 0			Uranium-235	LIQUID	.000000036	3.2000E-08			1.10E-08	ug/mL	88.889	% Recovery	
22	LLS	S1006230051		0 0			Neptunium-237	LIQUID	.0000049175	5.2310E-06			5.30E-08	ug/mL	106.38	% Recovery	
22	LLS	S1006230051		0 0			Uranium-238	LIQUID	.000004964	4.8990E-06			5.50E-07	ug/mL	98.691	% Recovery	
Sample Sequence 23																	
23	CCB	S1006230049		0 0			Thorium-230	LIQUID		<7.0000E-09			7.00E-09	ug/mL			
23	CCB	S1006230049		0 0			Thorium-232	LIQUID		<1.7000E-07			1.70E-07	ug/mL			
23	CCB	S1006230049		0 0			Uranium-233	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
23	CCB	S1006230049		0 0			Uranium-234	LIQUID		<5.0000E-09			5.00E-09	ug/mL			
23	CCB	S1006230049		0 0			Uranium-235	LIQUID		<1.1000E-08			1.10E-08	ug/mL			
23	CCB	S1006230049		0 0			Uranium-236	LIQUID		<4.0000E-09			4.00E-09	ug/mL			
23	CCB	S1006230049		0 0			Neptunium-237	LIQUID		<5.3000E-08			5.30E-08	ug/mL			
23	CCB	S1006230049		0 0			Uranium-238	LIQUID		<5.5000E-07			5.50E-07	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020266

Final Page for Batch# 00020266

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00020266

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006230040	ICV				
2	S1006230042	LLS				
3	S1006230041	ICB				
4	S1006230045	CCV				
5	S1006230046	CCB				
6	S1005250069	BLNK-PREP				
7	S1006230043	SERDIL	S10V000666			
8	S10V000666	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
9	S1005250071	DUP	S10V000666			
10	S10V000675	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
11	S10V000684	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
12	S10V000693	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
13	S1006230047	CCV				
14	S1006230048	CCB				
15	S1005250070	STD-PREP				
16	S1005250070	STD-PREP				
17	S1005250073	SPK-PREDIG	S10V000666			
18	S1005250077	SPK-PREDIG	S10V000666			
19	S1005250079	SPK-PREDIG	S10V000666			
20	S1006230044	SPK-POST	S10V000666			
21	S1006230050	CCV				
22	S1006230051	LLS				
23	S1006230049	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00023864

Analyst: Shaw, Levi

Book#:

Instrument: ICP/MS PQ-EXCELL

Method: MS ACTINIDES, LA-506-102 Rev/Mod F-1

Specification: C Farm WMC 2010-1

Prep Batch: 00019100, 00022273

Batch Comment:

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1011050101		0 0			Thorium-232	LIQUID	.001	9.8250E-04			5.00E-07	ug/mL	98.25	% Recovery	
1	ICV	S1011050101		0 0			Uranium-235	LIQUID	.0000072	7.1980E-06			1.00E-08	ug/mL	99.972	% Recovery	
1	ICV	S1011050101		0 0			Neptunium-237	LIQUID	.00115	1.0720E-03			1.00E-07	ug/mL	93.217	% Recovery	
1	ICV	S1011050101		0 0			Uranium-238	LIQUID	.0009928	9.7540E-04			5.00E-07	ug/mL	98.247	% Recovery	
Sample Sequence 2																	
2	LLS	S1011050103		0 0			Thorium-232	LIQUID	.000005	5.5110E-06			5.00E-07	ug/mL	110.22	% Recovery	
2	LLS	S1011050103		0 0			Uranium-235	LIQUID	.000000036	2.6000E-08			1.00E-08	ug/mL	72.222	% Recovery	
2	LLS	S1011050103		0 0			Neptunium-237	LIQUID	.00000505	4.9360E-06			1.00E-07	ug/mL	97.743	% Recovery	
2	LLS	S1011050103		0 0			Uranium-238	LIQUID	.000004964	4.8400E-06			5.00E-07	ug/mL	97.502	% Recovery	
Sample Sequence 3																	
3	ICB	S1011050102		0 0			Thorium-230	LIQUID		<7.0000E-09			7.00E-09	ug/mL			
3	ICB	S1011050102		0 0			Thorium-232	LIQUID		5.0700E-07			5.00E-07	ug/mL			
3	ICB	S1011050102		0 0			Uranium-233	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
3	ICB	S1011050102		0 0			Uranium-234	LIQUID		<5.0000E-09			5.00E-09	ug/mL			
3	ICB	S1011050102		0 0			Uranium-235	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
3	ICB	S1011050102		0 0			Uranium-236	LIQUID		6.0000E-09			4.00E-09	ug/mL			
3	ICB	S1011050102		0 0			Neptunium-237	LIQUID		<1.0000E-07			1.00E-07	ug/mL			
3	ICB	S1011050102		0 0			Uranium-238	LIQUID		<5.0000E-07			5.00E-07	ug/mL			
Sample Sequence 4																	
4	BLNK-PREP	S1009170007		0 0	A		Thorium-230	LIQUID		5.2080E-06			2.80E-06	ug/mL			
4	BLNK-PREP	S1009170007		0 0	A		Thorium-232	LIQUID		<2.0000E-04			2.00E-04	ug/mL			
4	BLNK-PREP	S1009170007		0 0	A		Uranium-233	LIQUID		<4.0000E-06			4.00E-06	ug/mL			
4	BLNK-PREP	S1009170007		0 0	A		Uranium-234	LIQUID		<2.0000E-06			2.00E-06	ug/mL			
4	BLNK-PREP	S1009170007		0 0	A		Uranium-235	LIQUID		<4.0000E-06			4.00E-06	ug/mL			
4	BLNK-PREP	S1009170007		0 0	A		Uranium-236	LIQUID		<1.6000E-06			1.60E-06	ug/mL			
4	BLNK-PREP	S1009170007		0 0	A		Neptunium-237	LIQUID		<4.0000E-05			4.00E-05	ug/mL			
4	BLNK-PREP	S1009170007		0 0	A		Uranium-238	LIQUID		<2.0000E-04			2.00E-04	ug/mL			
Sample Sequence 5																	
5	SERDIL	S1011050104	S10V001772	0 0			Thorium-230	SOLID					1.38E-04	ug/g	1171.8	% Diff	
5	SERDIL	S1011050104	S10V001772	0 0			Thorium-232	SOLID					9.88E-03	ug/g	.33594	% Diff	
5	SERDIL	S1011050104	S10V001772	0 0			Uranium-233	SOLID					1.98E-04	ug/g	150.8	% Diff	

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LABCORE Completed Batch Report for Batch# 00023864

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
5	SERDIL	S1011050104	S10V001772	0 0			Uranium-234	SOLID					9.88E-05	ug/g	N/A		
5	SERDIL	S1011050104	S10V001772	0 0			Uranium-235	SOLID					1.98E-04	ug/g	11.56	% Diff	
5	SERDIL	S1011050104	S10V001772	0 0			Uranium-236	SOLID					7.90E-05	ug/g	N/A		
5	SERDIL	S1011050104	S10V001772	0 0			Neptunium-237	SOLID					1.98E-03	ug/g	N/A		
5	SERDIL	S1011050104	S10V001772	0 0			Uranium-238	SOLID					9.88E-03	ug/g	1.1331	% Diff	
Sample Sequence 7																	
7	DUP	S1009170009	S10V001772	0 0	A		Thorium-230	SOLID					2.78E-05	ug/g			
7	DUP	S1009170009	S10V001772	0 0	A		Thorium-232	SOLID					1.99E-03	ug/g	0.42558	% RPD	
7	DUP	S1009170009	S10V001772	0 0	A		Uranium-233	SOLID					3.97E-05	ug/g	49.804	% RPD	
7	DUP	S1009170009	S10V001772	0 0	A		Uranium-234	SOLID					1.99E-05	ug/g			
7	DUP	S1009170009	S10V001772	0 0	A		Uranium-235	SOLID					3.97E-05	ug/g	2.8116	% RPD	
7	DUP	S1009170009	S10V001772	0 0	A		Uranium-236	SOLID					1.59E-05	ug/g	0.99699	% RPD	
7	DUP	S1009170009	S10V001772	0 0	A		Neptunium-237	SOLID					3.97E-04	ug/g			
7	DUP	S1009170009	S10V001772	0 0	A		Uranium-238	SOLID					1.99E-03	ug/g	2.3036	% RPD	
Sample Sequence 13																	
13	CCV	S1011050106		0 0			Thorium-232	LIQUID	.001	9.9060E-04			5.00E-07	ug/mL	99.06	% Recovery	
13	CCV	S1011050106		0 0			Uranium-235	LIQUID	.0000072	7.3930E-06			1.00E-08	ug/mL	102.68	% Recovery	
13	CCV	S1011050106		0 0			Neptunium-237	LIQUID	.00115	1.0760E-03			1.00E-07	ug/mL	93.565	% Recovery	
13	CCV	S1011050106		0 0			Uranium-238	LIQUID	.0009928	9.8400E-04			5.00E-07	ug/mL	99.114	% Recovery	
Sample Sequence 14																	
14	CCB	S1011050107		0 0			Thorium-230	LIQUID		1.2000E-08			7.00E-09	ug/mL			
14	CCB	S1011050107		0 0			Thorium-232	LIQUID		<5.0000E-07			5.00E-07	ug/mL			
14	CCB	S1011050107		0 0			Uranium-233	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
14	CCB	S1011050107		0 0			Uranium-234	LIQUID		<5.0000E-09			5.00E-09	ug/mL			
14	CCB	S1011050107		0 0			Uranium-235	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
14	CCB	S1011050107		0 0			Uranium-236	LIQUID		<4.0000E-09			4.00E-09	ug/mL			
14	CCB	S1011050107		0 0			Neptunium-237	LIQUID		<1.0000E-07			1.00E-07	ug/mL			
14	CCB	S1011050107		0 0			Uranium-238	LIQUID		<5.0000E-07			5.00E-07	ug/mL			
Sample Sequence 21																	
22	STD-PREP	S1009170008		0 1	A		Thorium-232	LIQUID	.02	2.0880E-02			1.00E-05	ug/mL	104.4	% Recovery	
22	STD-PREP	S1009170008		0 1	A		Uranium-235	LIQUID	.000144	1.3650E-04			2.00E-07	ug/mL	94.792	% Recovery	
21	STD-PREP	S1009170008		0 0	A		Neptunium-237	LIQUID	.0175	1.7800E-02			2.00E-06	ug/mL	101.71	% Recovery	
22	STD-PREP	S1009170008		0 1	A		Uranium-238	LIQUID	.019856	2.0720E-02			1.00E-05	ug/mL	104.35	% Recovery	
Sample Sequence 23																	
23	SPK-POST	S1011050105	S10V001772	0 0			Thorium-232	SOLID					5.00E-07	ug/mL	100.18	% Recovery	
23	SPK-POST	S1011050105	S10V001772	0 0			Uranium-235	SOLID					1.00E-08	ug/mL	102.25	% Recovery	
23	SPK-POST	S1011050105	S10V001772	0 0			Neptunium-237	SOLID					1.00E-07	ug/mL	101.07	% Recovery	
23	SPK-POST	S1011050105	S10V001772	0 0			Uranium-238	SOLID					5.00E-07	ug/mL	100.06	% Recovery	
Sample Sequence 24																	
24	CCV	S1011050108		0 0			Thorium-232	LIQUID	.001	9.8070E-04			5.00E-07	ug/mL	98.07	% Recovery	
24	CCV	S1011050108		0 0			Uranium-235	LIQUID	.0000072	7.1180E-06			1.00E-08	ug/mL	98.861	% Recovery	
24	CCV	S1011050108		0 0			Neptunium-237	LIQUID	.00115	1.0650E-03			1.00E-07	ug/mL	92.609	% Recovery	
24	CCV	S1011050108		0 0			Uranium-238	LIQUID	.0009928	9.7160E-04			5.00E-07	ug/mL	97.865	% Recovery	

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LABCORE Completed Batch Report for Batch# 00023864

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 25																	
25	CCB	S1011050109		0 0			Thorium-230	LIQUID		<7.0000E-09			7.00E-09	ug/mL			
25	CCB	S1011050109		0 0			Thorium-232	LIQUID		<5.0000E-07			5.00E-07	ug/mL			
25	CCB	S1011050109		0 0			Uranium-233	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
25	CCB	S1011050109		0 0			Uranium-234	LIQUID		<5.0000E-09			5.00E-09	ug/mL			
25	CCB	S1011050109		0 0			Uranium-235	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
25	CCB	S1011050109		0 0			Uranium-236	LIQUID		4.0000E-09			4.00E-09	ug/mL			
25	CCB	S1011050109		0 0			Neptunium-237	LIQUID		<1.0000E-07			1.00E-07	ug/mL			
25	CCB	S1011050109		0 0			Uranium-238	LIQUID		<5.0000E-07			5.00E-07	ug/mL			
Sample Sequence 26																	
26	SPK-PREDIG	S1009170013	S10V001772	0 0	A		Neptunium-237	SOLID					3.94E-04	ug/g	98.022	% Recovery	
Sample Sequence 27																	
27	SPK-PREDIG	S1009170015	S10V001772	0 0	A		Thorium-232	SOLID					2.01E-03	ug/g	95.121	% Recovery	
27	SPK-PREDIG	S1009170015	S10V001772	0 0	A		Uranium-235	SOLID					4.01E-05	ug/g	100.7	% Recovery	
27	SPK-PREDIG	S1009170015	S10V001772	0 0	A		Uranium-238	SOLID					2.01E-03	ug/g	105.7	% Recovery	
Sample Sequence 28																	
28	SAMPLE	S10V000630		0 3	A		Thorium-230	SOLID	N/A	4.9168E-05			2.93E-05	ug/g			J
28	SAMPLE	S10V000630		0 3	A		Thorium-232	SOLID	N/A	2.3508E+00			2.09E-03	ug/g			
28	SAMPLE	S10V000630		0 3	A		Uranium-233	SOLID	N/A	1.1482E-04			4.18E-05	ug/g			J
28	SAMPLE	S10V000630		0 3	A		Uranium-234	SOLID	N/A	<2.0896E-05			2.09E-05	ug/g			U
28	SAMPLE	S10V000630		0 3	A		Uranium-235	SOLID	N/A	3.0832E-03			4.18E-05	ug/g			
28	SAMPLE	S10V000630		0 3	A		Uranium-236	SOLID	N/A	<1.6717E-05			1.67E-05	ug/g			U
28	SAMPLE	S10V000630		0 3	A		Neptunium-237	SOLID	N/A	<4.1792E-04			4.18E-04	ug/g			U
28	SAMPLE	S10V000630		0 3	A		Uranium-238	SOLID	N/A	4.4435E-01			2.09E-03	ug/g			
Sample Sequence 29																	
29	CCV	S1011050119		0 0			Thorium-232	LIQUID	.001	9.8490E-04			5.00E-07	ug/mL	98.49	% Recovery	
29	CCV	S1011050119		0 0			Uranium-235	LIQUID	.0000072	7.2830E-06			1.00E-08	ug/mL	101.15	% Recovery	
29	CCV	S1011050119		0 0			Neptunium-237	LIQUID	.00115	1.0690E-03			1.00E-07	ug/mL	92.957	% Recovery	
29	CCV	S1011050119		0 0			Uranium-238	LIQUID	.0009928	9.7720E-04			5.00E-07	ug/mL	98.429	% Recovery	
Sample Sequence 30																	
30	LLS	S1011050112		0 0			Thorium-232	LIQUID	.000005	5.1160E-06			5.00E-07	ug/mL	102.32	% Recovery	
30	LLS	S1011050112		0 0			Uranium-235	LIQUID	.000000036	3.5000E-08			1.00E-08	ug/mL	97.222	% Recovery	
30	LLS	S1011050112		0 0			Neptunium-237	LIQUID	.00000505	4.9920E-06			1.00E-07	ug/mL	98.851	% Recovery	
30	LLS	S1011050112		0 0			Uranium-238	LIQUID	.000004964	4.8750E-06			5.00E-07	ug/mL	98.207	% Recovery	
Sample Sequence 31																	
31	CCB	S1011050118		0 0			Thorium-230	LIQUID		<7.0000E-09			7.00E-09	ug/mL			
31	CCB	S1011050118		0 0			Thorium-232	LIQUID		<5.0000E-07			5.00E-07	ug/mL			
31	CCB	S1011050118		0 0			Uranium-233	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
31	CCB	S1011050118		0 0			Uranium-234	LIQUID		<5.0000E-09			5.00E-09	ug/mL			
31	CCB	S1011050118		0 0			Uranium-235	LIQUID		<1.0000E-08			1.00E-08	ug/mL			
31	CCB	S1011050118		0 0			Uranium-236	LIQUID		<4.0000E-09			4.00E-09	ug/mL			
31	CCB	S1011050118		0 0			Neptunium-237	LIQUID		<1.0000E-07			1.00E-07	ug/mL			
31	CCB	S1011050118		0 0			Uranium-238	LIQUID		<5.0000E-07			5.00E-07	ug/mL			

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00023864

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00023864

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00023864

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1011050101	ICV				
2	S1011050103	LLS				
3	S1011050102	ICB				
4	S1009170007	BLNK-PREP				
5	S1011050104	SERDIL	S10V001772			
7	S1009170009	DUP	S10V001772			
13	S1011050106	CCV				
14	S1011050107	CCB				
21	S1009170008	STD-PREP				
22	S1009170008	STD-PREP				
23	S1011050105	SPK-POST	S10V001772			
24	S1011050108	CCV				
25	S1011050109	CCB				
26	S1009170013	SPK-PREDIG	S10V001772			
27	S1009170015	SPK-PREDIG	S10V001772			
28	S10V000630	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
29	S1011050119	CCV				
30	S1011050112	LLS				
31	S1011050118	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019814

Analyst: Shaw, Levi **Book#:**

Instrument: ICP/MS PQ-EXCELL

Method: MS FISSION PRODUCTS, LA-506-102 Rev/Mod F-1

Specification: C Farm WMC 2010-1

Prep Batch: 00019092

Batch Comment: ICP-MS Fission Products for C-Farm WMC 2010-1.lnd

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
2	ICV	S1006020064		0 1			Technetium-99	LIQUID	.001	9.6470E-04			3.00E-07	ug/mL	96.47	% Recovery	
1	ICV	S1006020064		0 0			Tin-117	LIQUID	.001	1.0370E-03			1.10E-05	ug/mL	103.7	% Recovery	
Sample Sequence 3																	
4	LLS	S1006020066		0 1			Technetium-99	LIQUID	.000002	1.8640E-06			3.00E-07	ug/mL	93.2	% Recovery	
3	LLS	S1006020066		0 0			Tin-117	LIQUID	.000016	1.4230E-05			1.10E-05	ug/mL	88.938	% Recovery	
Sample Sequence 5																	
5	ICB	S1006020065		0 0			Technetium-99	LIQUID		<3.0000E-07			3.00E-07	ug/mL			
5	ICB	S1006020065		0 0			Tin-117	LIQUID		<1.1000E-05			1.10E-05	ug/mL			
5	ICB	S1006020065		0 0			Tin-126	LIQUID		<2.0000E-07			2.00E-07	ug/mL			
Sample Sequence 6																	
6	BLNK-PREP	S1004270091		0 0	A		Technetium-99	LIQUID		<3.0000E-05			3.00E-05	ug/mL			
Sample Sequence 7																	
7	SERDIL	S1006020067	S10V000422	0 0			Technetium-99	SOLID		<1.7609E-03			1.76E-03	ug/g	N/A		
Sample Sequence 8																	
8	SAMPLE	S10V000422		0 0	A		Technetium-99	SOLID	N/A	<3.5218E-04			3.52E-04	ug/g			U
Sample Sequence 9																	
9	DUP	S1004270093	S10V000422	0 0	A		Technetium-99	SOLID	<3.5218E-04	<3.4331E-04			3.43E-04	ug/g			
Sample Sequence 10																	
11	CCV	S1006020069		0 1			Technetium-99	LIQUID	.001	9.6590E-04			3.00E-07	ug/mL	96.59	% Recovery	
10	CCV	S1006020069		0 0			Tin-117	LIQUID	.001	1.0430E-03			1.10E-05	ug/mL	104.3	% Recovery	
Sample Sequence 12																	
12	CCB	S1006020070		0 0			Technetium-99	LIQUID		<3.0000E-07			3.00E-07	ug/mL			
12	CCB	S1006020070		0 0			Tin-117	LIQUID		<1.1000E-05			1.10E-05	ug/mL			
12	CCB	S1006020070		0 0			Tin-126	LIQUID		<2.0000E-07			2.00E-07	ug/mL			
Sample Sequence 13																	
13	SAMPLE	S10V000624		0 0	A		Technetium-99	SOLID	N/A	<3.2753E-04			3.28E-04	ug/g			U
Sample Sequence 14																	
14	SAMPLE	S09V001620		0 0	A		Technetium-99	SOLID	N/A	<3.0815E-04			3.08E-04	ug/g			U
Sample Sequence 15																	
15	SAMPLE	S09V001632		0 0	A		Technetium-99	SOLID	N/A	<3.3094E-04			3.31E-04	ug/g			U
Sample Sequence 16																	
16	SAMPLE	S09V001647		0 0	A		Technetium-99	SOLID	N/A	<3.0791E-04			3.08E-04	ug/g			U
Sample Sequence 17																	

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019814

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
17	SAMPLE	S10V000090		0 0	A		Technetium-99	SOLID	N/A	<3.0934E-04			3.09E-04	ug/g			U
17	SAMPLE	S10V000090		0 0	A		Tin-117	SOLID	N/A	<1.1342E-02			0.011342	ug/g			U
17	SAMPLE	S10V000090		0 0	A		Tin-126	SOLID	N/A	<2.0622E-04			2.06E-04	ug/g			U
Sample Sequence 18																	
18	SAMPLE	S10V000632		0 0	A		Technetium-99	SOLID	N/A	<3.1627E-04			3.16E-04	ug/g			U
Sample Sequence 19																	
19	SAMPLE	S10V000641		0 0	A		Technetium-99	SOLID	N/A	<3.0684E-04			3.07E-04	ug/g			U
Sample Sequence 20																	
20	SAMPLE	S10V000659		0 0	A		Technetium-99	SOLID	N/A	<3.1457E-04			3.15E-04	ug/g			U
Sample Sequence 21																	
21	SPK-POST	S1006020068	S10V000422	0 0			Technetium-99	SOLID	.1	9.9980E-02			3.00E-07	ug/mL	99.98	% Recovery	
22	SPK-POST	S1006020068	S10V000422	0 1			Tin-117	SOLID	.1	1.0290E-01			1.10E-05	ug/mL	102.9	% Recovery	
Sample Sequence 23																	
24	CCV	S1006020071		0 1			Technetium-99	LIQUID	.001	9.6520E-04			3.00E-07	ug/mL	96.52	% Recovery	
23	CCV	S1006020071		0 0			Tin-117	LIQUID	.001	1.0410E-03			1.10E-05	ug/mL	104.1	% Recovery	
Sample Sequence 25																	
25	CCB	S1006020072		0 0			Technetium-99	LIQUID		<3.0000E-07			3.00E-07	ug/mL			
25	CCB	S1006020072		0 0			Tin-117	LIQUID		<1.1000E-05			1.10E-05	ug/mL			
25	CCB	S1006020072		0 0			Tin-126	LIQUID		<2.0000E-07			2.00E-07	ug/mL			
Sample Sequence 26																	
26	SPK-PREDIG	S1004270094	S10V000422	0 0	A		Technetium-99	SOLID	.005592966	5.6366E-03			3.36E-04	ug/g	100.78	% Recovery	
Sample Sequence 28																	
28	STD-PREP	S1004270095		0 0	A		Technetium-99	LIQUID	.0005	5.1920E-04			3.00E-07	ug/mL	103.84	% Recovery	
Sample Sequence 30																	
31	CCV	S1006100073		0 1			Technetium-99	LIQUID	.001	9.5700E-04			3.00E-07	ug/mL	95.7	% Recovery	
30	CCV	S1006100073		0 0			Tin-117	LIQUID	.001	1.0420E-03			1.10E-05	ug/mL	104.2	% Recovery	
Sample Sequence 32																	
33	LLS	S1006020073		0 1			Technetium-99	LIQUID	.000002	1.8390E-06			3.00E-07	ug/mL	91.95	% Recovery	
32	LLS	S1006020073		0 0			Tin-117	LIQUID	.000016	1.3400E-05			1.10E-05	ug/mL	83.75	% Recovery	
Sample Sequence 34																	
34	CCB	S1006100074		0 0			Technetium-99	LIQUID		<3.0000E-07			3.00E-07	ug/mL			
34	CCB	S1006100074		0 0			Tin-117	LIQUID		<1.1000E-05			1.10E-05	ug/mL			
34	CCB	S1006100074		0 0			Tin-126	LIQUID		<2.0000E-07			2.00E-07	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019814

Final Page for Batch# 00019814

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019814

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006020064	ICV				
2	S1006020064	ICV				
3	S1006020066	LLS				
4	S1006020066	LLS				
5	S1006020065	ICB				
6	S1004270091	BLNK-PREP				
7	S1006020067	SERDIL	S10V000422			
8	S10V000422	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
9	S1004270093	DUP	S10V000422			
10	S1006020069	CCV				
11	S1006020069	CCV				
12	S1006020070	CCB				
13	S10V000624	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
14	S09V001620	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
15	S09V001632	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
16	S09V001647	SAMPLE		20090877	B236P2	C Farm WMC 2010-1
17	S10V000090	SAMPLE		20090877	B238K3	C Farm WMC 2010-1
18	S10V000632	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
19	S10V000641	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
20	S10V000659	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
21	S1006020068	SPK-POST	S10V000422			
22	S1006020068	SPK-POST	S10V000422			
23	S1006020071	CCV				
24	S1006020071	CCV				
25	S1006020072	CCB				
26	S1004270094	SPK-PREDIG	S10V000422			
27	S1004270096	SPK-PREDIG	S10V000422			
28	S1004270095	STD-PREP				
29	S1004270095	STD-PREP				
30	S1006100073	CCV				
31	S1006100073	CCV				
32	S1006020073	LLS				
33	S1006020073	LLS				
34	S1006100074	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020169

Analyst: Thorndike, Kathy

Book#:

Instrument: ICP/MS PQ-EXCELL

Method: MS FISSION PRODUCTS, LA-506-102 Rev/Mod F-1

Specification: C Farm WMC 2010-1

Prep Batch: 00020085

Batch Comment: C-Farm ICPMS Tin redigest trm

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1006180095		0 0			Tin-117	LIQUID	.001	1.0710E-03			1.10E-05	ug/mL	107.1	% Recovery	
Sample Sequence 2																	
2	LLS	S1006180097		0 0			Tin-117	LIQUID	.000016	1.5720E-05			1.10E-05	ug/mL	98.25	% Recovery	
Sample Sequence 3																	
3	ICB	S1006180096		0 0			Tin-117	LIQUID		<1.1000E-05			1.10E-05	ug/mL			
3	ICB	S1006180096		0 0			Tin-126	LIQUID		<2.0000E-07			2.00E-07	ug/mL			
Sample Sequence 4																	
4	BLNK-PREP	S1006150027		0 0	A		Tin-117	LIQUID		<1.1000E-03			1.10E-03	ug/mL			
4	BLNK-PREP	S1006150027		0 0	A		Tin-126	LIQUID		<2.0000E-05			2.00E-05	ug/mL			
Sample Sequence 5																	
5	SERDIL	S1006180098	S10V000422	0 0			Tin-117	SOLID		<5.4530E-02			0.05453	ug/g	N/A		
5	SERDIL	S1006180098	S10V000422	0 0			Tin-126	SOLID		<9.9145E-04			9.91E-04	ug/g	N/A		
Sample Sequence 6																	
6	SAMPLE	S10V000422		0 2	A		Tin-117	SOLID	N/A	1.7400E-02			0.010906	ug/g			Jb
6	SAMPLE	S10V000422		0 2	A		Tin-126	SOLID	N/A	2.1663E-04			1.98E-04	ug/g			Jb
Sample Sequence 7																	
7	DUP	S1006150029	S10V000422	0 0	A		Tin-117	SOLID	1.7400E-02	1.6568E-02			0.010809	ug/g	4.9003	% RPD	
7	DUP	S1006150029	S10V000422	0 0	A		Tin-126	SOLID	2.1663E-04	2.5146E-04			1.97E-04	ug/g	14.882	% RPD	
Sample Sequence 8																	
8	SAMPLE	S10V000624		0 2	A		Tin-117	SOLID	N/A	1.8142E-02			0.010182	ug/g			Jb
8	SAMPLE	S10V000624		0 2	A		Tin-126	SOLID	N/A	2.7880E-04			1.85E-04	ug/g			Jb
Sample Sequence 9																	
9	CCV	S1006180100		0 0			Tin-117	LIQUID	.001	1.0680E-03			1.10E-05	ug/mL	106.8	% Recovery	
Sample Sequence 10																	
10	CCB	S1006180101		0 0			Tin-117	LIQUID		<1.1000E-05			1.10E-05	ug/mL			
10	CCB	S1006180101		0 0			Tin-126	LIQUID		<2.0000E-07			2.00E-07	ug/mL			
Sample Sequence 11																	
11	SAMPLE	S10V000632		0 2	A		Tin-117	SOLID	N/A	1.3377E-02			0.010997	ug/g			Jb
11	SAMPLE	S10V000632		0 2	A		Tin-126	SOLID	N/A	<1.9995E-04			2.00E-04	ug/g			Ub
Sample Sequence 12																	
12	SAMPLE	S10V000641		0 2	A		Tin-117	SOLID	N/A	1.8600E-02			0.010557	ug/g			Jb
12	SAMPLE	S10V000641		0 2	A		Tin-126	SOLID	N/A	<1.9195E-04			1.92E-04	ug/g			Ub
Sample Sequence 13																	

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020169

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
13	SAMPLE	S09V001620		0 3	A		Tin-117	SOLID	N/A	2.1408E-02			0.010342	ug/g			Jb
13	SAMPLE	S09V001620		0 3	A		Tin-126	SOLID	N/A	2.0665E-04			1.88E-04	ug/g			Jb
Sample Sequence 14																	
14	SAMPLE	S09V001632		0 2	A		Tin-117	SOLID	N/A	1.8908E-02			0.01101	ug/g			Jb
14	SAMPLE	S09V001632		0 2	A		Tin-126	SOLID	N/A	<2.0019E-04			2.00E-04	ug/g			Ub
Sample Sequence 15																	
15	SAMPLE	S09V001647		0 2	A		Tin-117	SOLID	N/A	1.5539E-02			0.010525	ug/g			Jb
15	SAMPLE	S09V001647		0 2	A		Tin-126	SOLID	N/A	<1.9137E-04			1.91E-04	ug/g			Ub
Sample Sequence 16																	
16	SAMPLE	S10V000659		0 2	A		Tin-117	SOLID	N/A	1.3241E-02			0.01033	ug/g			Jb
16	SAMPLE	S10V000659		0 2	A		Tin-126	SOLID	N/A	7.2534E-04			1.88E-04	ug/g			Jb
Sample Sequence 17																	
17	SPK-POST	S1006180099	S10V000422	0 0			Tin-117	SOLID	.1	1.0560E-01			1.10E-05	ug/mL	103.84	% Recovery	
Sample Sequence 18																	
18	SPK-PREDIG	S1006150031	S10V000422	0 0	A		Tin-117	SOLID	.6141085412	3.7734E-01			4.39E-03	ug/g	58.611	% Recovery	
Sample Sequence 19																	
19	STD-PREP	S1006150028		0 0	A		Tin-117	LIQUID	.00616	6.7100E-03			5.50E-05	ug/mL	108.93	% Recovery	
Sample Sequence 20																	
20	CCV	S1006180102		0 0			Tin-117	LIQUID	.001	1.0660E-03			1.10E-05	ug/mL	106.6	% Recovery	
Sample Sequence 21																	
21	LLS	S1006180104		0 0			Tin-117	LIQUID	.000016	1.3870E-05			1.10E-05	ug/mL	86.688	% Recovery	
Sample Sequence 22																	
22	CCB	S1006180103		0 0			Tin-117	LIQUID		<1.1000E-05			1.10E-05	ug/mL			
22	CCB	S1006180103		0 0			Tin-126	LIQUID		<2.0000E-07			2.00E-07	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00020169

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020169

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006180095	ICV				
2	S1006180097	LLS				
3	S1006180096	ICB				
4	S1006150027	BLNK-PREP				
5	S1006180098	SERDIL	S10V000422			
6	S10V000422	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
7	S1006150029	DUP	S10V000422			
8	S10V000624	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
9	S1006180100	CCV				
10	S1006180101	CCB				
11	S10V000632	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
12	S10V000641	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
13	S09V001620	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
14	S09V001632	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
15	S09V001647	SAMPLE		20090877	B236P2	C Farm WMC 2010-1
16	S10V000659	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
17	S1006180099	SPK-POST	S10V000422			
18	S1006150031	SPK-PREDIG	S10V000422			
19	S1006150028	STD-PREP				
20	S1006180102	CCV				
21	S1006180104	LLS				
22	S1006180103	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020677

Analyst: Mull, Bryanna **Book#:**

Instrument: ICP/MS PQ-EXCELL

Method: MS FISSION PRODUCTS, LA-506-102 Rev/Mod F-1

Specification: C Farm WMC 2010-1

Prep Batch: 00019634

Batch Comment: ICPMS Fission Products for C-Farm WMC 2010-1. lnd

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
2	ICV	S1007150012		0 1			Technetium-99	LIQUID	.001	9.6090E-04			3.00E-07	ug/mL	96.09	% Recovery	
1	ICV	S1007150012		0 0			Tin-117	LIQUID	.001	1.0810E-03			1.10E-05	ug/mL	108.1	% Recovery	
Sample Sequence 3																	
4	LLS	S1007150014		0 1			Technetium-99	LIQUID	.000002	2.1580E-06			3.00E-07	ug/mL	107.9	% Recovery	
3	LLS	S1007150014		0 0			Tin-117	LIQUID	.000016	1.7410E-05			1.10E-05	ug/mL	108.81	% Recovery	
Sample Sequence 5																	
5	ICB	S1007150013		0 0			Technetium-99	LIQUID		<3.0000E-07			3.00E-07	ug/mL			
5	ICB	S1007150013		0 0			Tin-117	LIQUID		<1.1000E-05			1.10E-05	ug/mL			
5	ICB	S1007150013		0 0			Tin-126	LIQUID		<2.0000E-07			2.00E-07	ug/mL			
Sample Sequence 6																	
6	BLNK-PREP	S1005250081		0 0	A		Technetium-99	LIQUID		<1.5000E-04			1.50E-04	ug/mL			
6	BLNK-PREP	S1005250081		0 0	A		Tin-117	LIQUID		<5.5000E-03			5.50E-03	ug/mL			
6	BLNK-PREP	S1005250081		0 0	A		Tin-126	LIQUID		<1.0000E-04			1.00E-04	ug/mL			
Sample Sequence 7																	
7	SERDIL	S1007150015	S10V000668	0 0			Technetium-99	SOLID		<8.5730E-03			8.57E-03	ug/g	N/A		
7	SERDIL	S1007150015	S10V000668	0 0			Tin-117	SOLID		<3.1434E-01			0.31434	ug/g	N/A		
7	SERDIL	S1007150015	S10V000668	0 0			Tin-126	SOLID		<5.7153E-03			5.72E-03	ug/g	N/A		
Sample Sequence 8																	
8	SAMPLE	S10V000668		0 0	A		Technetium-99	SOLID	N/A	<1.7146E-03			1.71E-03	ug/g			U
8	SAMPLE	S10V000668		0 0	A		Tin-117	SOLID	N/A	<6.2869E-02			0.062869	ug/g			Ub
8	SAMPLE	S10V000668		0 0	A		Tin-126	SOLID	N/A	<1.1431E-03			1.14E-03	ug/g			Ub
Sample Sequence 9																	
9	DUP	S1005250083	S10V000668	0 0	A		Technetium-99	SOLID	<1.7146E-03	<1.7286E-03			1.73E-03	ug/g			
9	DUP	S1005250083	S10V000668	0 0	A		Tin-117	SOLID	<6.2869E-02	<6.3382E-02			0.063382	ug/g			
9	DUP	S1005250083	S10V000668	0 0	A		Tin-126	SOLID	<1.1431E-03	<1.1524E-03			1.15E-03	ug/g			
Sample Sequence 10																	
10	SAMPLE	S10V000677		0 0	A		Technetium-99	SOLID	N/A	1.9556E-03			1.79E-03	ug/g			J
10	SAMPLE	S10V000677		0 0	A		Tin-117	SOLID	N/A	<6.5584E-02			0.065584	ug/g			Ub
10	SAMPLE	S10V000677		0 0	A		Tin-126	SOLID	N/A	<1.1924E-03			1.19E-03	ug/g			Ub
Sample Sequence 11																	
12	CCV	S1007150017		0 1			Technetium-99	LIQUID	.001	9.6680E-04			3.00E-07	ug/mL	96.68	% Recovery	
11	CCV	S1007150017		0 0			Tin-117	LIQUID	.001	1.0760E-03			1.10E-05	ug/mL	107.6	% Recovery	

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* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020677

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 13																	
13	CCB	S1007150018		0 0			Technetium-99	LIQUID		<3.0000E-07			3.00E-07	ug/mL			
13	CCB	S1007150018		0 0			Tin-117	LIQUID		<1.1000E-05			1.10E-05	ug/mL			
13	CCB	S1007150018		0 0			Tin-126	LIQUID		<2.0000E-07			2.00E-07	ug/mL			
Sample Sequence 14																	
14	SAMPLE	S10V000686		0 0	A		Technetium-99	SOLID	N/A	1.7619E-03			1.71E-03	ug/g			J
14	SAMPLE	S10V000686		0 0	A		Tin-117	SOLID	N/A	<6.2843E-02			0.062843	ug/g			Ub
14	SAMPLE	S10V000686		0 0	A		Tin-126	SOLID	N/A	<1.1426E-03			1.14E-03	ug/g			Ub
Sample Sequence 15																	
15	SAMPLE	S10V000695		0 0	A		Technetium-99	SOLID	N/A	1.6577E-03			1.60E-03	ug/g			J
15	SAMPLE	S10V000695		0 0	A		Tin-117	SOLID	N/A	<5.8746E-02			0.058746	ug/g			Ub
15	SAMPLE	S10V000695		0 0	A		Tin-126	SOLID	N/A	<1.0681E-03			1.07E-03	ug/g			Ub
Sample Sequence 16																	
16	STD-PREP	S1005250082		0 0	A		Technetium-99	LIQUID	.0005	4.9570E-04			6.00E-07	ug/mL	99.14	% Recovery	
Sample Sequence 17																	
17	STD-PREP	S1005250086		0 0	A		Tin-117	LIQUID	.00616	6.6450E-03			5.50E-05	ug/mL	107.87	% Recovery	
Sample Sequence 18																	
18	SPK-PREDIG	S1005250084	S10V000668	0 0	A		Technetium-99	SOLID	.0052236775	5.2885E-03			6.27E-04	ug/g	101.24	% Recovery	
Sample Sequence 19																	
19	SPK-PREDIG	S1005250085	S10V000668	0 0	A		Tin-117	SOLID	.326264246	1.7267E-01			0.023305	ug/g	52.922	% Recovery	
Sample Sequence 20																	
20	SPK-POST	S1007150016	S10V000668	0 0			Technetium-99	SOLID	.5	4.8590E-01			3.00E-07	ug/mL	97.18	% Recovery	
21	SPK-POST	S1007150016	S10V000668	0 1			Tin-117	SOLID	.5	5.3220E-01			1.10E-05	ug/mL	106.44	% Recovery	
Sample Sequence 22																	
23	CCV	S1007150019		0 1			Technetium-99	LIQUID	.001	9.7220E-04			3.00E-07	ug/mL	97.22	% Recovery	
22	CCV	S1007150019		0 0			Tin-117	LIQUID	.001	1.0760E-03			1.10E-05	ug/mL	107.6	% Recovery	
Sample Sequence 24																	
25	LLS	S1007150021		0 1			Technetium-99	LIQUID	.000002	2.3990E-06			3.00E-07	ug/mL	119.95	% Recovery	
24	LLS	S1007150021		0 0			Tin-117	LIQUID	.000016	1.7020E-05			1.10E-05	ug/mL	106.38	% Recovery	
Sample Sequence 26																	
26	CCB	S1007150020		0 0			Technetium-99	LIQUID		<3.0000E-07			3.00E-07	ug/mL			
26	CCB	S1007150020		0 0			Tin-117	LIQUID		<1.1000E-05			1.10E-05	ug/mL			
26	CCB	S1007150020		0 0			Tin-126	LIQUID		<2.0000E-07			2.00E-07	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

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LABCORE Completed Batch Report for Batch# 00020677

Final Page for Batch# 00020677

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00020677

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1007150012	ICV				
2	S1007150012	ICV				
3	S1007150014	LLS				
4	S1007150014	LLS				
5	S1007150013	ICB				
6	S1005250081	BLNK-PREP				
7	S1007150015	SERDIL	S10V000668			
8	S10V000668	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
9	S1005250083	DUP	S10V000668			
10	S10V000677	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
11	S1007150017	CCV				
12	S1007150017	CCV				
13	S1007150018	CCB				
14	S10V000686	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
15	S10V000695	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
16	S1005250082	STD-PREP				
17	S1005250086	STD-PREP				
18	S1005250084	SPK-PREDIG	S10V000668			
19	S1005250085	SPK-PREDIG	S10V000668			
20	S1007150016	SPK-POST	S10V000668			
21	S1007150016	SPK-POST	S10V000668			
22	S1007150019	CCV				
23	S1007150019	CCV				
24	S1007150021	LLS				
25	S1007150021	LLS				
26	S1007150020	CCB				

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LABCORE Completed Batch Report for Batch# 00019915

Analyst: Shaw, Levi **Book#:**

Instrument: ICP/MS AGILENT

Method: MS PERIODIC TABLE, LA-506-103 Rev/Mod A-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019100

Batch Comment: ICP-MS determination of per tab analytes for C Farm soild digestates. bsm

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
2	ICV	S1006070111		0 1			Silver	LIQUID	.0004	4.1910E-04			8.00E-06	ug/mL	104.78	% Recovery	
2	ICV	S1006070111		0 1			Arsenic	LIQUID	.002	1.9190E-03			4.20E-05	ug/mL	95.95	% Recovery	
2	ICV	S1006070111		0 1			Cobalt	LIQUID	.002	2.1160E-03			2.00E-05	ug/mL	105.8	% Recovery	
2	ICV	S1006070111		0 1			Cadmium	LIQUID	.002	2.1520E-03			3.00E-06	ug/mL	107.6	% Recovery	
2	ICV	S1006070111		0 1			Chromium	LIQUID	.002	2.0170E-03			1.40E-04	ug/mL	100.85	% Recovery	
2	ICV	S1006070111		0 1			Lead	LIQUID	.002	2.2310E-03			3.10E-05	ug/mL	111.55	% Recovery	
1	ICV	S1006070111		0 0			Antimony	LIQUID	.002	1.9340E-03			4.40E-05	ug/mL	96.7	% Recovery	
2	ICV	S1006070111		0 1			Selenium	LIQUID	.002	2.0460E-03			6.10E-05	ug/mL	102.3	% Recovery	
1	ICV	S1006070111		0 0			Thallium	LIQUID	.002	1.9530E-03			3.00E-06	ug/mL	97.65	% Recovery	
2	ICV	S1006070111		0 1			Vanadium	LIQUID	.002	1.9900E-03			2.40E-05	ug/mL	99.5	% Recovery	
2	ICV	S1006070111		0 1			Nickel	LIQUID	.002	2.1270E-03			1.20E-05	ug/mL	106.35	% Recovery	
Sample Sequence 3																	
4	LLS	S1006070113		0 1			Silver	LIQUID	.00001	8.5310E-06			8.00E-06	ug/mL	85.31	% Recovery	
5	LLS	S1006070113		0 2			Arsenic	LIQUID	.0002	2.0750E-04			4.20E-05	ug/mL	103.75	% Recovery	
4	LLS	S1006070113		0 1			Cobalt	LIQUID	.00005	4.9040E-05			2.00E-05	ug/mL	98.08	% Recovery	
3	LLS	S1006070113		0 0			Cadmium	LIQUID	.00001	1.0890E-05			3.00E-06	ug/mL	108.9	% Recovery	
5	LLS	S1006070113		0 2			Chromium	LIQUID	.0002	1.9860E-04			1.40E-04	ug/mL	99.3	% Recovery	
4	LLS	S1006070113		0 1			Lead	LIQUID	.00005	4.5420E-05			3.10E-05	ug/mL	90.84	% Recovery	
7	LLS	S1006070113		0 4			Antimony	LIQUID	.0001	9.7950E-05			4.40E-05	ug/mL	97.95	% Recovery	
5	LLS	S1006070113		0 2			Selenium	LIQUID	.0002	1.8160E-04			6.10E-05	ug/mL	90.8	% Recovery	
6	LLS	S1006070113		0 3			Thallium	LIQUID	.00001	1.1330E-05			3.00E-06	ug/mL	113.3	% Recovery	
5	LLS	S1006070113		0 2			Vanadium	LIQUID	.0002	2.0320E-04			2.40E-05	ug/mL	101.6	% Recovery	
4	LLS	S1006070113		0 1			Nickel	LIQUID	.00005	4.8110E-05			1.20E-05	ug/mL	96.22	% Recovery	
Sample Sequence 8																	
8	ICB	S1006070112		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
8	ICB	S1006070112		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
8	ICB	S1006070112		0 0			Cobalt	LIQUID		<2.0000E-05			2.00E-05	ug/mL			
8	ICB	S1006070112		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
8	ICB	S1006070112		0 0			Chromium	LIQUID		<1.4000E-04			1.40E-04	ug/mL			
8	ICB	S1006070112		0 0			Lead	LIQUID		<3.1000E-05			3.10E-05	ug/mL			
8	ICB	S1006070112		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019915

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
8	ICB	S1006070112		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
8	ICB	S1006070112		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
8	ICB	S1006070112		0 0			Vanadium	LIQUID		<2.4000E-05			2.40E-05	ug/mL			
8	ICB	S1006070112		0 0			Nickel	LIQUID		<1.2000E-05			1.20E-05	ug/mL			
Sample Sequence 9																	
9	SERDIL	S1006070114	S10V000420	0 0			Silver	SOLID		<4.3768E-01			0.43768	ug/g	N/A		
9	SERDIL	S1006070114	S10V000420	0 0			Arsenic	SOLID		3.9095E+00			2.2978	ug/g	.057138	% Diff	
9	SERDIL	S1006070114	S10V000420	0 0			Cadmium	SOLID		<1.6413E-01			0.16413	ug/g	N/A		
9	SERDIL	S1006070114	S10V000420	0 0			Lead	SOLID		6.0563E+00			1.696	ug/g	1.9139	% Diff	
9	SERDIL	S1006070114	S10V000420	0 0			Selenium	SOLID		<3.3373E+00			3.3373	ug/g	N/A		
Sample Sequence 10																	
10	SAMPLE	S10V000420		0 0	A		Silver	SOLID	N/A	<8.7535E-02			0.087535	ug/g			U
10	SAMPLE	S10V000420		0 0	A		Arsenic	SOLID	N/A	3.9073E+00			0.45956	ug/g			
10	SAMPLE	S10V000420		0 0	A		Cadmium	SOLID	N/A	1.0118E-01			0.032826	ug/g			
10	SAMPLE	S10V000420		0 0	A		Selenium	SOLID	N/A	<6.6745E-01			0.66745	ug/g			U
Sample Sequence 11																	
11	DUP	S1004280003	S10V000420	0 0	A		Silver	SOLID	<8.7535E-02	1.2078E-01			0.082727	ug/g			
11	DUP	S1004280003	S10V000420	0 0	A		Arsenic	SOLID	3.9073E+00	3.9409E+00			0.43432	ug/g	0.85512	% RPD	
11	DUP	S1004280003	S10V000420	0 0	A		Cadmium	SOLID	1.0118E-01	8.6181E-02			0.031023	ug/g	16.010	% RPD	
11	DUP	S1004280003	S10V000420	0 0	A		Lead	SOLID		6.5809E+00			0.32057	ug/g			
11	DUP	S1004280003	S10V000420	0 0	A		Selenium	SOLID	<6.6745E-01	<6.3079E-01			0.63079	ug/g			
Sample Sequence 12																	
12	SAMPLE	S10V000088		0 0	A		Silver	SOLID	N/A	8.2688E-02			0.082379	ug/g			J
12	SAMPLE	S10V000088		0 0	A		Arsenic	SOLID	N/A	1.8793E+00			0.43249	ug/g			
12	SAMPLE	S10V000088		0 0	A		Cadmium	SOLID	N/A	6.7880E-02			0.030892	ug/g			
12	SAMPLE	S10V000088		0 0	A		Selenium	SOLID	N/A	<6.2814E-01			0.62814	ug/g			U
Sample Sequence 13																	
13	SPK-POST	S1006070115	S10V000420	0 0			Silver	SOLID	.2	2.1140E-01			8.00E-06	ug/mL	105.7	% Recovery	
13	SPK-POST	S1006070115	S10V000420	0 0			Arsenic	SOLID	1	1.2860E+00			4.20E-05	ug/mL	92.89	% Recovery	
13	SPK-POST	S1006070115	S10V000420	0 0			Cadmium	SOLID	1	1.0490E+00			3.00E-06	ug/mL	103.98	% Recovery	
13	SPK-POST	S1006070115	S10V000420	0 0			Lead	SOLID	1	1.5680E+00			3.10E-05	ug/mL	100.37	% Recovery	
13	SPK-POST	S1006070115	S10V000420	0 0			Selenium	SOLID	1	8.9490E-01			6.10E-05	ug/mL	89.49	% Recovery	
Sample Sequence 15																	
15	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Silver	SOLID	11.882694	1.2833E+01			0.47531	ug/g	108	% Recovery	
15	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Arsenic	SOLID	59.41347	6.0721E+01			2.4954	ug/g	95.624	% Recovery	
15	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Cadmium	SOLID	59.41347	6.5711E+01			0.17824	ug/g	110.43	% Recovery	
15	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Lead	SOLID	59.41347	6.9336E+01			1.8418	ug/g	106.31	% Recovery	
15	SPK-PREDIG	S1004280004	S10V000420	0 0	A		Selenium	SOLID	59.41347	5.9948E+01			3.6242	ug/g	100.9	% Recovery	
Sample Sequence 17																	
17	CCV	S1006070116		0 0			Silver	LIQUID	.0004	4.0680E-04			8.00E-06	ug/mL	101.7	% Recovery	
17	CCV	S1006070116		0 0			Arsenic	LIQUID	.002	1.9940E-03			4.20E-05	ug/mL	99.7	% Recovery	
17	CCV	S1006070116		0 0			Cobalt	LIQUID	.002	2.0270E-03			2.00E-05	ug/mL	101.35	% Recovery	
17	CCV	S1006070116		0 0			Cadmium	LIQUID	.002	2.0800E-03			3.00E-06	ug/mL	104	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019915

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
17	CCV	S1006070116		0 0			Chromium	LIQUID	.002	1.9170E-03			1.40E-04	ug/mL	95.85	% Recovery	
17	CCV	S1006070116		0 0			Lead	LIQUID	.002	2.0920E-03			3.10E-05	ug/mL	104.6	% Recovery	
18	CCV	S1006070116		0 1			Antimony	LIQUID	.002	2.2140E-03			4.40E-05	ug/mL	110.7	% Recovery	
17	CCV	S1006070116		0 0			Selenium	LIQUID	.002	2.0330E-03			6.10E-05	ug/mL	101.65	% Recovery	
18	CCV	S1006070116		0 1			Thallium	LIQUID	.002	2.1380E-03			3.00E-06	ug/mL	106.9	% Recovery	
17	CCV	S1006070116		0 0			Vanadium	LIQUID	.002	1.9670E-03			2.40E-05	ug/mL	98.35	% Recovery	
17	CCV	S1006070116		0 0			Nickel	LIQUID	.002	2.0580E-03			1.20E-05	ug/mL	102.9	% Recovery	
Sample Sequence 19																	
19	CCB	S1006070117		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
19	CCB	S1006070117		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
19	CCB	S1006070117		0 0			Cobalt	LIQUID		<2.0000E-05			2.00E-05	ug/mL			
19	CCB	S1006070117		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
19	CCB	S1006070117		0 0			Chromium	LIQUID		<1.4000E-04			1.40E-04	ug/mL			
19	CCB	S1006070117		0 0			Lead	LIQUID		<3.1000E-05			3.10E-05	ug/mL			
19	CCB	S1006070117		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
19	CCB	S1006070117		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
19	CCB	S1006070117		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
19	CCB	S1006070117		0 0			Vanadium	LIQUID		<2.4000E-05			2.40E-05	ug/mL			
19	CCB	S1006070117		0 0			Nickel	LIQUID		<1.2000E-05			1.20E-05	ug/mL			
Sample Sequence 20																	
20	BLNK-PREP	S1004280001		0 0	A		Silver	LIQUID		<8.0000E-03			8.00E-03	ug/mL			
20	BLNK-PREP	S1004280001		0 0	A		Arsenic	LIQUID		<4.2000E-02			0.042	ug/mL			
20	BLNK-PREP	S1004280001		0 0	A		Cadmium	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
20	BLNK-PREP	S1004280001		0 0	A		Lead	LIQUID		<3.1000E-02			0.031	ug/mL			
20	BLNK-PREP	S1004280001		0 0	A		Selenium	LIQUID		<6.1000E-02			0.061	ug/mL			
Sample Sequence 21																	
21	SAMPLE	S09V001618		0 0	A		Silver	SOLID	N/A	<8.4164E-02			0.084164	ug/g			U
21	SAMPLE	S09V001618		0 0	A		Arsenic	SOLID	N/A	3.4234E+00			0.44186	ug/g			
21	SAMPLE	S09V001618		0 0	A		Cadmium	SOLID	N/A	9.0182E-02			0.031562	ug/g			
21	SAMPLE	S09V001618		0 0	A		Selenium	SOLID	N/A	<6.4175E-01			0.64175	ug/g			U
Sample Sequence 22																	
22	SAMPLE	S09V001630		0 0	A		Silver	SOLID	N/A	<8.4672E-02			0.084672	ug/g			U
22	SAMPLE	S09V001630		0 0	A		Arsenic	SOLID	N/A	3.2863E+00			0.44453	ug/g			
22	SAMPLE	S09V001630		0 0	A		Cadmium	SOLID	N/A	7.6988E-02			0.031752	ug/g			
22	SAMPLE	S09V001630		0 0	A		Selenium	SOLID	N/A	<6.4563E-01			0.64563	ug/g			U
Sample Sequence 23																	
23	SAMPLE	S09V001645		0 0	A		Silver	SOLID	N/A	<8.5605E-02			0.085605	ug/g			U
23	SAMPLE	S09V001645		0 0	A		Arsenic	SOLID	N/A	4.3027E+00			0.44943	ug/g			
23	SAMPLE	S09V001645		0 0	A		Cadmium	SOLID	N/A	1.1589E-01			0.032102	ug/g			
23	SAMPLE	S09V001645		0 0	A		Selenium	SOLID	N/A	<6.5274E-01			0.65274	ug/g			U
Sample Sequence 24																	
24	CCV	S1006070118		0 0			Silver	LIQUID	.0004	4.0020E-04			8.00E-06	ug/mL	100.05	% Recovery	
24	CCV	S1006070118		0 0			Arsenic	LIQUID	.002	1.9190E-03			4.20E-05	ug/mL	95.95	% Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019915

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
24	CCV	S1006070118		0 0			Cobalt	LIQUID	.002	2.0030E-03			2.00E-05	ug/mL	100.15	% Recovery	
24	CCV	S1006070118		0 0			Cadmium	LIQUID	.002	2.0160E-03			3.00E-06	ug/mL	100.8	% Recovery	
24	CCV	S1006070118		0 0			Chromium	LIQUID	.002	1.9880E-03			1.40E-04	ug/mL	99.4	% Recovery	
24	CCV	S1006070118		0 0			Lead	LIQUID	.002	2.0430E-03			3.10E-05	ug/mL	102.15	% Recovery	
25	CCV	S1006070118		0 1			Antimony	LIQUID	.002	1.9060E-03			4.40E-05	ug/mL	95.3	% Recovery	
24	CCV	S1006070118		0 0			Selenium	LIQUID	.002	1.8960E-03			6.10E-05	ug/mL	94.8	% Recovery	
25	CCV	S1006070118		0 1			Thallium	LIQUID	.002	1.8650E-03			3.00E-06	ug/mL	93.25	% Recovery	
24	CCV	S1006070118		0 0			Vanadium	LIQUID	.002	1.9640E-03			2.40E-05	ug/mL	98.2	% Recovery	
24	CCV	S1006070118		0 0			Nickel	LIQUID	.002	1.9860E-03			1.20E-05	ug/mL	99.3	% Recovery	
Sample Sequence 26																	
27	LLS	S1006070123		0 1			Silver	LIQUID	.00001	8.9500E-06			8.00E-06	ug/mL	89.5	% Recovery	
28	LLS	S1006070123		0 2			Arsenic	LIQUID	.0002	1.9780E-04			4.20E-05	ug/mL	98.9	% Recovery	
27	LLS	S1006070123		0 1			Cobalt	LIQUID	.00005	4.9330E-05			2.00E-05	ug/mL	98.66	% Recovery	
26	LLS	S1006070123		0 0			Cadmium	LIQUID	.00001	9.8510E-06			3.00E-06	ug/mL	98.51	% Recovery	
28	LLS	S1006070123		0 2			Chromium	LIQUID	.0002	2.0170E-04			1.40E-04	ug/mL	100.85	% Recovery	
27	LLS	S1006070123		0 1			Lead	LIQUID	.00005	4.4840E-05			3.10E-05	ug/mL	89.68	% Recovery	
30	LLS	S1006070123		0 4			Antimony	LIQUID	.0001	9.8320E-05			4.40E-05	ug/mL	98.32	% Recovery	
28	LLS	S1006070123		0 2			Selenium	LIQUID	.0002	1.2760E-04			6.10E-05	ug/mL	63.8	% Recovery	
29	LLS	S1006070123		0 3			Thallium	LIQUID	.00001	8.0070E-06			3.00E-06	ug/mL	80.07	% Recovery	
28	LLS	S1006070123		0 2			Vanadium	LIQUID	.0002	1.9460E-04			2.40E-05	ug/mL	97.3	% Recovery	
27	LLS	S1006070123		0 1			Nickel	LIQUID	.00005	4.6440E-05			1.20E-05	ug/mL	92.88	% Recovery	
Sample Sequence 31																	
31	CCB	S1006070119		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
31	CCB	S1006070119		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
31	CCB	S1006070119		0 0			Cobalt	LIQUID		<2.0000E-05			2.00E-05	ug/mL			
31	CCB	S1006070119		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
31	CCB	S1006070119		0 0			Chromium	LIQUID		<1.4000E-04			1.40E-04	ug/mL			
31	CCB	S1006070119		0 0			Lead	LIQUID		<3.1000E-05			3.10E-05	ug/mL			
31	CCB	S1006070119		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
31	CCB	S1006070119		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
31	CCB	S1006070119		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
31	CCB	S1006070119		0 0			Vanadium	LIQUID		<2.4000E-05			2.40E-05	ug/mL			
31	CCB	S1006070119		0 0			Nickel	LIQUID		<1.2000E-05			1.20E-05	ug/mL			
Sample Sequence 32																	
32	ICV	S1006070122		0 0			Silver	LIQUID	.0004	3.7840E-04			8.00E-06	ug/mL	94.6	% Recovery	
32	ICV	S1006070122		0 0			Arsenic	LIQUID	.002	2.1490E-03			4.20E-05	ug/mL	107.45	% Recovery	
32	ICV	S1006070122		0 0			Cobalt	LIQUID	.002	1.8990E-03			2.00E-05	ug/mL	94.95	% Recovery	
32	ICV	S1006070122		0 0			Cadmium	LIQUID	.002	1.8900E-03			3.00E-06	ug/mL	94.5	% Recovery	
32	ICV	S1006070122		0 0			Chromium	LIQUID	.002	2.1640E-03			1.40E-04	ug/mL	108.2	% Recovery	
32	ICV	S1006070122		0 0			Lead	LIQUID	.002	2.0150E-03			3.10E-05	ug/mL	100.75	% Recovery	
33	ICV	S1006070122		0 1			Antimony	LIQUID	.002	1.9360E-03			4.40E-05	ug/mL	96.8	% Recovery	
32	ICV	S1006070122		0 0			Selenium	LIQUID	.002	1.9600E-03			6.10E-05	ug/mL	98	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019915

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
33	ICV	S1006070122		0 1			Thallium	LIQUID	.002	1.9730E-03			3.00E-06	ug/mL	98.65	% Recovery	
32	ICV	S1006070122		0 0			Vanadium	LIQUID	.002	2.0530E-03			2.40E-05	ug/mL	102.65	% Recovery	
32	ICV	S1006070122		0 0			Nickel	LIQUID	.002	1.9170E-03			1.20E-05	ug/mL	95.85	% Recovery	
Sample Sequence 34																	
35	LLS	S1006070124		0 1			Silver	LIQUID	.00001	8.5870E-06			8.00E-06	ug/mL	85.87	% Recovery	
36	LLS	S1006070124		0 2			Arsenic	LIQUID	.0002	2.1110E-04			4.20E-05	ug/mL	105.55	% Recovery	
35	LLS	S1006070124		0 1			Cobalt	LIQUID	.00005	4.7310E-05			2.00E-05	ug/mL	94.62	% Recovery	
34	LLS	S1006070124		0 0			Cadmium	LIQUID	.00001	9.4660E-06			3.00E-06	ug/mL	94.66	% Recovery	
36	LLS	S1006070124		0 2			Chromium	LIQUID	.0002	2.2020E-04			1.40E-04	ug/mL	110.1	% Recovery	
35	LLS	S1006070124		0 1			Lead	LIQUID	.00005	5.0410E-05			3.10E-05	ug/mL	100.82	% Recovery	
38	LLS	S1006070124		0 4			Antimony	LIQUID	.0001	9.5370E-05			4.40E-05	ug/mL	95.37	% Recovery	
36	LLS	S1006070124		0 2			Selenium	LIQUID	.0002	2.2390E-04			6.10E-05	ug/mL	111.95	% Recovery	
37	LLS	S1006070124		0 3			Thallium	LIQUID	.00001	8.1070E-06			3.00E-06	ug/mL	81.07	% Recovery	
36	LLS	S1006070124		0 2			Vanadium	LIQUID	.0002	2.0160E-04			2.40E-05	ug/mL	100.8	% Recovery	
35	LLS	S1006070124		0 1			Nickel	LIQUID	.00005	4.8390E-05			1.20E-05	ug/mL	96.78	% Recovery	
Sample Sequence 39																	
39	ICB	S1006070121		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
39	ICB	S1006070121		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
39	ICB	S1006070121		0 0			Cobalt	LIQUID		<2.0000E-05			2.00E-05	ug/mL			
39	ICB	S1006070121		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
39	ICB	S1006070121		0 0			Chromium	LIQUID		<1.4000E-04			1.40E-04	ug/mL			
39	ICB	S1006070121		0 0			Lead	LIQUID		<3.1000E-05			3.10E-05	ug/mL			
39	ICB	S1006070121		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
39	ICB	S1006070121		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
39	ICB	S1006070121		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
39	ICB	S1006070121		0 0			Vanadium	LIQUID		<2.4000E-05			2.40E-05	ug/mL			
39	ICB	S1006070121		0 0			Nickel	LIQUID		<1.2000E-05			1.20E-05	ug/mL			
Sample Sequence 40																	
40	SERDIL	S1006070125	S10V000578	0 0			Silver	SOLID		<4.2135E-01			0.42135	ug/g	N/A		
40	SERDIL	S1006070125	S10V000578	0 0			Arsenic	SOLID		3.9739E+00			2.2121	ug/g	12.002	% Diff	
40	SERDIL	S1006070125	S10V000578	0 0			Cadmium	SOLID		<1.5801E-01			0.15801	ug/g	N/A		
40	SERDIL	S1006070125	S10V000578	0 0			Lead	SOLID		6.1096E+00			1.6327	ug/g	2.75	% Diff	
40	SERDIL	S1006070125	S10V000578	0 0			Selenium	SOLID		<3.2128E+00			3.2128	ug/g	N/A		
Sample Sequence 41																	
41	SAMPLE	S10V000578		0 0	A		Silver	SOLID	N/A	<8.4271E-02			0.084271	ug/g			U
41	SAMPLE	S10V000578		0 0	A		Arsenic	SOLID	N/A	4.5159E+00			0.44242	ug/g			
41	SAMPLE	S10V000578		0 0	A		Cadmium	SOLID	N/A	8.9169E-02			0.031602	ug/g			
41	SAMPLE	S10V000578		0 0	A		Lead	SOLID	N/A	6.2824E+00			0.32655	ug/g			
41	SAMPLE	S10V000578		0 0	A		Selenium	SOLID	N/A	<6.4257E-01			0.64257	ug/g			U
Sample Sequence 42																	
42	SAMPLE	S10V000630		0 0	A		Silver	SOLID	N/A	<8.3584E-02			0.083584	ug/g			U
42	SAMPLE	S10V000630		0 0	A		Arsenic	SOLID	N/A	2.1972E+00			0.43882	ug/g			

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LABCORE Completed Batch Report for Batch# 00019915

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
42	SAMPLE	S10V000630		0 0	A		Cadmium	SOLID	N/A	6.1142E-02			0.031344	ug/g			
42	SAMPLE	S10V000630		0 0	A		Lead	SOLID	N/A	3.0832E+00			0.32389	ug/g			
42	SAMPLE	S10V000630		0 0	A		Selenium	SOLID	N/A	<6.3733E-01			0.63733	ug/g			U
Sample Sequence 43																	
43	SAMPLE	S10V000639		0 0	A		Silver	SOLID	N/A	<8.1648E-02			0.081648	ug/g			U
43	SAMPLE	S10V000639		0 0	A		Arsenic	SOLID	N/A	2.3606E+00			0.42865	ug/g			
43	SAMPLE	S10V000639		0 0	A		Cadmium	SOLID	N/A	7.2452E-02			0.030618	ug/g			
43	SAMPLE	S10V000639		0 0	A		Lead	SOLID	N/A	4.2722E+00			0.31638	ug/g			
43	SAMPLE	S10V000639		0 0	A		Selenium	SOLID	N/A	1.3523E+00			0.62256	ug/g			J
Sample Sequence 44																	
44	SAMPLE	S10V000657		0 0	A		Silver	SOLID	N/A	<8.6068E-02			0.086068	ug/g			U
44	SAMPLE	S10V000657		0 0	A		Arsenic	SOLID	N/A	2.5863E+00			0.45186	ug/g			
44	SAMPLE	S10V000657		0 0	A		Cadmium	SOLID	N/A	5.4578E-02			0.032275	ug/g			
44	SAMPLE	S10V000657		0 0	A		Lead	SOLID	N/A	3.5212E+00			0.33351	ug/g			
44	SAMPLE	S10V000657		0 0	A		Selenium	SOLID	N/A	<6.5627E-01			0.65627	ug/g			U
Sample Sequence 45																	
45	STD-PREP	S1004280002		0 0	A		Silver	LIQUID	1	9.7100E-01			0.04	ug/mL	97.1	% Recovery	
45	STD-PREP	S1004280002		0 0	A		Arsenic	LIQUID	5	5.6150E+00			0.21	ug/mL	112.3	% Recovery	
45	STD-PREP	S1004280002		0 0	A		Cadmium	LIQUID	5	4.9065E+00			0.015	ug/mL	98.13	% Recovery	
45	STD-PREP	S1004280002		0 0	A		Lead	LIQUID	5	5.0650E+00			0.155	ug/mL	101.3	% Recovery	
45	STD-PREP	S1004280002		0 0	A		Selenium	LIQUID	5	5.3600E+00			0.305	ug/mL	107.2	% Recovery	
Sample Sequence 47																	
47	SPK-POST	S1006070126	S10V000578	0 0			Silver	SOLID	.2	1.9800E-01			8.00E-06	ug/mL	99	% Recovery	
48	SPK-POST	S1006070126	S10V000578	0 1			Antimony	SOLID	1	9.9290E-01			4.40E-05	ug/mL	99.29	% Recovery	
47	SPK-POST	S1006070126	S10V000578	0 0			Selenium	SOLID	1	8.8610E-01			6.10E-05	ug/mL	88.61	% Recovery	
48	SPK-POST	S1006070126	S10V000578	0 1			Thallium	SOLID	1	9.8270E-01			3.00E-06	ug/mL	96.235	% Recovery	
Sample Sequence 49																	
49	CCV	S1006070128		0 0			Silver	LIQUID	.0004	3.7240E-04			8.00E-06	ug/mL	93.1	% Recovery	
49	CCV	S1006070128		0 0			Arsenic	LIQUID	.002	2.0550E-03			4.20E-05	ug/mL	102.75	% Recovery	
49	CCV	S1006070128		0 0			Cobalt	LIQUID	.002	1.9030E-03			2.00E-05	ug/mL	95.15	% Recovery	
49	CCV	S1006070128		0 0			Cadmium	LIQUID	.002	1.8990E-03			3.00E-06	ug/mL	94.95	% Recovery	
49	CCV	S1006070128		0 0			Chromium	LIQUID	.002	2.0230E-03			1.40E-04	ug/mL	101.15	% Recovery	
49	CCV	S1006070128		0 0			Lead	LIQUID	.002	1.9820E-03			3.10E-05	ug/mL	99.1	% Recovery	
50	CCV	S1006070128		0 1			Antimony	LIQUID	.002	1.9000E-03			4.40E-05	ug/mL	95	% Recovery	
49	CCV	S1006070128		0 0			Selenium	LIQUID	.002	1.9480E-03			6.10E-05	ug/mL	97.4	% Recovery	
50	CCV	S1006070128		0 1			Thallium	LIQUID	.002	1.9220E-03			3.00E-06	ug/mL	96.1	% Recovery	
49	CCV	S1006070128		0 0			Vanadium	LIQUID	.002	1.9980E-03			2.40E-05	ug/mL	99.9	% Recovery	
49	CCV	S1006070128		0 0			Nickel	LIQUID	.002	1.9060E-03			1.20E-05	ug/mL	95.3	% Recovery	
Sample Sequence 51																	
51	CCB	S1006070127		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
51	CCB	S1006070127		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
51	CCB	S1006070127		0 0			Cobalt	LIQUID		<2.0000E-05			2.00E-05	ug/mL			
51	CCB	S1006070127		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			

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LABCORE Completed Batch Report for Batch# 00019915

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
51	CCB	S1006070127		0 0			Chromium	LIQUID		<1.4000E-04			1.40E-04	ug/mL			
51	CCB	S1006070127		0 0			Lead	LIQUID		<3.1000E-05			3.10E-05	ug/mL			
51	CCB	S1006070127		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
51	CCB	S1006070127		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
51	CCB	S1006070127		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
51	CCB	S1006070127		0 0			Vanadium	LIQUID		<2.4000E-05			2.40E-05	ug/mL			
51	CCB	S1006070127		0 0			Nickel	LIQUID		1.3460E-05			1.20E-05	ug/mL			
Sample Sequence 52																	
52	CCV	S1006070130		0 0			Silver	LIQUID	.0004	3.6910E-04			8.00E-06	ug/mL	92.275	% Recovery	
52	CCV	S1006070130		0 0			Arsenic	LIQUID	.002	2.1050E-03			4.20E-05	ug/mL	105.25	% Recovery	
52	CCV	S1006070130		0 0			Cobalt	LIQUID	.002	1.8540E-03			2.00E-05	ug/mL	92.7	% Recovery	
52	CCV	S1006070130		0 0			Cadmium	LIQUID	.002	1.9050E-03			3.00E-06	ug/mL	95.25	% Recovery	
52	CCV	S1006070130		0 0			Chromium	LIQUID	.002	1.9850E-03			1.40E-04	ug/mL	99.25	% Recovery	
52	CCV	S1006070130		0 0			Lead	LIQUID	.002	1.9560E-03			3.10E-05	ug/mL	97.8	% Recovery	
53	CCV	S1006070130		0 1			Antimony	LIQUID	.002	1.8870E-03			4.40E-05	ug/mL	94.35	% Recovery	
52	CCV	S1006070130		0 0			Selenium	LIQUID	.002	1.8670E-03			6.10E-05	ug/mL	93.35	% Recovery	
53	CCV	S1006070130		0 1			Thallium	LIQUID	.002	1.9040E-03			3.00E-06	ug/mL	95.2	% Recovery	
52	CCV	S1006070130		0 0			Vanadium	LIQUID	.002	1.9980E-03			2.40E-05	ug/mL	99.9	% Recovery	
52	CCV	S1006070130		0 0			Nickel	LIQUID	.002	1.8630E-03			1.20E-05	ug/mL	93.15	% Recovery	
Sample Sequence 54																	
55	LLS	S1006070131		0 1			Silver	LIQUID	.00001	9.6160E-06			8.00E-06	ug/mL	96.16	% Recovery	
56	LLS	S1006070131		0 2			Arsenic	LIQUID	.0002	2.2040E-04			4.20E-05	ug/mL	110.2	% Recovery	
55	LLS	S1006070131		0 1			Cobalt	LIQUID	.00005	4.2020E-05			2.00E-05	ug/mL	84.04	% Recovery	
54	LLS	S1006070131		0 0			Cadmium	LIQUID	.00001	8.6290E-06			3.00E-06	ug/mL	86.29	% Recovery	
56	LLS	S1006070131		0 2			Chromium	LIQUID	.0002	2.1030E-04			1.40E-04	ug/mL	105.15	% Recovery	
55	LLS	S1006070131		0 1			Lead	LIQUID	.00005	4.2740E-05			3.10E-05	ug/mL	85.48	% Recovery	
58	LLS	S1006070131		0 4			Antimony	LIQUID	.0001	9.5050E-05			4.40E-05	ug/mL	95.05	% Recovery	
56	LLS	S1006070131		0 2			Selenium	LIQUID	.0002	1.3340E-04			6.10E-05	ug/mL	66.7	% Recovery	
57	LLS	S1006070131		0 3			Thallium	LIQUID	.00001	7.3200E-06			3.00E-06	ug/mL	73.2	% Recovery	
56	LLS	S1006070131		0 2			Vanadium	LIQUID	.0002	1.9390E-04			2.40E-05	ug/mL	96.95	% Recovery	
55	LLS	S1006070131		0 1			Nickel	LIQUID	.00005	4.4890E-05			1.20E-05	ug/mL	89.78	% Recovery	
Sample Sequence 59																	
59	CCB	S1006070129		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
59	CCB	S1006070129		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
59	CCB	S1006070129		0 0			Cobalt	LIQUID		<2.0000E-05			2.00E-05	ug/mL			
59	CCB	S1006070129		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
59	CCB	S1006070129		0 0			Chromium	LIQUID		<1.4000E-04			1.40E-04	ug/mL			
59	CCB	S1006070129		0 0			Lead	LIQUID		<3.1000E-05			3.10E-05	ug/mL			
59	CCB	S1006070129		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
59	CCB	S1006070129		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
59	CCB	S1006070129		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
59	CCB	S1006070129		0 0			Vanadium	LIQUID		<2.4000E-05			2.40E-05	ug/mL			

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019915

59	CCB	S1006070129	0 0	Nickel	LIQUID	<1.2000E-05		1.20E-05	ug/mL

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019915

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019915

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006070111	ICV				
2	S1006070111	ICV				
3	S1006070113	LLS				
4	S1006070113	LLS				
5	S1006070113	LLS				
6	S1006070113	LLS				
7	S1006070113	LLS				
8	S1006070112	ICB				
9	S1006070114	SERDIL	S10V000420			
10	S10V000420	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
11	S1004280003	DUP	S10V000420			
12	S10V000088	SAMPLE		20090877	B238K3	C Farm WMC 2010-1
13	S1006070115	SPK-POST	S10V000420			
14	S1006070115	SPK-POST	S10V000420			
15	S1004280004	SPK-PREDIG	S10V000420			
16	S1004280008	SPK-PREDIG	S10V000420			
17	S1006070116	CCV				
18	S1006070116	CCV				
19	S1006070117	CCB				
20	S1004280001	BLNK-PREP				
21	S09V001618	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
22	S09V001630	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
23	S09V001645	SAMPLE		20090877	B236P2	C Farm WMC 2010-1
24	S1006070118	CCV				
25	S1006070118	CCV				
26	S1006070123	LLS				
27	S1006070123	LLS				
28	S1006070123	LLS				
29	S1006070123	LLS				
30	S1006070123	LLS				
31	S1006070119	CCB				
32	S1006070122	ICV				
33	S1006070122	ICV				
34	S1006070124	LLS				
35	S1006070124	LLS				

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LABCORE Completed Batch Report for Batch# 00019915

36	S1006070124	LLS				
37	S1006070124	LLS				
38	S1006070124	LLS				
39	S1006070121	ICB				
40	S1006070125	SERDIL	S10V000578			
41	S10V000578	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
42	S10V000630	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
43	S10V000639	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
44	S10V000657	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
45	S1004280002	STD-PREP				
46	S1004280002	STD-PREP				
47	S1006070126	SPK-POST	S10V000578			
48	S1006070126	SPK-POST	S10V000578			
49	S1006070128	CCV				
50	S1006070128	CCV				
51	S1006070127	CCB				
52	S1006070130	CCV				
53	S1006070130	CCV				
54	S1006070131	LLS				
55	S1006070131	LLS				
56	S1006070131	LLS				
57	S1006070131	LLS				
58	S1006070131	LLS				
59	S1006070129	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020171

Analyst: Mull, Bryanna **Book#:**

Instrument: ICP/MS AGILENT

Method: MS PERIODIC TABLE, LA-506-103 Rev/Mod A-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019100

Batch Comment: C-Farm Periodic Table ICP-MS trm

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
2	ICV	S1006180115		0 1			Antimony	LIQUID	.002	2.1920E-03			4.40E-05	ug/mL	109.6	% Recovery	
1	ICV	S1006180115		0 0			Thallium	LIQUID	.002	2.0160E-03			3.00E-06	ug/mL	100.8	% Recovery	
Sample Sequence 3																	
4	LLS	S1006180117		0 1			Antimony	LIQUID	.0001	1.0080E-04			4.40E-05	ug/mL	100.8	% Recovery	
3	LLS	S1006180117		0 0			Thallium	LIQUID	.00001	8.8310E-06			3.00E-06	ug/mL	88.31	% Recovery	
Sample Sequence 5																	
5	ICB	S1006180116		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
5	ICB	S1006180116		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
Sample Sequence 6																	
6	BLNK-PREP	S1004280001		0 1	A		Antimony	LIQUID		<8.8000E-03			8.80E-03	ug/mL			
6	BLNK-PREP	S1004280001		0 1	A		Thallium	LIQUID		2.2280E-03			6.00E-04	ug/mL			
Sample Sequence 7																	
7	SAMPLE	S10V000420		0 1	A		Thallium	SOLID	N/A	9.9440E-02			6.57E-03	ug/g			B
Sample Sequence 8																	
8	DUP	S1004280003	S10V000420	0 1	A		Antimony	SOLID		<9.0999E-02			0.090999	ug/g			
8	DUP	S1004280003	S10V000420	0 1	A		Thallium	SOLID	9.9440E-02	9.1744E-02			6.20E-03	ug/g	8.0510	% RPD	
Sample Sequence 9																	
9	SAMPLE	S10V000578		0 1	A		Thallium	SOLID	N/A	8.5177E-02			6.32E-03	ug/g			B
Sample Sequence 10																	
10	SAMPLE	S09V001618		0 1	A		Thallium	SOLID	N/A	8.8646E-02			6.31E-03	ug/g			B
Sample Sequence 11																	
11	SAMPLE	S09V001630		0 1	A		Thallium	SOLID	N/A	7.6459E-02			6.35E-03	ug/g			B
Sample Sequence 12																	
12	SAMPLE	S09V001645		0 1	A		Thallium	SOLID	N/A	8.4600E-02			6.42E-03	ug/g			B
Sample Sequence 13																	
13	SAMPLE	S10V000088		0 1	A		Thallium	SOLID	N/A	7.2452E-02			6.18E-03	ug/g			B
Sample Sequence 14																	
15	CCV	S1006180120		0 1			Antimony	LIQUID	.002	2.0890E-03			4.40E-05	ug/mL	104.45	% Recovery	
14	CCV	S1006180120		0 0			Thallium	LIQUID	.002	1.8850E-03			3.00E-06	ug/mL	94.25	% Recovery	
Sample Sequence 16																	
16	CCB	S1006180121		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
16	CCB	S1006180121		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
Sample Sequence 17																	

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020171

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
17	SERDIL	S1006180118	S10V000420	0 0			Antimony	SOLID		<4.8144E-01			0.48144	ug/g	N/A		
17	SERDIL	S1006180118	S10V000420	0 0			Thallium	SOLID		1.4520E-01			0.032826	ug/g	46.016	% Diff	
Sample Sequence 18																	
18	SAMPLE	S10V000630		0 1	A		Thallium	SOLID	N/A	6.3357E-02			6.27E-03	ug/g			B
Sample Sequence 19																	
19	SAMPLE	S10V000639		0 1	A		Thallium	SOLID	N/A	5.2030E-02			6.12E-03	ug/g			BJ
Sample Sequence 20																	
20	SAMPLE	S10V000657		0 1	A		Thallium	SOLID	N/A	6.0850E-02			6.46E-03	ug/g			BJ
Sample Sequence 21																	
21	STD-PREP	S1004280002		0 2	A		Antimony	LIQUID	5	5.4850E+00			0.22	ug/mL	109.7	% Recovery	
Sample Sequence 22																	
22	STD-PREP	S1004280005		0 0	A		Thallium	LIQUID	5	4.6430E+00			0.015	ug/mL	92.86	% Recovery	
Sample Sequence 23																	
23	SPK-PREDIG	S1004280004	S10V000420	0 1	A		Antimony	SOLID	59.41347	1.3124E+01			2.6142	ug/g	22.09	% Recovery	
Sample Sequence 24																	
24	SPK-PREDIG	S1004280008	S10V000420	0 1	A		Thallium	SOLID	59.188405	5.6750E+01			0.17757	ug/g	95.711	% Recovery	
Sample Sequence 25																	
25	SPK-POST	S1006180119	S10V000420	0 0			Antimony	SOLID	.2	2.0840E-01			4.40E-05	ug/mL	104.2	% Recovery	
25	SPK-POST	S1006180119	S10V000420	0 0			Thallium	SOLID	.2	1.9176E-01			3.00E-06	ug/mL	91.336	% Recovery	
Sample Sequence 26																	
26	CCV	S1006180122		0 0			Antimony	LIQUID	.002	2.1810E-03			4.40E-05	ug/mL	109.05	% Recovery	
27	CCV	S1006180122		0 1			Thallium	LIQUID	.002	1.8730E-03			3.00E-06	ug/mL	93.65	% Recovery	
Sample Sequence 28																	
29	LLS	S1006210040		0 1			Antimony	LIQUID	.0001	9.9470E-05			4.40E-05	ug/mL	99.47	% Recovery	
28	LLS	S1006210040		0 0			Thallium	LIQUID	.00001	1.0120E-05			3.00E-06	ug/mL	101.2	% Recovery	
Sample Sequence 30																	
30	CCB	S1006180123		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
30	CCB	S1006180123		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020171

Final Page for Batch# 00020171

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00020171

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006180115	ICV				
2	S1006180115	ICV				
3	S1006180117	LLS				
4	S1006180117	LLS				
5	S1006180116	ICB				
6	S1004280001	BLNK-PREP				
7	S10V000420	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
8	S1004280003	DUP	S10V000420			
9	S10V000578	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
10	S09V001618	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
11	S09V001630	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
12	S09V001645	SAMPLE		20090877	B236P2	C Farm WMC 2010-1
13	S10V000088	SAMPLE		20090877	B238K3	C Farm WMC 2010-1
14	S1006180120	CCV				
15	S1006180120	CCV				
16	S1006180121	CCB				
17	S1006180118	SERDIL	S10V000420			
18	S10V000630	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
19	S10V000639	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
20	S10V000657	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
21	S1004280002	STD-PREP				
22	S1004280005	STD-PREP				
23	S1004280004	SPK-PREDIG	S10V000420			
24	S1004280008	SPK-PREDIG	S10V000420			
25	S1006180119	SPK-POST	S10V000420			
26	S1006180122	CCV				
27	S1006180122	CCV				
28	S1006210040	LLS				
29	S1006210040	LLS				
30	S1006180123	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020363

Analyst: Mull, Bryanna

Book#:

Instrument: ICP/MS AGILENT

Method: MS PERIODIC TABLE, LA-506-103 Rev/Mod A-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019633, 00020265

Batch Comment:

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
2	ICV	S1006300056		0 1			Silver	LIQUID	.0004	4.3450E-04			8.00E-06	ug/mL	108.62	% Recovery	
2	ICV	S1006300056		0 1			Arsenic	LIQUID	.002	2.0840E-03			4.20E-05	ug/mL	104.2	% Recovery	
2	ICV	S1006300056		0 1			Cadmium	LIQUID	.002	2.1240E-03			3.00E-06	ug/mL	106.2	% Recovery	
3	ICV	S1006300056		0 2			Antimony	LIQUID	.002	1.9290E-03			4.40E-05	ug/mL	96.45	% Recovery	
2	ICV	S1006300056		0 1			Selenium	LIQUID	.002	2.1670E-03			6.10E-05	ug/mL	108.35	% Recovery	
1	ICV	S1006300056		0 0			Thallium	LIQUID	.002	1.9700E-03			3.00E-06	ug/mL	98.5	% Recovery	
Sample Sequence 5																	
7	LLS	S1006300058		0 2			Silver	LIQUID	.00004	3.8690E-05			8.00E-06	ug/mL	96.725	% Recovery	
7	LLS	S1006300058		0 2			Arsenic	LIQUID	.0002	1.9600E-04			4.20E-05	ug/mL	98	% Recovery	
5	LLS	S1006300058		0 0			Cadmium	LIQUID	.00001	6.9490E-06			3.00E-06	ug/mL	69.49	% Recovery	
9	LLS	S1006300058		0 4			Antimony	LIQUID	.0001	9.6730E-05			4.40E-05	ug/mL	96.73	% Recovery	
7	LLS	S1006300058		0 2			Selenium	LIQUID	.0002	1.8180E-04			6.10E-05	ug/mL	90.9	% Recovery	
9	LLS	S1006300058		0 4			Thallium	LIQUID	.0001	8.5950E-05			3.00E-06	ug/mL	85.95	% Recovery	
Sample Sequence 10																	
10	ICB	S1006300057		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
10	ICB	S1006300057		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
10	ICB	S1006300057		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
10	ICB	S1006300057		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
10	ICB	S1006300057		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
10	ICB	S1006300057		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
Sample Sequence 11																	
11	BLNK-PREP	S1005250069		0 0	A		Silver	LIQUID		<1.6000E-03			1.60E-03	ug/mL			
11	BLNK-PREP	S1005250069		0 0	A		Cadmium	LIQUID		<6.0000E-04			6.00E-04	ug/mL			
11	BLNK-PREP	S1005250069		0 0	A		Antimony	LIQUID		<8.8000E-03			8.80E-03	ug/mL			
Sample Sequence 13																	
13	SERDIL	S1006300059	S10V000666	0 0			Silver	SOLID		<9.6513E-02			0.096513	ug/g	N/A		
13	SERDIL	S1006300059	S10V000666	0 0			Cadmium	SOLID		6.4712E-02			0.036193	ug/g	3.6977	% Diff	
13	SERDIL	S1006300059	S10V000666	0 0			Antimony	SOLID		<5.3082E-01			0.53082	ug/g	N/A		
Sample Sequence 15																	
15	SAMPLE	S10V000666		0 0	A		Silver	SOLID	N/A	5.8222E-02			0.019303	ug/g			J
15	SAMPLE	S10V000666		0 0	A		Cadmium	SOLID	N/A	6.7197E-02			7.24E-03	ug/g			J
Sample Sequence 17																	

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020363

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
17	DUP	S1005250071	S10V000666	0 0	A		Silver	SOLID	5.8222E-02	6.2234E-02			0.018508	ug/g	6.6618	% RPD	
17	DUP	S1005250071	S10V000666	0 0	A		Cadmium	SOLID	6.7197E-02	7.2992E-02			6.94E-03	ug/g	8.2667	% RPD	
17	DUP	S1005250071	S10V000666	0 0	A		Antimony	SOLID		<1.0180E-01			0.1018	ug/g			
Sample Sequence 19																	
19	SAMPLE	S10V000675		0 0	A		Silver	SOLID	N/A	4.6638E-02			0.019124	ug/g			J
19	SAMPLE	S10V000675		0 0	A		Cadmium	SOLID	N/A	6.2941E-02			7.17E-03	ug/g			J
Sample Sequence 21																	
21	SAMPLE	S10V000684		0 0	A		Silver	SOLID	N/A	6.2412E-02			0.016484	ug/g			J
21	SAMPLE	S10V000684		0 0	A		Cadmium	SOLID	N/A	6.3999E-02			6.18E-03	ug/g			
Sample Sequence 23																	
23	SAMPLE	S10V000693		0 0	A		Silver	SOLID	N/A	3.3736E-02			8.54E-03	ug/g			J
23	SAMPLE	S10V000693		0 0	A		Cadmium	SOLID	N/A	3.7662E-02			3.20E-03	ug/g			
Sample Sequence 25																	
25	STD-PREP	S1005250070		0 0	A		Silver	LIQUID	1	1.0440E+00			0.04	ug/mL	104.4	% Recovery	
25	STD-PREP	S1005250070		0 0	A		Cadmium	LIQUID	5	5.1200E+00			0.015	ug/mL	102.4	% Recovery	
25	STD-PREP	S1005250070		0 0	A		Antimony	LIQUID	5	5.0450E+00			0.22	ug/mL	100.9	% Recovery	
Sample Sequence 27																	
27	CCV	S1006300061		0 0			Silver	LIQUID	.0004	4.0920E-04			8.00E-06	ug/mL	102.3	% Recovery	
29	CCV	S1006300061		0 2			Arsenic	LIQUID	.002	2.0730E-03			4.20E-05	ug/mL	103.65	% Recovery	
27	CCV	S1006300061		0 0			Cadmium	LIQUID	.002	2.0420E-03			3.00E-06	ug/mL	102.1	% Recovery	
30	CCV	S1006300061		0 3			Antimony	LIQUID	.002	1.9070E-03			4.40E-05	ug/mL	95.35	% Recovery	
29	CCV	S1006300061		0 2			Selenium	LIQUID	.002	2.1050E-03			6.10E-05	ug/mL	105.25	% Recovery	
28	CCV	S1006300061		0 1			Thallium	LIQUID	.002	2.1450E-03			3.00E-06	ug/mL	107.25	% Recovery	
Sample Sequence 31																	
31	CCB	S1006300062		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
31	CCB	S1006300062		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
31	CCB	S1006300062		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
31	CCB	S1006300062		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
31	CCB	S1006300062		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
31	CCB	S1006300062		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
Sample Sequence 32																	
32	SPK-PREDIG	S1005250072	S10V000666	0 0	A		Silver	SOLID	12.074086	1.2104E+01			0.48296	ug/g	99.768	% Recovery	
32	SPK-PREDIG	S1005250072	S10V000666	0 0	A		Cadmium	SOLID	60.37043	6.1035E+01			0.18111	ug/g	100.99	% Recovery	
32	SPK-PREDIG	S1005250072	S10V000666	0 0	A		Antimony	SOLID	60.37043	2.5766E+01			2.6563	ug/g	42.68	% Recovery	
Sample Sequence 34																	
34	SPK-POST	S1006300060	S10V000666	0 0			Silver	SOLID	.2	1.9460E-01			8.00E-06	ug/mL	94.887	% Recovery	
34	SPK-POST	S1006300060	S10V000666	0 0			Cadmium	SOLID	1	9.6530E-01			3.00E-06	ug/mL	95.973	% Recovery	
35	SPK-POST	S1006300060	S10V000666	0 1			Antimony	SOLID	1	9.5810E-01			4.40E-05	ug/mL	95.81	% Recovery	
Sample Sequence 36																	
36	CCV	S1006300063		0 0			Silver	LIQUID	.0004	4.5450E-04			8.00E-06	ug/mL	113.62	% Recovery	
38	CCV	S1006300063		0 2			Arsenic	LIQUID	.002	2.1020E-03			4.20E-05	ug/mL	105.1	% Recovery	
36	CCV	S1006300063		0 0			Cadmium	LIQUID	.002	2.2790E-03			3.00E-06	ug/mL	113.95	% Recovery	
39	CCV	S1006300063		0 3			Antimony	LIQUID	.002	1.8880E-03			4.40E-05	ug/mL	94.4	% Recovery	

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LABCORE Completed Batch Report for Batch# 00020363

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
38	CCV	S1006300063		0 2			Selenium	LIQUID	.002	2.1890E-03			6.10E-05	ug/mL	109.45	% Recovery	
37	CCV	S1006300063		0 1			Thallium	LIQUID	.002	2.1250E-03			3.00E-06	ug/mL	106.25	% Recovery	
Sample Sequence 40																	
40	CCB	S1006300064		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
40	CCB	S1006300064		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
40	CCB	S1006300064		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
40	CCB	S1006300064		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
40	CCB	S1006300064		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
40	CCB	S1006300064		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
Sample Sequence 41																	
41	CCV	S1006300073		0 0			Silver	LIQUID	.0004	4.0610E-04			8.00E-06	ug/mL	101.52	% Recovery	
43	CCV	S1006300073		0 2			Arsenic	LIQUID	.002	1.9990E-03			4.20E-05	ug/mL	99.95	% Recovery	
41	CCV	S1006300073		0 0			Cadmium	LIQUID	.002	2.0330E-03			3.00E-06	ug/mL	101.65	% Recovery	
44	CCV	S1006300073		0 3			Antimony	LIQUID	.002	1.7890E-03			4.40E-05	ug/mL	89.45	% Recovery	
43	CCV	S1006300073		0 2			Selenium	LIQUID	.002	2.1210E-03			6.10E-05	ug/mL	106.05	% Recovery	
42	CCV	S1006300073		0 1			Thallium	LIQUID	.002	1.8790E-03			3.00E-06	ug/mL	93.95	% Recovery	
Sample Sequence 45																	
45	CCB	S1006300074		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
45	CCB	S1006300074		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
45	CCB	S1006300074		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
45	CCB	S1006300074		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
45	CCB	S1006300074		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
45	CCB	S1006300074		0 0			Thallium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
Sample Sequence 46																	
46	BLNK-PREP	S1006230030		0 0	A		Silver	LIQUID		<1.6000E-03			1.60E-03	ug/mL			
46	BLNK-PREP	S1006230030		0 0	A		Arsenic	LIQUID		<8.4000E-03			8.40E-03	ug/mL			
46	BLNK-PREP	S1006230030		0 0	A		Antimony	LIQUID		<8.8000E-03			8.80E-03	ug/mL			
46	BLNK-PREP	S1006230030		0 0	A		Selenium	LIQUID		<1.2200E-02			0.0122	ug/mL			
46	BLNK-PREP	S1006230030		0 0	A		Thallium	LIQUID		1.2580E-01			6.00E-04	ug/mL			
Sample Sequence 47																	
47	STD-PREP	S1006230031		0 0	A		Silver	LIQUID	1	1.0180E+00			0.04	ug/mL	101.8	% Recovery	
47	STD-PREP	S1006230031		0 0	A		Arsenic	LIQUID	5	5.8900E+00			0.21	ug/mL	117.8	% Recovery	
47	STD-PREP	S1006230031		0 0	A		Antimony	LIQUID	5	4.9760E+00			0.22	ug/mL	99.52	% Recovery	
47	STD-PREP	S1006230031		0 0	A		Selenium	LIQUID	5	5.7400E+00			0.305	ug/mL	114.8	% Recovery	
48	STD-PREP	S1006230031		0 1	A		Thallium	LIQUID	5	6.9500E+00			0.015	ug/mL	139	% Recovery	
Sample Sequence 49																	
49	SPK-PREDIG	S1006230033	S10V001192	0 0	A		Arsenic	SOLID	60.37045	5.7827E+01			2.0758	ug/g	93.102	% Recovery	
49	SPK-PREDIG	S1006230033	S10V001192	0 0	A		Selenium	SOLID	60.37045	4.9197E+01			3.0149	ug/g	81.492	% Recovery	
Sample Sequence 51																	
51	SERDIL	S1006300070	S10V001192	0 0			Arsenic	SOLID		2.3655E+00			0.41345	ug/g	45.975	% Diff	
51	SERDIL	S1006300070	S10V001192	0 0			Selenium	SOLID		<6.0049E-01			0.60049	ug/g	N/A		
Sample Sequence 53																	
53	DUP	S1006230032	S10V001192	0 0	A		Arsenic	SOLID		1.5472E+00			0.084022	ug/g			

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LABCORE Completed Batch Report for Batch# 00020363

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
53	DUP	S1006230032	S10V001192	0 0	A		Selenium	SOLID		<1.2203E-01			0.12203	ug/g			
Sample Sequence 54																	
54	SPK-POST	S1006300072	S10V001192	0 0			Arsenic	SOLID	.2	3.0140E-01			4.20E-05	ug/mL	68.39	% Recovery	
54	SPK-POST	S1006300072	S10V001192	0 0			Selenium	SOLID	.2	1.2908E-01			6.10E-05	ug/mL	64.54	% Recovery	
Sample Sequence 56																	
56	CCV	S1006300075		0 0			Silver	LIQUID	.0004	4.0010E-04			8.00E-06	ug/mL	100.02	% Recovery	
59	CCV	S1006300075		0 3			Arsenic	LIQUID	.002	2.0450E-03			4.20E-05	ug/mL	102.25	% Recovery	
56	CCV	S1006300075		0 0			Cadmium	LIQUID	.002	2.0470E-03			3.00E-06	ug/mL	102.35	% Recovery	
57	CCV	S1006300075		0 1			Antimony	LIQUID	.002	1.9920E-03			4.40E-05	ug/mL	99.6	% Recovery	
59	CCV	S1006300075		0 3			Selenium	LIQUID	.002	2.1690E-03			6.10E-05	ug/mL	108.45	% Recovery	
58	CCV	S1006300075		0 2			Thallium	LIQUID	.002	2.0460E-03			3.00E-06	ug/mL	102.3	% Recovery	
Sample Sequence 60																	
60	CCB	S1006300077		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
60	CCB	S1006300077		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
60	CCB	S1006300077		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
60	CCB	S1006300077		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
60	CCB	S1006300077		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
60	CCB	S1006300077		0 0			Thallium	LIQUID		8.5600E-06			3.00E-06	ug/mL			
Sample Sequence 61																	
61	SAMPLE	S10V001194		0 0	A		Arsenic	SOLID	N/A	2.5926E+00			0.083312	ug/g			
61	SAMPLE	S10V001194		0 0	A		Selenium	SOLID	N/A	<1.2100E-01			0.121	ug/g			U
Sample Sequence 62																	
62	SAMPLE	S10V001196		0 0	A		Arsenic	SOLID	N/A	3.1782E+00			0.083901	ug/g			
62	SAMPLE	S10V001196		0 0	A		Selenium	SOLID	N/A	<1.2186E-01			0.12186	ug/g			U
Sample Sequence 63																	
63	SAMPLE	S10V001197		0 0	A		Arsenic	SOLID	N/A	2.3187E+00			0.082181	ug/g			
63	SAMPLE	S10V001197		0 0	A		Selenium	SOLID	N/A	<1.1936E-01			0.11936	ug/g			U
Sample Sequence 64																	
64	SAMPLE	S10V001198		0 0	A		Arsenic	SOLID	N/A	1.7004E+00			0.083112	ug/g			
64	SAMPLE	S10V001198		0 0	A		Selenium	SOLID	N/A	<1.2071E-01			0.12071	ug/g			U
Sample Sequence 65																	
65	CCV	S1006300078		0 0			Silver	LIQUID	.0004	4.0390E-04			8.00E-06	ug/mL	100.98	% Recovery	
68	CCV	S1006300078		0 3			Arsenic	LIQUID	.002	2.1530E-03			4.20E-05	ug/mL	107.65	% Recovery	
65	CCV	S1006300078		0 0			Cadmium	LIQUID	.002	2.0550E-03			3.00E-06	ug/mL	102.75	% Recovery	
66	CCV	S1006300078		0 1			Antimony	LIQUID	.002	1.9250E-03			4.40E-05	ug/mL	96.25	% Recovery	
68	CCV	S1006300078		0 3			Selenium	LIQUID	.002	2.1410E-03			6.10E-05	ug/mL	107.05	% Recovery	
67	CCV	S1006300078		0 2			Thallium	LIQUID	.002	2.1210E-03			3.00E-06	ug/mL	106.05	% Recovery	
Sample Sequence 69																	
71	LLS	S1006300076		0 2			Silver	LIQUID	.00004	3.8790E-05			8.00E-06	ug/mL	96.975	% Recovery	
71	LLS	S1006300076		0 2			Arsenic	LIQUID	.0002	1.9680E-04			4.20E-05	ug/mL	98.4	% Recovery	
69	LLS	S1006300076		0 0			Cadmium	LIQUID	.00001	1.0260E-05			3.00E-06	ug/mL	102.6	% Recovery	
73	LLS	S1006300076		0 4			Antimony	LIQUID	.0001	9.8430E-05			4.40E-05	ug/mL	98.43	% Recovery	
71	LLS	S1006300076		0 2			Selenium	LIQUID	.0002	1.8350E-04			6.10E-05	ug/mL	91.75	% Recovery	

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LABCORE Completed Batch Report for Batch# 00020363

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
73	LLS	S1006300076		0 4			Thallium	LIQUID	.0001	1.1190E-04			3.00E-06	ug/mL	111.9	% Recovery	
Sample Sequence 74																	
74	CCB	S1006300079		0 0			Silver	LIQUID		<8.0000E-06			8.00E-06	ug/mL			
74	CCB	S1006300079		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
74	CCB	S1006300079		0 0			Cadmium	LIQUID		<3.0000E-06			3.00E-06	ug/mL			
74	CCB	S1006300079		0 0			Antimony	LIQUID		<4.4000E-05			4.40E-05	ug/mL			
74	CCB	S1006300079		0 0			Selenium	LIQUID		<6.1000E-05			6.10E-05	ug/mL			
74	CCB	S1006300079		0 0			Thallium	LIQUID		5.2070E-06			3.00E-06	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00020363

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00020363

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006300056	ICV				
2	S1006300056	ICV				
3	S1006300056	ICV				
4	S1006300056	ICV				
5	S1006300058	LLS				
6	S1006300058	LLS				
7	S1006300058	LLS				
8	S1006300058	LLS				
9	S1006300058	LLS				
10	S1006300057	ICB				
11	S1005250069	BLNK-PREP				
12	S1005250069	BLNK-PREP				
13	S1006300059	SERDIL	S10V000666			
14	S1006300059	SERDIL	S10V000666			
15	S10V000666	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
16	S10V000666	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
17	S1005250071	DUP	S10V000666			
18	S1005250071	DUP	S10V000666			
19	S10V000675	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
20	S10V000675	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
21	S10V000684	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
22	S10V000684	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
23	S10V000693	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
24	S10V000693	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
25	S1005250070	STD-PREP				
26	S1005250070	STD-PREP				
27	S1006300061	CCV				
28	S1006300061	CCV				
29	S1006300061	CCV				
30	S1006300061	CCV				
31	S1006300062	CCB				
32	S1005250072	SPK-PREDIG	S10V000666			
33	S1005250073	SPK-PREDIG	S10V000666			
34	S1006300060	SPK-POST	S10V000666			
35	S1006300060	SPK-POST	S10V000666			

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LABCORE Completed Batch Report for Batch# 00020363

36	S1006300063	CCV				
37	S1006300063	CCV				
38	S1006300063	CCV				
39	S1006300063	CCV				
40	S1006300064	CCB				
41	S1006300073	CCV				
42	S1006300073	CCV				
43	S1006300073	CCV				
44	S1006300073	CCV				
45	S1006300074	CCB				
46	S1006230030	BLNK-PREP				
47	S1006230031	STD-PREP				
48	S1006230031	STD-PREP				
49	S1006230033	SPK-PREDIG	S10V001192			
50	S1006230034	SPK-PREDIG	S10V001192			
51	S1006300070	SERDIL	S10V001192			
52	S10V001192	SAMPLE		20090877	B23KT4	C Farm WMC 2010-1
53	S1006230032	DUP	S10V001192			
54	S1006300072	SPK-POST	S10V001192			
55	S1006300072	SPK-POST	S10V001192			
56	S1006300075	CCV				
57	S1006300075	CCV				
58	S1006300075	CCV				
59	S1006300075	CCV				
60	S1006300077	CCB				
61	S10V001194	SAMPLE		20090877	B238H4	C Farm WMC 2010-1
62	S10V001196	SAMPLE		20090877	B238J0	C Farm WMC 2010-1
63	S10V001197	SAMPLE		20090877	B238J3	C Farm WMC 2010-1
64	S10V001198	SAMPLE		20090877	B238J6	C Farm WMC 2010-1
65	S1006300078	CCV				
66	S1006300078	CCV				
67	S1006300078	CCV				
68	S1006300078	CCV				
69	S1006300076	LLS				
70	S1006300076	LLS				
71	S1006300076	LLS				

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LABCORE Completed Batch Report for Batch# 00020363

72	S1006300076	LLS
73	S1006300076	LLS
74	S1006300079	CCB

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00020590

Analyst: Shaw, Levi **Book#:**

Instrument: ICP/MS PQ-EXCELL

Method: MS PERIODIC TABLE, LA-506-102 Rev/Mod F-1

Specification: C Farm WMC 2010-1

Prep Batch: 00020545

Batch Comment: ICP-MS analysis of Sb for C Farm WMC 2010-1, high HCl acid digestates. bsm

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1007130055		0 0			Antimony	LIQUID	.002	1.9680E-03			2.00E-06	ug/mL	98.4	% Recovery	
Sample Sequence 2																	
2	LLS	S1007130057		0 0			Antimony	LIQUID	.00001	1.1470E-05			2.00E-06	ug/mL	114.7	% Recovery	
Sample Sequence 3																	
3	ICB	S1007130056		0 0			Antimony	LIQUID		<2.0000E-06			2.00E-06	ug/mL			
Sample Sequence 4																	
4	BLNK-PREP	S1007090001		0 0	A		Antimony	LIQUID		<1.0000E-02			0.01	ug/mL			
Sample Sequence 5																	
5	SERDIL	S1007130058	S10V001147	0 0			Antimony	SOLID		1.1759E-01			0.047939	ug/g	1.7188	% Diff	
Sample Sequence 7																	
7	DUP	S1007090003	S10V001147	0 0	A		Antimony	SOLID		1.1774E-01			9.71E-03	ug/g			
Sample Sequence 9																	
9	SPK-PREDIG	S1007090004	S10V001147	0 0	A		Antimony	SOLID	49.338859	4.7193E+01			0.098678	ug/g	95.407	% Recovery	
Sample Sequence 10																	
10	SPK-POST	S1007130059	S10V001147	0 0			Antimony	SOLID	.1	1.0250E-01			2.00E-06	ug/g	100	% Recovery	
Sample Sequence 11																	
11	STD-PREP	S1007090002		0 0	A		Antimony	LIQUID	1	9.9350E-01			2.00E-03	ug/mL	99.35	% Recovery	
Sample Sequence 12																	
12	SPK-PREDIG	S1007090008	S10V001219	0 0	A		Antimony	SOLID	46.847184	4.2223E+01			0.093694	ug/g	89.52	% Recovery	
Sample Sequence 13																	
13	CCV	S1007130060		0 0			Antimony	LIQUID	.002	1.9580E-03			2.00E-06	ug/mL	97.9	% Recovery	
Sample Sequence 14																	
14	CCB	S1007130061		0 0			Antimony	LIQUID		2.3410E-06			2.00E-06	ug/mL			
Sample Sequence 15																	
15	SAMPLE	S10V001213		0 0	A		Antimony	SOLID	N/A	9.6839E-02			9.55E-03	ug/g			B
Sample Sequence 16																	
16	SAMPLE	S10V001214		0 0	A		Antimony	SOLID	N/A	2.6725E-01			9.34E-03	ug/g			
Sample Sequence 17																	
17	SAMPLE	S10V001215		0 0	A		Antimony	SOLID	N/A	7.4140E-02			9.66E-03	ug/g			BJ
Sample Sequence 18																	
18	SAMPLE	S10V001216		0 0	A		Antimony	SOLID	N/A	1.2162E-01			9.83E-03	ug/g			B
Sample Sequence 19																	
19	SAMPLE	S10V001217		0 0	A		Antimony	SOLID	N/A	1.6895E-01			9.64E-03	ug/g			B

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LABCORE Completed Batch Report for Batch# 00020590

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 20																	
20	SAMPLE	S10V001218		0 0	A		Antimony	SOLID	N/A	1.5858E-01			9.74E-03	ug/g			B
Sample Sequence 21																	
21	SAMPLE	S10V001220		0 0	A		Antimony	SOLID	N/A	8.0029E-02			9.65E-03	ug/g			BJ
Sample Sequence 22																	
22	SAMPLE	S10V001221		0 0	A		Antimony	SOLID	N/A	2.4667E-01			9.39E-03	ug/g			
Sample Sequence 23																	
23	CCV	S1007130062		0 0			Antimony	LIQUID	.002	1.9870E-03			2.00E-06	ug/mL	99.35	% Recovery	
Sample Sequence 24																	
24	CCB	S1007130063		0 0			Antimony	LIQUID		<2.0000E-06			2.00E-06	ug/mL			
Sample Sequence 25																	
25	SAMPLE	S10V001219		0 0	A		Antimony	SOLID	N/A	2.8587E-01			9.60E-03	ug/g			
Sample Sequence 26																	
26	DUP	S1007090007	S10V001219	0 0	A		Antimony	SOLID	2.8587E-01	2.8953E-01			9.63E-03	ug/g	1.2728	% RPD	
Sample Sequence 27																	
27	SAMPLE	S10V001204		0 0	A		Antimony	SOLID	N/A	1.8557E-01			9.51E-03	ug/g			c
Sample Sequence 28																	
28	DUP	S1007090005	S10V001204	0 0	A		Antimony	SOLID	1.8557E-01	2.7033E-01			9.16E-03	ug/g	37.183	% RPD	
Sample Sequence 29																	
29	SAMPLE	S10V001205		0 0	A		Antimony	SOLID	N/A	2.4538E-01			9.49E-03	ug/g			
Sample Sequence 30																	
30	SAMPLE	S10V001207		0 0	A		Antimony	SOLID	N/A	1.6109E-01			9.24E-03	ug/g			
Sample Sequence 31																	
31	SAMPLE	S10V001209		0 0	A		Antimony	SOLID	N/A	3.0267E-01			9.67E-03	ug/g			
Sample Sequence 32																	
32	SPK-PREDIG	S1007090006	S10V001204	0 0	A		Antimony	SOLID	45.947436	4.4463E+01			0.091895	ug/g	96.366	% Recovery	
Sample Sequence 33																	
33	CCV	S1007130065		0 0			Antimony	LIQUID	.002	2.0070E-03			2.00E-06	ug/mL	100.35	% Recovery	
Sample Sequence 34																	
34	LLS	S1007130066		0 0			Antimony	LIQUID	.00001	1.1850E-05			2.00E-06	ug/mL	118.5	% Recovery	
Sample Sequence 35																	
35	CCB	S1007130064		0 0			Antimony	LIQUID		<2.0000E-06			2.00E-06	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00020590

Final Page for Batch# 00020590

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00020590

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1007130055	ICV				
2	S1007130057	LLS				
3	S1007130056	ICB				
4	S1007090001	BLNK-PREP				
5	S1007130058	SERDIL	S10V001147			
6	S10V001147	SAMPLE		20090877	B238H1	C Farm WMC 2010-1
7	S1007090003	DUP	S10V001147			
8	S10V001149	SAMPLE		20090877	B238H7	C Farm WMC 2010-1
9	S1007090004	SPK-PREDIG	S10V001147			
10	S1007130059	SPK-POST	S10V001147			
11	S1007090002	STD-PREP				
12	S1007090008	SPK-PREDIG	S10V001219			
13	S1007130060	CCV				
14	S1007130061	CCB				
15	S10V001213	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
16	S10V001214	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
17	S10V001215	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
18	S10V001216	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
19	S10V001217	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
20	S10V001218	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
21	S10V001220	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
22	S10V001221	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
23	S1007130062	CCV				
24	S1007130063	CCB				
25	S10V001219	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
26	S1007090007	DUP	S10V001219			
27	S10V001204	SAMPLE		20100064	B23TK2	C Farm WMC 2010-1
28	S1007090005	DUP	S10V001204			
29	S10V001205	SAMPLE		20100064	B23TK5	C Farm WMC 2010-1
30	S10V001207	SAMPLE		20100064	B27130	C Farm WMC 2010-1
31	S10V001209	SAMPLE		20100064	B23TM6	C Farm WMC 2010-1
32	S1007090006	SPK-PREDIG	S10V001204			
33	S1007130065	CCV				
34	S1007130066	LLS				
35	S1007130064	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00023628

Analyst: Shaw, Levi

Book#:

Instrument: ICP/MS PQ-EXCELL

Method: MS PERIODIC TABLE, LA-506-102 Rev/Mod F-1

Specification: C Farm WMC 2010-1

Prep Batch: 00023345

Batch Comment: PER TAB ON C FARM SAMPLES

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1010280073		0 0			Arsenic	LIQUID	.002	1.9790E-03			6.30E-05	ug/mL	98.95	% Recovery	
1	ICV	S1010280073		0 0			Cadmium	LIQUID	.002	2.0040E-03			9.00E-06	ug/mL	100.2	% Recovery	
1	ICV	S1010280073		0 0			Lead	LIQUID	.002	1.9430E-03			1.50E-05	ug/mL	97.15	% Recovery	
1	ICV	S1010280073		0 0			Selenium	LIQUID	.002	2.0480E-03			1.35E-04	ug/mL	102.4	% Recovery	
2	ICV	S1010280073		0 1			Thallium	LIQUID	.002	1.9510E-03			2.00E-06	ug/mL	97.55	% Recovery	
Sample Sequence 3																	
3	LLS	S1010280075		0 0			Arsenic	LIQUID	.0002	1.9480E-04			6.30E-05	ug/mL	97.4	% Recovery	
5	LLS	S1010280075		0 2			Cadmium	LIQUID	.00001	9.9520E-06			9.00E-06	ug/mL	99.52	% Recovery	
4	LLS	S1010280075		0 1			Lead	LIQUID	.0001	1.0080E-04			1.50E-05	ug/mL	100.8	% Recovery	
3	LLS	S1010280075		0 0			Selenium	LIQUID	.0002	2.2850E-04			1.35E-04	ug/mL	114.25	% Recovery	
6	LLS	S1010280075		0 3			Thallium	LIQUID	.00001	9.8700E-06			2.00E-06	ug/mL	98.7	% Recovery	
Sample Sequence 7																	
7	ICB	S1010280074		0 0			Arsenic	LIQUID		<6.3000E-05			6.30E-05	ug/mL			
7	ICB	S1010280074		0 0			Cadmium	LIQUID		<9.0000E-06			9.00E-06	ug/mL			
7	ICB	S1010280074		0 0			Lead	LIQUID		<1.5000E-05			1.50E-05	ug/mL			
7	ICB	S1010280074		0 0			Selenium	LIQUID		<1.3500E-04			1.35E-04	ug/mL			
7	ICB	S1010280074		0 0			Thallium	LIQUID		<2.0000E-06			2.00E-06	ug/mL			
Sample Sequence 8																	
8	BLNK-PREP	S1010190128		0 0	A		Cadmium	LIQUID		<1.8000E-03			1.80E-03	ug/mL			
8	BLNK-PREP	S1010190128		0 0	A		Lead	LIQUID		<3.0000E-03			3.00E-03	ug/mL			
8	BLNK-PREP	S1010190128		0 0	A		Selenium	LIQUID		<2.7000E-02			0.027	ug/mL			
8	BLNK-PREP	S1010190128		0 0	A		Thallium	LIQUID		<4.0000E-04			4.00E-04	ug/mL			
Sample Sequence 9																	
9	SERDIL	S1010280076	S10V003308	0 0			Cadmium	SOLID		<5.9816E-02			0.059816	ug/g	N/A		
9	SERDIL	S1010280076	S10V003308	0 0			Lead	SOLID		3.4743E+00			0.14954	ug/g	2.0202	% Diff	
9	SERDIL	S1010280076	S10V003308	0 0			Selenium	SOLID		<1.3459E+00			1.3459	ug/g	N/A		
9	SERDIL	S1010280076	S10V003308	0 0			Thallium	SOLID		9.2445E-02			0.039877	ug/g	13.264	% Diff	
Sample Sequence 10																	
10	SAMPLE	S10V003308		0 0	A		Cadmium	SOLID	N/A	6.8529E-02			0.011963	ug/g			J
10	SAMPLE	S10V003308		0 0	A		Lead	SOLID	N/A	3.4055E+00			0.029908	ug/g			
10	SAMPLE	S10V003308		0 0	A		Selenium	SOLID	N/A	<2.6917E-01			0.26917	ug/g			U
10	SAMPLE	S10V003308		0 0	A		Thallium	SOLID	N/A	8.1619E-02			7.98E-03	ug/g			

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LABCORE Completed Batch Report for Batch# 00023628

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 11																	
11	DUP	S1010190130	S10V003308	0 0	A		Cadmium	SOLID	6.8529E-02	6.3959E-02			0.012009	ug/g	6.8993	% RPD	
11	DUP	S1010190130	S10V003308	0 0	A		Lead	SOLID	3.4055E+00	3.2805E+00			0.030023	ug/g	3.7394	% RPD	
11	DUP	S1010190130	S10V003308	0 0	A		Selenium	SOLID	<2.6917E-01	<2.7021E-01			0.27021	ug/g			
11	DUP	S1010190130	S10V003308	0 0	A		Thallium	SOLID	8.1619E-02	7.5317E-02			8.01E-03	ug/g	8.0310	% RPD	
Sample Sequence 12																	
12	SAMPLE	S10V003309		0 0	A		Cadmium	SOLID	N/A	6.8952E-02			0.011981	ug/g			J
12	SAMPLE	S10V003309		0 0	A		Lead	SOLID	N/A	1.3779E+01			0.029953	ug/g			
12	SAMPLE	S10V003309		0 0	A		Selenium	SOLID	N/A	<2.6958E-01			0.26958	ug/g			U
12	SAMPLE	S10V003309		0 0	A		Thallium	SOLID	N/A	7.8787E-02			7.99E-03	ug/g			J
Sample Sequence 13																	
13	SAMPLE	S10V003310		0 0	A		Cadmium	SOLID	N/A	6.8192E-02			0.011997	ug/g			J
13	SAMPLE	S10V003310		0 0	A		Lead	SOLID	N/A	5.4126E+00			0.029992	ug/g			
13	SAMPLE	S10V003310		0 0	A		Selenium	SOLID	N/A	<2.6993E-01			0.26993	ug/g			U
13	SAMPLE	S10V003310		0 0	A		Thallium	SOLID	N/A	6.5863E-02			8.00E-03	ug/g			J
Sample Sequence 14																	
14	SAMPLE	S10V003311		0 0	A		Cadmium	SOLID	N/A	9.4642E-02			0.011871	ug/g			J
14	SAMPLE	S10V003311		0 0	A		Lead	SOLID	N/A	3.7473E+00			0.029678	ug/g			
14	SAMPLE	S10V003311		0 0	A		Selenium	SOLID	N/A	<2.6710E-01			0.2671	ug/g			U
14	SAMPLE	S10V003311		0 0	A		Thallium	SOLID	N/A	5.7753E-02			7.91E-03	ug/g			J
Sample Sequence 15																	
15	SPK-PREDIG	S1010190131	S10V003308	0 0	A		Cadmium	SOLID	49.8852635	5.3986E+01			0.29931	ug/g	108.08	% Recovery	
15	SPK-PREDIG	S1010190131	S10V003308	0 0	A		Lead	SOLID	49.8852635	5.5183E+01			0.74828	ug/g	103.79	% Recovery	
15	SPK-PREDIG	S1010190131	S10V003308	0 0	A		Selenium	SOLID	49.8852635	5.7987E+01			6.7345	ug/g	116.24	% Recovery	
Sample Sequence 16																	
16	SPK-PREDIG	S1010190135	S10V003308	0 0	A		Thallium	SOLID	50.073105	5.0754E+01			0.20029	ug/g	101.2	% Recovery	
Sample Sequence 17																	
17	CCV	S1010280078		0 0			Arsenic	LIQUID	.002	2.0700E-03			6.30E-05	ug/mL	103.5	% Recovery	
17	CCV	S1010280078		0 0			Cadmium	LIQUID	.002	2.0100E-03			9.00E-06	ug/mL	100.5	% Recovery	
17	CCV	S1010280078		0 0			Lead	LIQUID	.002	1.8750E-03			1.50E-05	ug/mL	93.75	% Recovery	
17	CCV	S1010280078		0 0			Selenium	LIQUID	.002	2.1330E-03			1.35E-04	ug/mL	106.65	% Recovery	
18	CCV	S1010280078		0 1			Thallium	LIQUID	.002	1.8880E-03			2.00E-06	ug/mL	94.4	% Recovery	
Sample Sequence 19																	
19	CCB	S1010280079		0 0			Arsenic	LIQUID		<6.3000E-05			6.30E-05	ug/mL			
19	CCB	S1010280079		0 0			Cadmium	LIQUID		<9.0000E-06			9.00E-06	ug/mL			
19	CCB	S1010280079		0 0			Lead	LIQUID		<1.5000E-05			1.50E-05	ug/mL			
19	CCB	S1010280079		0 0			Selenium	LIQUID		<1.3500E-04			1.35E-04	ug/mL			
19	CCB	S1010280079		0 0			Thallium	LIQUID		<2.0000E-06			2.00E-06	ug/mL			
Sample Sequence 20																	
20	SPK-POST	S1010280077	S10V003308	0 0			Cadmium	SOLID	.2	2.1000E-01			6.00E-06	ug/mL	101.56	% Recovery	
20	SPK-POST	S1010280077	S10V003308	0 0			Lead	SOLID	.2	5.4250E-01			1.50E-05	ug/mL	100.45	% Recovery	
20	SPK-POST	S1010280077	S10V003308	0 0			Selenium	SOLID	.2	2.3050E-01			1.35E-04	ug/mL	115.25	% Recovery	
20	SPK-POST	S1010280077	S10V003308	0 0			Thallium	SOLID	.2	2.0790E-01			4.00E-06	ug/mL	99.856	% Recovery	

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LABCORE Completed Batch Report for Batch# 00023628

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 21																	
21	STD-PREP	S1010190129		0 0	A		Cadmium	LIQUID	5	5.1160E+00			0.045	ug/mL	102.32	% Recovery	
21	STD-PREP	S1010190129		0 0	A		Lead	LIQUID	5	4.7070E+00			0.075	ug/mL	94.14	% Recovery	
21	STD-PREP	S1010190129		0 0	A		Selenium	LIQUID	5	5.3940E+00			0.675	ug/mL	107.88	% Recovery	
22	STD-PREP	S1010190129		0 1	A		Thallium	LIQUID	5	4.8980E+00			0.01	ug/mL	97.96	% Recovery	
Sample Sequence 23																	
23	CCV	S1010280080		0 0			Arsenic	LIQUID	.002	2.0760E-03			6.30E-05	ug/mL	103.8	% Recovery	
23	CCV	S1010280080		0 0			Cadmium	LIQUID	.002	2.0390E-03			9.00E-06	ug/mL	101.95	% Recovery	
23	CCV	S1010280080		0 0			Lead	LIQUID	.002	1.8710E-03			1.50E-05	ug/mL	93.55	% Recovery	
23	CCV	S1010280080		0 0			Selenium	LIQUID	.002	2.0640E-03			1.35E-04	ug/mL	103.2	% Recovery	
24	CCV	S1010280080		0 1			Thallium	LIQUID	.002	1.8770E-03			2.00E-06	ug/mL	93.85	% Recovery	
Sample Sequence 25																	
25	LLS	S1010280082		0 0			Arsenic	LIQUID	.0002	2.0880E-04			6.30E-05	ug/mL	104.4	% Recovery	
27	LLS	S1010280082		0 2			Cadmium	LIQUID	.00001	1.1420E-05			9.00E-06	ug/mL	114.2	% Recovery	
26	LLS	S1010280082		0 1			Lead	LIQUID	.0001	9.6130E-05			1.50E-05	ug/mL	96.13	% Recovery	
25	LLS	S1010280082		0 0			Selenium	LIQUID	.0002	3.0380E-04			1.35E-04	ug/mL	151.9	% Recovery	
28	LLS	S1010280082		0 3			Thallium	LIQUID	.00001	9.5630E-06			2.00E-06	ug/mL	95.63	% Recovery	
Sample Sequence 29																	
29	CCB	S1010280081		0 0			Arsenic	LIQUID		<6.3000E-05			6.30E-05	ug/mL			
29	CCB	S1010280081		0 0			Cadmium	LIQUID		<9.0000E-06			9.00E-06	ug/mL			
29	CCB	S1010280081		0 0			Lead	LIQUID		<1.5000E-05			1.50E-05	ug/mL			
29	CCB	S1010280081		0 0			Selenium	LIQUID		<1.3500E-04			1.35E-04	ug/mL			
29	CCB	S1010280081		0 0			Thallium	LIQUID		<2.0000E-06			2.00E-06	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00023628

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00023628

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1010280073	ICV				
2	S1010280073	ICV				
3	S1010280075	LLS				
4	S1010280075	LLS				
5	S1010280075	LLS				
6	S1010280075	LLS				
7	S1010280074	ICB				
8	S1010190128	BLNK-PREP				
9	S1010280076	SERDIL	S10V003308			
10	S10V003308	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
11	S1010190130	DUP	S10V003308			
12	S10V003309	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
13	S10V003310	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
14	S10V003311	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
15	S1010190131	SPK-PREDIG	S10V003308			
16	S1010190135	SPK-PREDIG	S10V003308			
17	S1010280078	CCV				
18	S1010280078	CCV				
19	S1010280079	CCB				
20	S1010280077	SPK-POST	S10V003308			
21	S1010190129	STD-PREP				
22	S1010190129	STD-PREP				
23	S1010280080	CCV				
24	S1010280080	CCV				
25	S1010280082	LLS				
26	S1010280082	LLS				
27	S1010280082	LLS				
28	S1010280082	LLS				
29	S1010280081	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00023807

Analyst: Mull, Bryanna **Book#:**

Instrument: ICP/MS AGILENT

Method: MS PERIODIC TABLE, LA-506-103 Rev/Mod B-0

Specification: C Farm WMC 2010-1

Prep Batch: 00023345

Batch Comment: ICPMS-Agilent for C-Farm WMC 2010 Solids for Arsenic. LND

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1011040038		0 0			Arsenic	LIQUID	.002	1.8650E-03			4.20E-05	ug/mL	93.25	% Recovery	
Sample Sequence 2																	
2	LLS	S1011040040		0 0			Arsenic	LIQUID	.0002	1.7170E-04			4.20E-05	ug/mL	85.85	% Recovery	
Sample Sequence 3																	
3	ICB	S1011040039		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
Sample Sequence 4																	
4	CCV	S1011040043		0 0			Arsenic	LIQUID	.002	1.8130E-03			4.20E-05	ug/mL	90.65	% Recovery	
Sample Sequence 5																	
5	CCB	S1011040044		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			
Sample Sequence 6																	
6	BLNK-PREP	S1010190128		0 1	A		Arsenic	LIQUID		<8.4000E-03			8.40E-03	ug/mL			
Sample Sequence 7																	
7	SAMPLE	S10V003308		0 1	A		Arsenic	SOLID	N/A	2.2890E+00			0.083742	ug/g			
Sample Sequence 8																	
8	DUP	S1010190130	S10V003308	0 1	A		Arsenic	SOLID	2.2890E+00	2.3118E+00			0.084064	ug/g	0.99113	% RPD	
Sample Sequence 9																	
9	SAMPLE	S10V003309		0 1	A		Arsenic	SOLID	N/A	2.9015E+00			0.083869	ug/g			
Sample Sequence 10																	
10	SAMPLE	S10V003310		0 1	A		Arsenic	SOLID	N/A	2.7973E+00			0.083978	ug/g			
Sample Sequence 11																	
11	SAMPLE	S10V003311		0 1	A		Arsenic	SOLID	N/A	2.5938E+00			0.083098	ug/g			
Sample Sequence 12																	
12	STD-PREP	S1010190129		0 2	A		Arsenic	LIQUID	5	4.4415E+00			0.21	ug/mL	88.83	% Recovery	
Sample Sequence 13																	
13	SPK-PREDIG	S1010190131	S10V003308	0 1	A		Arsenic	SOLID	49.8852635	3.9998E+01			0.041904	ug/g	75.591	% Recovery	
Sample Sequence 14																	
14	SPK-POST	S1011040042	S10V003308	0 0			Arsenic	SOLID	.2	4.2460E-01			4.20E-05	ug/g	97.5	% Recovery	
Sample Sequence 15																	
15	CCV	S1011040045		0 0			Arsenic	LIQUID	.002	1.8360E-03			4.20E-05	ug/mL	91.8	% Recovery	
Sample Sequence 16																	
16	LLS	S1011040047		0 0			Arsenic	LIQUID	.0002	1.6850E-04			4.20E-05	ug/mL	84.25	% Recovery	
Sample Sequence 17																	
17	CCB	S1011040046		0 0			Arsenic	LIQUID		<4.2000E-05			4.20E-05	ug/mL			

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00023807

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00023807

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00023807

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1011040038	ICV				
2	S1011040040	LLS				
3	S1011040039	ICB				
4	S1011040043	CCV				
5	S1011040044	CCB				
6	S1010190128	BLNK-PREP				
7	S10V003308	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
8	S1010190130	DUP	S10V003308			
9	S10V003309	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
10	S10V003310	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
11	S10V003311	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
12	S1010190129	STD-PREP				
13	S1010190131	SPK-PREDIG	S10V003308			
14	S1011040042	SPK-POST	S10V003308			
15	S1011040045	CCV				
16	S1011040047	LLS				
17	S1011040046	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00021532

Analyst: Shaw, Levi

Book#:

Instrument: ICP/MS AGILENT

Method: MS TC-99, LA-506-103 Rev/Mod A-0

Specification: C Farm WMC 2010-1

Prep Batch: 00021374

Batch Comment: ICPMS TC99 RUN

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1008240103		0 0			Technetium-99	LIQUID	.001	9.9880E-04			4.00E-07	ug/mL	99.88	% Recovery	
Sample Sequence 2																	
2	LLS	S1008240105		0 0			Technetium-99	LIQUID	.000002	2.0750E-06			4.00E-07	ug/mL	103.75	% Recovery	
Sample Sequence 3																	
3	ICB	S1008240104		0 0			Technetium-99	LIQUID		<4.0000E-07			4.00E-07	ug/mL			
Sample Sequence 4																	
4	BLNK-PREP	S1008180018		0 0	WV		Technetium-99	LIQUID		<4.0000E-06			4.00E-06	ug/mL			
Sample Sequence 5																	
5	SERDIL	S1008240106	S10V001729	0 0			Technetium-99	SOLID		<2.0870E-05			2.09E-05	ug/g	N/A		
Sample Sequence 6																	
6	SAMPLE	S10V001729		0 0	WV		Technetium-99	SOLID	N/A	<4.1741E-06			4.17E-06	ug/g			U
Sample Sequence 7																	
7	DUP	S1008180019	S10V001729	0 0	WV		Technetium-99	SOLID	<4.1741E-06	<4.2576E-06			4.26E-06	ug/g			
Sample Sequence 8																	
8	SAMPLE	S10V001730		0 0	WV		Technetium-99	SOLID	N/A	<4.1472E-06			4.15E-06	ug/g			U
Sample Sequence 9																	
9	SAMPLE	S10V001731		0 0	WV		Technetium-99	SOLID	N/A	<3.8468E-06			3.85E-06	ug/g			U
Sample Sequence 10																	
10	SAMPLE	S10V001732		0 0	WV		Technetium-99	SOLID	N/A	<3.8220E-06			3.82E-06	ug/g			U
Sample Sequence 11																	
11	SAMPLE	S10V001733		0 0	WV		Technetium-99	SOLID	N/A	<3.9037E-06			3.90E-06	ug/g			U
Sample Sequence 12																	
12	SAMPLE	S10V001734		0 0	WV		Technetium-99	SOLID	N/A	<4.1712E-06			4.17E-06	ug/g			U
Sample Sequence 13																	
13	CCV	S1008240109		0 0			Technetium-99	LIQUID	.001	9.8090E-04			4.00E-07	ug/mL	98.09	% Recovery	
Sample Sequence 14																	
14	CCB	S1008240110		0 0			Technetium-99	LIQUID		4.3770E-07			4.00E-07	ug/mL			
Sample Sequence 15																	
15	SAMPLE	S10V001735		0 0	WV		Technetium-99	SOLID	N/A	1.5666E-04			3.79E-06	ug/g			
Sample Sequence 16																	
16	SAMPLE	S10V001736		0 0	WV		Technetium-99	SOLID	N/A	<3.7841E-06			3.78E-06	ug/g			U
Sample Sequence 17																	
17	SAMPLE	S10V001737		0 0	WV		Technetium-99	SOLID	N/A	<3.8676E-06			3.87E-06	ug/g			U

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00021532

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 18																	
18	SPK-POST	S1008240108	S10V001729	0 0			Technetium-99	SOLID	.002	1.8150E-03			4.00E-07	ug/g	90.75	% Recovery	
Sample Sequence 19																	
19	STD-PREP	S1008180017		0 0	WV		Technetium-99	LIQUID	.0010144955	1.0856E-03			8.00E-07	ug/mL	107.01	% Recovery	
Sample Sequence 20																	
20	CCV	S1008240111		0 0			Technetium-99	LIQUID	.001	1.0060E-03			4.00E-07	ug/mL	100.6	% Recovery	
Sample Sequence 21																	
21	LLS	S1008240113		0 0			Technetium-99	LIQUID	.000002	1.9330E-06			4.00E-07	ug/mL	96.65	% Recovery	
Sample Sequence 22																	
22	CCB	S1008240112		0 0			Technetium-99	LIQUID		<4.0000E-07			4.00E-07	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00021532

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00021532

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1008240103	ICV				
2	S1008240105	LLS				
3	S1008240104	ICB				
4	S1008180018	BLNK-PREP				
5	S1008240106	SERDIL	S10V001729			
6	S10V001729	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
7	S1008180019	DUP	S10V001729			
8	S10V001730	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
9	S10V001731	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
10	S10V001732	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
11	S10V001733	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
12	S10V001734	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
13	S1008240109	CCV				
14	S1008240110	CCB				
15	S10V001735	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
16	S10V001736	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
17	S10V001737	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
18	S1008240108	SPK-POST	S10V001729			
19	S1008180017	STD-PREP				
20	S1008240111	CCV				
21	S1008240113	LLS				
22	S1008240112	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

Date: 12 May 2011
To: CH2M Hill (technical representative)
From: Analytical Quality Associates, Inc.
Project: WMA C (C7670)
Subject: General Chemistry - Sample Data Group (SDG) 20100213

INTRODUCTION

This memorandum presents the results of data validation for SDG 20100213 prepared by 222-S Laboratory. A list of samples validated along with the analytical methods is provided in the following table.

Sample ID	Sample Date	Media	Validation Level	Analytical Methods
B23R25	4/15/2010	Soil	C	See note 1
B23KN7	4/15/2010	Soil	C	See note 1
B238J9	4/20/2010	Soil	C	See note 1
B25CN2	4/22/2010	Soil	C	See note 1
B23KP6	4/22/2010	Soil	C	See note 1
B23KP9	4/23/2010	Soil	C	See note 1
B23KR2	5/4/2010	Soil	C	See note 1
B23KR5	5/5/2010	Soil	C	See note 1
B25ND7	5/7/2010	Soil	C	See note 1

1 – 300.7 (ammonium), 9014 (cyanide), 9045D (pH), 9056 (anions) and 9215 (sulfide)

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 soil samples are as follows:

- All anions – analysis within 48 hours of sample preparation
- Ammonium – analysis within 7 days of sample collection

- pH – analysis as soon as possible after sample collection (24 hours is a reasonable limit)
- Sulfide – analysis within 7 days of sample collection
- Cyanide – analysis within 14 days of sample collection

Sample preservation for soil requires chilling to approximately 4 degrees Celsius.

The samples were analyzed within the prescribed holding times and properly preserved with the following exceptions. All samples were analyzed for pH 1.9 to 13.6 days after sample collection. Based on professional judgment all pH results should be qualified as estimates and flagged "J."

- **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 batch 19029, the ammonium laboratory blank results were > the method detection limits (MDLs). The ammonium results for samples B23R25, B23KN7 and B238J9 were detects <5X the laboratory blank results and should be qualified as non-detects at the sample concentrations (2.97 ug/g, 2.75 ug/g and 0.729 ug/g, respectively) and flagged "U."

For batch 22897, the nitrite laboratory blank result was > the MDL. The nitrite results for samples B23R25 and B23KN7 were detects <5X the laboratory blank result and should be qualified as non-detects at the sample concentrations (1.40 ug/g and 0.643 ug/g, respectively) and flagged "U."

Trip Blanks

No trip blanks were submitted for validation.

Field Blanks

No field blanks were submitted for validation.

Equipment Blanks

No equipment blanks were submitted for validation.

- **Accuracy**

Accuracy is evaluated by reviewing matrix spike sample results and laboratory control sample results. According to the SAP, the matrix spike sample accuracy limits are 75% to 125% and the

laboratory control sample accuracy limits are 80% to 120%. The limits for reported analytes not listed in the SAP are specified by the DV procedure.

Matrix Spike (MS) Samples

All MS recoveries were acceptable.

Laboratory Control Samples (LCSs)

All LCS recoveries were acceptable.

- **Precision**

Precision is evaluated by reviewing 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%. The limits for reported analytes not listed in the SAP are specified by the DV procedure. When soil duplicate RPDs exceed the limits and have associated results <5X the SAP required detection limits with differences <2X the required detection limits no precision infraction occurred.

Laboratory Duplicate Samples

All laboratory duplicate results were acceptable.

Field Duplicate Samples

All field duplicate results were acceptable.

Field Split Samples

No field splits were submitted for validation.

- **Detection Limits**

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

All reported sample MDLs with associated non-detected sample results were below the RDLs.

- **Completeness**

SDG 20100213 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 all pH sample result as estimates were due to holding time infractions. A minor deficiency leading to qualification of ammonium results for samples B23R25 and B23KN7 as non-detects was due to a laboratory blank infraction.

REFERENCES

GRP-GD-003, Rev. 0, Change 0, *Data Validation for Chemical Analyses*, August 2010.

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

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

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

- **N** — The analysis indicates the presence of an analyte that has been tentatively identified.

- **NJ** — The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

- **NJ+** — The analysis indicates the presence of an analyte that has been tentatively identified. The associated value is estimated with a suspected positive bias due to a quality control deficiency identified during data validation.

- **NJ-** — The analysis indicates the presence of an analyte that has been tentatively identified. The associated value is estimated with a suspected negative bias due to a quality control deficiency identified during data validation.

- **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

General Chemistry Data Qualification Summary			
SDG: 20100213	Reviewer: AQA	Project: WMA C (C7670)	Page 1 of 1
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
pH	J	All samples	Analysis beyond the holding time
Ammonium	2.97U	B23R25	Lab blank contamination
Ammonium	2.75U	B23KN7	Lab blank contamination
Ammonium	0.729U	B238J9	Lab blank contamination
Nitrite	1.40U	B23R25	Lab blank contamination
Nitrite	0.643U	B23KN7	Lab blank contamination

Comments: None

Appendix 3

Annotated Laboratory Reports

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000401~~			~~%WATERA~~	~~%WATER-APD~~	~~%~~	~~n/a~~	~~n/a~~	~~8.090~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.01000~~	~~n/a~~	
S10V000401			57-12-5	Cyanide	ug/g	97.0	<0.0370	<2.35	<2.33	n/a	n/a	96.9	2.35	n/a	U
~~S10V000401~~			~~7439-97-6~~	~~Mercury~~	~~ug/g~~	~~102~~	~~<1.00E-04~~	~~<8.65E-03~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~8.65E-03~~	~~n/a~~	~~U~~
S10V000401			PH	pH J	unitless	n/a	n/a	8.84	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000401			18496-25-8	Sulfide	ug/g	89.6	<0.180	27.3	25.6	26.4	6.57	81.8	7.20	n/a	J
~~S10V000418~~		~~O~~	~~120-82-1~~	~~1,2,4-Trichlorobenzene~~	~~ug/kg~~	~~66.6~~	~~<77.4~~	~~<76.5~~	~~n/a~~	~~n/a~~	~~n/a~~	~~77.7~~	~~76.5~~	~~n/a~~	~~U~~
S10V000418		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.6	n/a	n/a	n/a	n/a	99.6	n/a	U
S10V000418		O	121-14-2	2,4-Dinitrotoluene	ug/kg	87.3	<38.1	<37.7	n/a	n/a	n/a	97.2	37.7	n/a	U
S10V000418		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S10V000418		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S10V000418		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S10V000418		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.1	n/a	n/a	n/a	n/a	53.1	n/a	U
S10V000418		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V000418		O	83-32-9	Acenaphthene	ug/kg	72.2	<17.6	<17.4	n/a	n/a	n/a	84.3	17.4	n/a	U
S10V000418		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S10V000418		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S10V000418		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.7	n/a	n/a	n/a	n/a	40.7	n/a	U
S10V000418		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<584	n/a	n/a	n/a	n/a	584	n/a	U
S10V000418		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.7	n/a	n/a	n/a	n/a	38.7	n/a	U
S10V000418		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V000418		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.5	<43.2	<42.7	n/a	n/a	n/a	84.5	42.7	n/a	U
S10V000418		O	95-57-8	2-Chlorophenol	ug/kg	68.6	<66.5	<65.8	n/a	n/a	n/a	81.5	65.8	n/a	U
S10V000418		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.5	n/a	n/a	n/a	n/a	80.5	n/a	U
S10V000418		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S10V000418		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V000418		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S10V000418		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.1	<58.1	<57.5	n/a	n/a	n/a	75.4	57.5	n/a	U
~~S10V000418~~		~~O~~	~~206-44-0~~	~~Fluoranthene~~	~~ug/kg~~	~~n/a~~	~~<35.4~~	~~<35.0~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~35.0~~	~~n/a~~	~~U~~

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000418		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.9	n/a	n/a	n/a	n/a	68.9	n/a	U
S10V000418		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V000418		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S10V000418		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S10V000418		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S10V000418		O	129-00-0	Pyrene	ug/kg	93.9	<62.9	<62.2	n/a	n/a	n/a	95.8	62.2	n/a	U
S10V000418		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S10V000418		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V000418		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S10V000418		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S10V000418		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V000418		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<552	n/a	n/a	n/a	n/a	552	n/a	U
S10V000418		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S10V000418		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
S10V000419		W	16984-48-8	Fluoride	ug/g	103	<1.61E-03	1.04	n/a	n/a	n/a	n/a	0.0160	n/a	
S10V000419		W	666-14-8	Glycolate	ug/g	101	<9.37E-03	<0.0930	n/a	n/a	n/a	n/a	0.0930	n/a	U
S10V000419		W	71-50-1	Acetate	ug/g	98.8	<6.04E-03	0.163	n/a	n/a	n/a	n/a	0.0599	n/a	J
S10V000419		W	12311-97-6	Formate	ug/g	102	<4.67E-03	0.564	n/a	n/a	n/a	n/a	0.0463	n/a	J
S10V000419		W	16887-00-6	Chloride	ug/g	100	<9.98E-03	1.23	n/a	n/a	n/a	n/a	0.0990	n/a	
S10V000419		W	14797-65-0	Nitrite 1.40U	ug/g	100	0.0449	1.40	n/a	n/a	n/a	n/a	0.190	n/a	BJ
S10V000419		W	14808-79-8	Sulfate	ug/g	102	<0.0187	2.76	n/a	n/a	n/a	n/a	0.186	n/a	J
S10V000419		W	338-70-5	Oxalate	ug/g	101	<0.0231	0.472	n/a	n/a	n/a	n/a	0.229	n/a	J
S10V000419		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.575	n/a	n/a	n/a	n/a	0.575	n/a	U
S10V000419		W	14797-55-8	Nitrate	ug/g	101	<0.0208	4.08	n/a	n/a	n/a	n/a	0.206	n/a	
S10V000419		W	14265-44-2	Phosphate	ug/g	101	<0.0167	0.552	n/a	n/a	n/a	n/a	0.166	n/a	J
S10V000420		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.58E+03	6.93E+03	6.75E+03	5.17	1.94E+03	3.28	n/a	
S10V000420		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	86.3	87.3	86.8	1.08	106	0.328	n/a	
S10V000420		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.216	0.208	0.212	3.79	101	0.109	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000420		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.19E-05	<2.07E-05	n/a	n/a	n/a	2.19E-05	n/a	U
S10V000420		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	3.83E-03	4.56E-03	4.19E-03	17.6	88.6	4.81E-05	n/a	
S10V000420		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	2.07E-05	<1.65E-05	n/a	n/a	n/a	1.75E-05	n/a	J
S10V000420		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.32E-04	<2.19E-04	n/a	n/a	106	2.32E-04	n/a	U
S10V000420		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.558	0.660	0.609	16.7	94.5	2.41E-03	n/a	
S10V000420		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0875	0.121	n/a	n/a	108	0.0875	n/a	U
S10V000420		A	7440-38-2	Arsenic	ug/g	112	<0.0420	3.91	3.94	3.92	0.855	95.6	0.460	n/a	
S10V000420		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.101	0.0862	0.0937	16.0	110	0.0328	n/a	
S10V000420		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.667	<0.631	n/a	n/a	101	0.667	n/a	U
S10V000420		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0994	0.0917	0.0956	8.05	95.7	6.57E-03	n/a	B
S10V000421		S	14798-03-9	Ammonium 2.97U	ug/g	95.4	0.183	2.97	n/a	n/a	n/a	n/a	0.474	n/a	BJ
S10V000422		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.52E-04	<3.43E-04	n/a	n/a	101	3.52E-04	n/a	U
S10V000422		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0174	0.0166	0.0170	4.90	58.6	0.0109	n/a	Jb
S10V000422		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.17E-04	2.51E-04	2.34E-04	14.9	n/a	1.98E-04	n/a	Jb
S10V000571			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	8.59E-06	n/a	n/a	n/a	n/a	6.33E-06	47.38	J
S10V000571			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.33E-07	n/a	n/a	n/a	n/a	3.33E-07	n/a	U
S10V000571			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<1.00E-06	n/a	n/a	n/a	n/a	1.00E-06	n/a	U
S10V000571			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	7.52E-06	n/a	n/a	n/a	n/a	3.73E-07	7.59	
S10V000571			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.59E-06	n/a	n/a	n/a	n/a	1.59E-06	n/a	U
S10V000571			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<1.02E-06	n/a	n/a	n/a	n/a	1.02E-06	n/a	U
S10V000571			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<5.72E-07	n/a	n/a	n/a	n/a	5.72E-07	n/a	U
S10V000571			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	1.06E-06	n/a	n/a	n/a	n/a	8.95E-07	26.21	
S10V000571			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<1.08E-05	n/a	n/a	n/a	n/a	1.08E-05	n/a	U
S10V000571			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<3.65E-06	n/a	n/a	n/a	n/a	3.65E-06	n/a	U
S10V000571			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<1.70E-07	n/a	n/a	n/a	n/a	1.70E-07	n/a	U
S10V000572		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<1.63E-07	n/a	n/a	n/a	n/a	1.63E-07	n/a	U
S10V000572		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.07E-07	n/a	n/a	n/a	n/a	4.07E-07	n/a	U
S10V000572		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<1.63E-07	n/a	n/a	n/a	n/a	1.63E-07	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000402			%WATERA	%WATER-APD	%	n/a	n/a	7.320	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000402			57-12-5	Cyanide	ug/g	97.0	<0.0370	<2.46	n/a	n/a	n/a	n/a	2.46	n/a	U
S10V000402			7439-97-6	Mercury	ug/g	102	<1.00E-04	<8.63E-03	n/a	n/a	n/a	n/a	8.63E-03	n/a	U
S10V000402			PH	pH J	unitless	n/a	n/a	8.15	8.63	8.39	5.72	n/a	0.0100	n/a	
S10V000402			18496-25-8	Sulfide	ug/g	89.6	<0.180	34.8	n/a	n/a	n/a	n/a	7.23	n/a	J
S10V000575			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.46E-05	n/a	n/a	n/a	n/a	6.68E-06	30.93	J
S10V000575			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.54E-07	n/a	n/a	n/a	n/a	3.54E-07	n/a	U
S10V000575			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<9.75E-07	n/a	n/a	n/a	n/a	9.75E-07	n/a	U
S10V000575			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	5.40E-06	n/a	n/a	n/a	n/a	4.06E-07	8.93	
S10V000575			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.49E-06	n/a	n/a	n/a	n/a	1.49E-06	n/a	U
S10V000575			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<1.10E-06	n/a	n/a	n/a	n/a	1.10E-06	n/a	U
S10V000575			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<5.91E-07	n/a	n/a	n/a	n/a	5.91E-07	n/a	U
S10V000575			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	5.33E-07	n/a	n/a	n/a	n/a	6.25E-07	47.66	Jc
S10V000575			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	7.51E-07	n/a	n/a	n/a	n/a	8.51E-07	44.49	J
S10V000575			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<1.10E-05	n/a	n/a	n/a	n/a	1.10E-05	n/a	U
S10V000575			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<3.66E-06	n/a	n/a	n/a	n/a	3.66E-06	n/a	U
S10V000575			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.14E-07	n/a	n/a	n/a	n/a	2.14E-07	n/a	U
S10V000576		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.6	<77.4	<69.7	n/a	n/a	n/a	n/a	69.7	n/a	U
S10V000576		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<90.6	n/a	n/a	n/a	n/a	90.6	n/a	U
S10V000576		O	121-14-2	2,4-Dinitrotoluene	ug/kg	87.3	<38.1	<34.3	n/a	n/a	n/a	n/a	34.3	n/a	U
S10V000576		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<39.6	n/a	n/a	n/a	n/a	39.6	n/a	U
S10V000576		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<44.6	n/a	n/a	n/a	n/a	44.6	n/a	U
S10V000576		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<51.8	n/a	n/a	n/a	n/a	51.8	n/a	U
S10V000576		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U
S10V000576		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<46.3	n/a	n/a	n/a	n/a	46.3	n/a	U
S10V000576		O	83-32-9	Acenaphthene	ug/kg	72.2	<17.6	<15.8	n/a	n/a	n/a	n/a	15.8	n/a	U
S10V000576		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<34.0	n/a	n/a	n/a	n/a	34.0	n/a	U
S10V000576		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000576		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S10V000576		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<531	n/a	n/a	n/a	n/a	531	n/a	U
S10V000576		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<35.2	n/a	n/a	n/a	n/a	35.2	n/a	U
S10V000576		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<45.0	n/a	n/a	n/a	n/a	45.0	n/a	U
S10V000576		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.5	<43.2	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S10V000576		O	95-57-8	2-Chlorophenol	ug/kg	68.6	<66.5	<59.9	n/a	n/a	n/a	n/a	59.9	n/a	U
S10V000576		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<73.3	n/a	n/a	n/a	n/a	73.3	n/a	U
S10V000576		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<46.0	n/a	n/a	n/a	n/a	46.0	n/a	U
S10V000576		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<506	n/a	n/a	n/a	n/a	506	n/a	U
S10V000576		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<42.9	n/a	n/a	n/a	n/a	42.9	n/a	U
S10V000576		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.1	<58.1	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S10V000576		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<31.9	n/a	n/a	n/a	n/a	31.9	n/a	U
S10V000576		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<62.7	n/a	n/a	n/a	n/a	62.7	n/a	U
S10V000576		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V000576		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<45.9	n/a	n/a	n/a	n/a	45.9	n/a	U
S10V000576		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<56.3	n/a	n/a	n/a	n/a	56.3	n/a	U
S10V000576		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<58.1	n/a	n/a	n/a	n/a	58.1	n/a	U
S10V000576		O	129-00-0	Pyrene	ug/kg	93.9	<62.9	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S10V000576		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<58.5	n/a	n/a	n/a	n/a	58.5	n/a	U
S10V000576		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<97.0	n/a	n/a	n/a	n/a	97.0	n/a	U
S10V000576		O	128-37-0	BHT	ug/kg	n/a	<236	<212	n/a	n/a	n/a	n/a	212	n/a	U
S10V000576		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<164	n/a	n/a	n/a	n/a	164	n/a	U
S10V000576		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<95.9	n/a	n/a	n/a	n/a	95.9	n/a	U
S10V000576		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<502	n/a	n/a	n/a	n/a	502	n/a	U
S10V000576		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<172	n/a	n/a	n/a	n/a	172	n/a	U
S10V000576		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<414	n/a	n/a	n/a	n/a	414	n/a	U
S10V000577		W	14762-75-5	Carbon-14	uCi/g	93.5	<2.60E-07	<2.83E-06	n/a	n/a	n/a	n/a	2.83E-06	n/a	U
S10V000577		W	16984-48-8	Fluoride	ug/g	103	<1.61E-03	1.36	n/a	n/a	n/a	n/a	0.0161	n/a	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000577		W	666-14-8	Glycolate	ug/g	101	<9.37E-03	<0.0936	n/a	n/a	n/a	n/a	0.0936	n/a	U
S10V000577		W	71-50-1	Acetate	ug/g	98.8	<6.04E-03	<0.0603	n/a	n/a	n/a	n/a	0.0603	n/a	U
S10V000577		W	12311-97-6	Formate	ug/g	102	<4.67E-03	0.311	n/a	n/a	n/a	n/a	0.0467	n/a	J
S10V000577		W	16887-00-6	Chloride	ug/g	100	<9.98E-03	0.417	n/a	n/a	n/a	n/a	0.0997	n/a	J
S10V000577		W	14797-65-0	Nitrite 0.643U	ug/g	100	0.0449	0.643	n/a	n/a	n/a	n/a	0.192	n/a	BJ
S10V000577		W	14808-79-8	Sulfate	ug/g	102	<0.0187	2.00	n/a	n/a	n/a	n/a	0.187	n/a	J
S10V000577		W	338-70-5	Oxalate	ug/g	101	<0.0231	0.405	n/a	n/a	n/a	n/a	0.231	n/a	J
S10V000577		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.579	n/a	n/a	n/a	n/a	0.579	n/a	U
S10V000577		W	14797-55-8	Nitrate	ug/g	101	<0.0208	2.07	n/a	n/a	n/a	n/a	0.208	n/a	J
S10V000577		W	14265-44-2	Phosphate	ug/g	101	<0.0167	0.512	n/a	n/a	n/a	n/a	0.167	n/a	J
S10V000578		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.71E+03	n/a	n/a	n/a	n/a	3.16	n/a	
S10V000578		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	83.8	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000578		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.191	n/a	n/a	n/a	n/a	0.105	n/a	J
S10V000578		A	7440-70-2	Calcium	ug/g	91.3	0.586	1.11E+04	n/a	n/a	n/a	n/a	5.27	n/a	
S10V000578		A	7440-45-1	Cerium	ug/g	98.1	<0.0300	20.8	n/a	n/a	n/a	n/a	3.16	n/a	J
S10V000578		A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	8.81	n/a	n/a	n/a	n/a	1.05	n/a	J
S10V000578		A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	7.57	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	11.4	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7439-89-6	Iron	ug/g	93.8	0.0228	2.01E+04	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-09-7	Potassium	ug/g	102	<0.500	1.33E+03	n/a	n/a	n/a	n/a	52.7	n/a	
S10V000578		A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	9.22	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000578		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	7.08	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000578		A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	4.85E+03	n/a	n/a	n/a	n/a	5.27	n/a	
S10V000578		A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	337	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000578		A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	<2.11	n/a	n/a	n/a	n/a	2.11	n/a	U
S10V000578		A	7440-23-5	Sodium	ug/g	98.1	<0.100	201	n/a	n/a	n/a	n/a	10.5	n/a	b
S10V000578		A	7440-02-0	Nickel	ug/g	92.8	<0.0200	11.5	n/a	n/a	n/a	n/a	2.11	n/a	J
S10V000578		A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	889	n/a	n/a	n/a	n/a	5.27	n/a	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000578		A	7704-34-9	Sulfur	ug/g	94.7	<0.100	61.9	n/a	n/a	n/a	n/a	10.5	n/a	J
S10V000578		A	7440-21-3	Silicon	ug/g	85.0	<0.0300	172	n/a	n/a	n/a	n/a	3.16	n/a	b
S10V000578		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	33.3	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000578		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	1.10E+03	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	37.9	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	9.91	n/a	n/a	n/a	n/a	0.211	n/a	
S10V000578		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	36.8	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	2.88	n/a	n/a	n/a	n/a	0.527	n/a	BJb
S10V000578		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<2.95E-05	n/a	n/a	n/a	n/a	2.95E-05	n/a	U
S10V000578		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	5.32	n/a	n/a	n/a	n/a	7.16E-04	n/a	b
S10V000578		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	2.16E-04	n/a	n/a	n/a	n/a	4.21E-05	n/a	J
S10V000578		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	4.14E-05	n/a	n/a	n/a	n/a	2.11E-05	n/a	J
S10V000578		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	6.60E-03	n/a	n/a	n/a	n/a	4.63E-05	n/a	
S10V000578		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	1.98E-05	n/a	n/a	n/a	n/a	1.69E-05	n/a	J
S10V000578		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.23E-04	n/a	n/a	n/a	n/a	2.23E-04	n/a	U
S10V000578		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.974	n/a	n/a	n/a	n/a	2.32E-03	n/a	
S10V000578		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0843	n/a	n/a	n/a	99.0	0.0843	n/a	U
S10V000578		A	7440-38-2	Arsenic	ug/g	112	<0.0420	4.52	n/a	n/a	n/a	n/a	0.442	n/a	
S10V000578		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.0892	n/a	n/a	n/a	n/a	0.0316	n/a	
S10V000578		A	7439-92-1	Lead	ug/g	101	<0.0310	6.28	n/a	n/a	n/a	n/a	0.327	n/a	
S10V000578		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.643	n/a	n/a	n/a	88.6	0.643	n/a	U
S10V000578		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0852	n/a	n/a	n/a	n/a	6.32E-03	n/a	B
S10V000579		S	14798-03-9	Ammonium 2.75U	ug/g	95.4	0.183	2.75	n/a	n/a	n/a	n/a	0.475	n/a	BJ
S10V000624		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.28E-04	n/a	n/a	n/a	n/a	3.28E-04	n/a	U
S10V000624		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0181	n/a	n/a	n/a	n/a	0.0102	n/a	Jb
S10V000624		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.79E-04	n/a	n/a	n/a	n/a	1.85E-04	n/a	Jb
S10V000625		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<1.82E-07	n/a	n/a	n/a	n/a	1.82E-07	n/a	U
S10V000625		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.56E-07	n/a	n/a	n/a	n/a	4.56E-07	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000403			%WATERA	%WATER-APD	%	n/a	n/a	3.690	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000403			57-12-5	Cyanide	ug/g	97.0	<0.0370	<2.48	n/a	n/a	n/a	n/a	2.48	n/a	U
S10V000403			7439-97-6	Mercury	ug/g	102	<1.00E-04	<9.34E-03	n/a	n/a	n/a	n/a	9.34E-03	n/a	U
S10V000403			PH	pH J	unitless	n/a	n/a	8.46	8.53	8.50	0.824	n/a	0.0100	n/a	
S10V000403			18496-25-8	Sulfide	ug/g	108	<0.180	21.3	23.3	22.3	8.86	105	7.09	n/a	J
S10V000412			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.05	n/a	n/a	n/a	n/a	n/a	n/a	
S10V000623			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.22E-05	n/a	n/a	n/a	n/a	5.37E-06	29.82	
S10V000623			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.03E-07	n/a	n/a	n/a	n/a	3.03E-07	n/a	U
S10V000623			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<7.19E-07	n/a	n/a	n/a	n/a	7.19E-07	n/a	U
S10V000623			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.39E-07	n/a	n/a	n/a	n/a	3.39E-07	n/a	U
S10V000623			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.19E-06	n/a	n/a	n/a	n/a	1.19E-06	n/a	U
S10V000623			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.71E-07	n/a	n/a	n/a	n/a	8.71E-07	n/a	U
S10V000623			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.51E-07	n/a	n/a	n/a	n/a	4.51E-07	n/a	U
S10V000623			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	6.64E-07	n/a	n/a	n/a	n/a	5.80E-07	38.19	J
S10V000623			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.31E-06	n/a	n/a	n/a	n/a	8.31E-06	n/a	U
S10V000623			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.85E-06	n/a	n/a	n/a	n/a	2.85E-06	n/a	U
S10V000623			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.32E-07	n/a	n/a	n/a	n/a	2.32E-07	n/a	U
S10V000628		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.6	<77.4	<76.6	n/a	n/a	n/a	n/a	76.6	n/a	U
S10V000628		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.6	n/a	n/a	n/a	n/a	99.6	n/a	U
S10V000628		O	121-14-2	2,4-Dinitrotoluene	ug/kg	87.3	<38.1	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V000628		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S10V000628		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S10V000628		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S10V000628		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.1	n/a	n/a	n/a	n/a	53.1	n/a	U
S10V000628		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V000628		O	83-32-9	Acenaphthene	ug/kg	72.2	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S10V000628		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S10V000628		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000628		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.8	n/a	n/a	n/a	n/a	40.8	n/a	U
S10V000628		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<584	n/a	n/a	n/a	n/a	584	n/a	U
S10V000628		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.7	n/a	n/a	n/a	n/a	38.7	n/a	U
S10V000628		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S10V000628		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.5	<43.2	<42.7	n/a	n/a	n/a	n/a	42.7	n/a	U
S10V000628		O	95-57-8	2-Chlorophenol	ug/kg	68.6	<66.5	<65.8	n/a	n/a	n/a	n/a	65.8	n/a	U
S10V000628		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.5	n/a	n/a	n/a	n/a	80.5	n/a	U
S10V000628		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S10V000628		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V000628		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S10V000628		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.1	<58.1	<57.5	n/a	n/a	n/a	n/a	57.5	n/a	U
S10V000628		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.0	n/a	n/a	n/a	n/a	35.0	n/a	U
S10V000628		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.9	n/a	n/a	n/a	n/a	68.9	n/a	U
S10V000628		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V000628		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S10V000628		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S10V000628		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S10V000628		O	129-00-0	Pyrene	ug/kg	93.9	<62.9	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S10V000628		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S10V000628		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V000628		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S10V000628		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S10V000628		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V000628		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<552	n/a	n/a	n/a	n/a	552	n/a	U
S10V000628		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S10V000628		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
S10V000629		W	14762-75-5	Carbon-14	uCi/g	93.5	<2.60E-07	<2.71E-06	<2.73E-06	n/a	n/a	n/a	2.71E-06	n/a	U
S10V000629		W	16984-48-8	Fluoride	ug/g	98.5	<1.61E-03	1.11	1.21	1.16	8.50	n/a	0.0170	n/a	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000629		W	666-14-8	Glycolate	ug/g	93.7	<9.37E-03	<0.0987	<0.0995	n/a	n/a	n/a	0.0987	n/a	U
S10V000629		W	71-50-1	Acetate	ug/g	92.9	<6.04E-03	0.528	0.675	0.601	24.4	n/a	0.0636	n/a	J
S10V000629		W	12311-97-6	Formate	ug/g	96.2	<4.67E-03	0.740	0.740	0.740	0.0919	n/a	0.0492	n/a	J
S10V000629		W	16887-00-6	Chloride	ug/g	100	<9.98E-03	0.560	0.633	0.597	12.3	n/a	0.105	n/a	J
S10V000629		W	14797-65-0	Nitrite	ug/g	100	<0.0192	2.42	2.31	2.37	4.52	n/a	0.202	n/a	J
S10V000629		W	14808-79-8	Sulfate	ug/g	99.5	<0.0187	7.35	5.89	6.62	22.1	n/a	0.197	n/a	
S10V000629		W	338-70-5	Oxalate	ug/g	99.4	<0.0231	3.21	1.70	2.45	61.4	n/a	0.243	n/a	c
S10V000629		W	24959-67-9	Bromide	ug/g	99.4	<0.0580	<0.611	<0.616	n/a	n/a	n/a	0.611	n/a	U
S10V000629		W	14797-55-8	Nitrate	ug/g	98.0	<0.0208	5.87	5.93	5.90	1.07	n/a	0.219	n/a	
S10V000629		W	14265-44-2	Phosphate	ug/g	97.3	<0.0167	0.955	1.06	1.01	10.5	n/a	0.176	n/a	J
S10V000630		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	5.59E+03	n/a	n/a	n/a	n/a	3.13	n/a	
S10V000630		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	70.1	n/a	n/a	n/a	n/a	0.313	n/a	
S10V000630		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.144	n/a	n/a	n/a	n/a	0.104	n/a	J
S10V000630		A	7440-69-9	Bismuth	ug/g	91.8	<0.100	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
S10V000630		A	7440-70-2	Calcium	ug/g	91.3	0.586	7.36E+03	n/a	n/a	n/a	n/a	5.22	n/a	
S10V000630		A	7440-45-1	Cerium	ug/g	98.1	<0.0300	19.1	n/a	n/a	n/a	n/a	3.13	n/a	J
S10V000630		A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	5.32	n/a	n/a	n/a	n/a	1.04	n/a	J
S10V000630		A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	10.6	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	11.0	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7439-89-6	Iron	ug/g	93.8	0.0228	1.60E+04	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-09-7	Potassium	ug/g	102	<0.500	945	n/a	n/a	n/a	n/a	52.2	n/a	
S10V000630		A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	8.28	n/a	n/a	n/a	n/a	0.313	n/a	
S10V000630		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	6.32	n/a	n/a	n/a	n/a	0.313	n/a	
S10V000630		A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	4.00E+03	n/a	n/a	n/a	n/a	5.22	n/a	
S10V000630		A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	241	n/a	n/a	n/a	n/a	0.313	n/a	
S10V000630		A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	<2.09	n/a	n/a	n/a	n/a	2.09	n/a	U
S10V000630		A	7440-23-5	Sodium	ug/g	98.1	<0.100	286	n/a	n/a	n/a	n/a	10.4	n/a	b
S10V000630		A	7440-02-0	Nickel	ug/g	92.8	<0.0200	10.6	n/a	n/a	n/a	n/a	2.09	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000630		A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	799	n/a	n/a	n/a	n/a	5.22	n/a	
S10V000630		A	7704-34-9	Sulfur	ug/g	94.7	<0.100	45.2	n/a	n/a	n/a	n/a	10.4	n/a	J
S10V000630		A	7440-21-3	Silicon	ug/g	85.0	<0.0300	105	n/a	n/a	n/a	n/a	3.13	n/a	b
S10V000630		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	28.1	n/a	n/a	n/a	n/a	0.313	n/a	
S10V000630		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	883	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	32.0	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	9.21	n/a	n/a	n/a	n/a	0.209	n/a	
S10V000630		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	28.3	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	1.28	n/a	n/a	n/a	n/a	0.522	n/a	BJb
S10V000630		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	4.92E-05	n/a	n/a	n/a	n/a	2.93E-05	n/a	BJ
S10V000630		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	2.35	n/a	n/a	n/a	n/a	2.09E-03	n/a	
S10V000630		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.15E-04	n/a	n/a	n/a	n/a	4.18E-05	n/a	J
S10V000630		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.09E-05	n/a	n/a	n/a	n/a	2.09E-05	n/a	U
S10V000630		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	3.08E-03	n/a	n/a	n/a	n/a	4.18E-05	n/a	
S10V000630		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.67E-05	n/a	n/a	n/a	n/a	1.67E-05	n/a	U
S10V000630		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<4.18E-04	n/a	n/a	n/a	n/a	4.18E-04	n/a	U
S10V000630		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.444	n/a	n/a	n/a	n/a	2.09E-03	n/a	
S10V000630		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000630		A	7440-38-2	Arsenic	ug/g	112	<0.0420	2.20	n/a	n/a	n/a	n/a	0.439	n/a	
S10V000630		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.0611	n/a	n/a	n/a	n/a	0.0313	n/a	
S10V000630		A	7439-92-1	Lead	ug/g	101	<0.0310	3.08	n/a	n/a	n/a	n/a	0.324	n/a	
S10V000630		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000630		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0634	n/a	n/a	n/a	n/a	6.27E-03	n/a	B
S10V000631		S	14798-03-9	Ammonium 0.729U	ug/g	90.5	0.195	0.729	0.960	0.845	27.3	94.8	0.476	n/a	BJ
S10V000632		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.16E-04	n/a	n/a	n/a	n/a	3.16E-04	n/a	U
S10V000632		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0134	n/a	n/a	n/a	n/a	0.0110	n/a	Jb
S10V000632		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	<2.00E-04	n/a	n/a	n/a	n/a	2.00E-04	n/a	Ub
S10V000633		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000404			%WATERA	%WATER-APD	%	n/a	n/a	3.890	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000404			57-12-5	Cyanide	ug/g	99.5	<0.0370	<2.85	<2.79	n/a	n/a	98.4	2.85	n/a	U
S10V000404			7439-97-6	Mercury	ug/g	102	<1.00E-04	0.0102	n/a	n/a	n/a	n/a	8.98E-03	n/a	J
S10V000404			PH	pH J	unitless	n/a	n/a	9.33	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000404			18496-25-8	Sulfide	ug/g	106	<0.180	17.9	17.9	17.9	0.309	111	7.11	n/a	J
S10V000636			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.34E-05	n/a	n/a	n/a	n/a	5.20E-06	26.66	
S10V000636			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.34E-07	n/a	n/a	n/a	n/a	2.34E-07	n/a	U
S10V000636			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<6.86E-07	n/a	n/a	n/a	n/a	6.86E-07	n/a	U
S10V000636			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.33E-07	n/a	n/a	n/a	n/a	3.33E-07	n/a	U
S10V000636			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.13E-06	n/a	n/a	n/a	n/a	1.13E-06	n/a	U
S10V000636			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.19E-07	n/a	n/a	n/a	n/a	8.19E-07	n/a	U
S10V000636			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.31E-07	n/a	n/a	n/a	n/a	4.31E-07	n/a	U
S10V000636			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	1.02E-06	n/a	n/a	n/a	n/a	4.72E-07	26.19	c
S10V000636			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	9.34E-07	n/a	n/a	n/a	n/a	6.24E-07	34.89	J
S10V000636			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.10E-06	n/a	n/a	n/a	n/a	8.10E-06	n/a	U
S10V000636			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.66E-06	n/a	n/a	n/a	n/a	2.66E-06	n/a	U
S10V000636			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.72E-07	n/a	n/a	n/a	n/a	2.72E-07	n/a	U
S10V000637		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.4	<774	<77.3	n/a	n/a	n/a	n/a	77.3	n/a	U
S10V000637		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V000637		O	121-14-2	2,4-Dinitrotoluene	ug/kg	88.6	<381	<38.0	n/a	n/a	n/a	n/a	38.0	n/a	U
S10V000637		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S10V000637		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V000637		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S10V000637		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<53.6	n/a	n/a	n/a	n/a	53.6	n/a	U
S10V000637		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S10V000637		O	83-32-9	Acenaphthene	ug/kg	76.0	<176	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S10V000637		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V000637		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000637		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<412	<41.1	n/a	n/a	n/a	n/a	41.1	n/a	U
S10V000637		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<5.90E+03	<589	n/a	n/a	n/a	n/a	589	n/a	U
S10V000637		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<391	<39.0	n/a	n/a	n/a	n/a	39.0	n/a	U
S10V000637		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	728	80.4	n/a	n/a	n/a	n/a	49.9	n/a	BJ
S10V000637		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	75.6	<432	<43.1	n/a	n/a	n/a	n/a	43.1	n/a	U
S10V000637		O	95-57-8	2-Chlorophenol	ug/kg	74.0	<665	<66.4	n/a	n/a	n/a	n/a	66.4	n/a	U
S10V000637		O	218-01-9	Chrysene	ug/kg	n/a	<814	<81.3	n/a	n/a	n/a	n/a	81.3	n/a	U
S10V000637		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<511	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S10V000637		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<5.62E+03	<561	n/a	n/a	n/a	n/a	561	n/a	U
S10V000637		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<477	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S10V000637		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	73.0	<581	<58.0	n/a	n/a	n/a	n/a	58.0	n/a	U
S10V000637		O	206-44-0	Fluoranthene	ug/kg	n/a	<354	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S10V000637		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<697	<69.6	n/a	n/a	n/a	n/a	69.6	n/a	U
S10V000637		O	67-72-1	Hexachloroethane	ug/kg	n/a	<1.12E+03	<112	n/a	n/a	n/a	n/a	112	n/a	U
S10V000637		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<510	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S10V000637		O	91-20-3	Naphthalene	ug/kg	n/a	<626	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S10V000637		O	98-95-3	Nitrobenzene	ug/kg	n/a	<646	<64.5	n/a	n/a	n/a	n/a	64.5	n/a	U
S10V000637		O	129-00-0	Pyrene	ug/kg	99.7	<629	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S10V000637		O	110-86-1	Pyridine	ug/kg	n/a	<650	<64.9	n/a	n/a	n/a	n/a	64.9	n/a	U
S10V000637		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<1.08E+03	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V000637		O	128-37-0	BHT	ug/kg	n/a	<2.36E+03	<235	n/a	n/a	n/a	n/a	235	n/a	U
S10V000637		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<1.82E+03	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V000637		O	108-94-1	Cyclohexanone	ug/kg	n/a	<5.58E+03	<557	n/a	n/a	n/a	n/a	557	n/a	U
S10V000637		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<1.91E+03	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V000637		O	78-83-1	Isobutanol	ug/kg	n/a	<4.60E+03	<460	n/a	n/a	n/a	n/a	460	n/a	U
S10V000638		W	16984-48-8	Fluoride	ug/g	102	<1.61E-03	0.940	0.888	0.914	5.68	102	0.0165	n/a	
S10V000638		W	666-14-8	Glycolate	ug/g	98.2	<9.37E-03	<0.0960	<0.0984	n/a	n/a	96.8	0.0960	n/a	U
S10V000638		W	71-50-1	Acetate	ug/g	95.5	<6.04E-03	0.310	0.351	0.330	12.3	94.2	0.0619	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000638		W	12311-97-6	Formate	ug/g	99.5	<4.67E-03	0.293	0.376	0.335	24.6	98.3	0.0478	n/a	J
S10V000638		W	16887-00-6	Chloride	ug/g	101	<9.98E-03	0.327	0.339	0.333	3.61	99.0	0.102	n/a	J
S10V000638		W	14797-65-0	Nitrite	ug/g	103	<0.0192	1.79	1.66	1.73	7.73	98.9	0.197	n/a	J
S10V000638		W	14808-79-8	Sulfate	ug/g	102	<0.0187	3.59	3.01	3.30	17.5	100	0.192	n/a	
S10V000638		W	338-70-5	Oxalate	ug/g	100	<0.0231	0.709	0.536	0.623	27.7	99.0	0.237	n/a	J
S10V000638		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.594	<0.609	n/a	n/a	99.1	0.594	n/a	U
S10V000638		W	14797-55-8	Nitrate	ug/g	99.6	<0.0208	3.99	3.41	3.70	15.6	98.5	0.213	n/a	
S10V000638		W	14265-44-2	Phosphate	ug/g	100	<0.0167	1.13	0.949	1.04	17.6	98.9	0.171	n/a	J
S10V000639		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	5.25E+03	n/a	n/a	n/a	n/a	3.06	n/a	
S10V000639		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	51.1	n/a	n/a	n/a	n/a	0.306	n/a	
S10V000639		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.117	n/a	n/a	n/a	n/a	0.102	n/a	J
S10V000639		A	7440-69-9	Bismuth	ug/g	91.8	<0.100	<10.2	n/a	n/a	n/a	n/a	10.2	n/a	U
S10V000639		A	7440-70-2	Calcium	ug/g	91.3	0.586	7.02E+03	n/a	n/a	n/a	n/a	5.10	n/a	
S10V000639		A	7440-45-1	Cerium	ug/g	98.1	<0.0300	18.7	n/a	n/a	n/a	n/a	3.06	n/a	J
S10V000639		A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	5.45	n/a	n/a	n/a	n/a	1.02	n/a	J
S10V000639		A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	8.59	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	10.2	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7439-89-6	Iron	ug/g	93.8	0.0228	1.59E+04	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-09-7	Potassium	ug/g	102	<0.500	907	n/a	n/a	n/a	n/a	51.0	n/a	
S10V000639		A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	7.49	n/a	n/a	n/a	n/a	0.306	n/a	
S10V000639		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	6.50	n/a	n/a	n/a	n/a	0.306	n/a	
S10V000639		A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	3.68E+03	n/a	n/a	n/a	n/a	5.10	n/a	
S10V000639		A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	238	n/a	n/a	n/a	n/a	0.306	n/a	
S10V000639		A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	2.45	n/a	n/a	n/a	n/a	2.04	n/a	J
S10V000639		A	7440-23-5	Sodium	ug/g	98.1	<0.100	228	n/a	n/a	n/a	n/a	10.2	n/a	b
S10V000639		A	7440-02-0	Nickel	ug/g	92.8	<0.0200	8.18	n/a	n/a	n/a	n/a	2.04	n/a	J
S10V000639		A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	643	n/a	n/a	n/a	n/a	5.10	n/a	
S10V000639		A	7704-34-9	Sulfur	ug/g	94.7	<0.100	40.7	n/a	n/a	n/a	n/a	10.2	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000639		A	7440-21-3	Silicon	ug/g	85.0	<0.0300	95.5	n/a	n/a	n/a	n/a	3.06	n/a	b
S10V000639		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	25.9	n/a	n/a	n/a	n/a	0.306	n/a	
S10V000639		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	890	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	32.6	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	7.38	n/a	n/a	n/a	n/a	0.204	n/a	
S10V000639		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	29.3	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	3.07	n/a	n/a	n/a	n/a	0.510	n/a	BJb
S10V000639		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<2.86E-05	n/a	n/a	n/a	n/a	2.86E-05	n/a	U
S10V000639		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	2.24	n/a	n/a	n/a	n/a	6.94E-04	n/a	b
S10V000639		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.58E-04	n/a	n/a	n/a	n/a	4.08E-05	n/a	J
S10V000639		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.04E-05	n/a	n/a	n/a	n/a	2.04E-05	n/a	U
S10V000639		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	2.70E-03	n/a	n/a	n/a	n/a	4.49E-05	n/a	
S10V000639		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.63E-05	n/a	n/a	n/a	n/a	1.63E-05	n/a	U
S10V000639		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.16E-04	n/a	n/a	n/a	n/a	2.16E-04	n/a	U
S10V000639		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.399	n/a	n/a	n/a	n/a	2.25E-03	n/a	
S10V000639		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0816	n/a	n/a	n/a	n/a	0.0816	n/a	U
S10V000639		A	7440-38-2	Arsenic	ug/g	112	<0.0420	2.36	n/a	n/a	n/a	n/a	0.429	n/a	
S10V000639		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.0725	n/a	n/a	n/a	n/a	0.0306	n/a	
S10V000639		A	7439-92-1	Lead	ug/g	101	<0.0310	4.27	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000639		A	7782-49-2	Selenium	ug/g	107	<0.0610	1.35	n/a	n/a	n/a	n/a	0.623	n/a	J
S10V000639		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0520	n/a	n/a	n/a	n/a	6.12E-03	n/a	BJ
S10V000640		S	14798-03-9	Ammonium	ug/g	91.4	<0.0120	1.07	1.27	1.17	16.8	94.4	0.478	n/a	J
S10V000641		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.07E-04	n/a	n/a	n/a	n/a	3.07E-04	n/a	U
S10V000641		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0186	n/a	n/a	n/a	n/a	0.0106	n/a	Jb
S10V000641		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	<1.92E-04	n/a	n/a	n/a	n/a	1.92E-04	n/a	Ub
S10V000642		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<2.42E-07	n/a	n/a	n/a	n/a	2.42E-07	n/a	U
S10V000642		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<6.05E-07	n/a	n/a	n/a	n/a	6.05E-07	n/a	U
S10V000642		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<2.42E-07	n/a	n/a	n/a	n/a	2.42E-07	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000406			%WATERA	%WATER-APD	%	n/a	n/a	3.930	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000406			57-12-5	Cyanide	ug/g	99.5	<0.0370	<2.62	n/a	n/a	n/a	n/a	2.62	n/a	U
S10V000406			7439-97-6	Mercury	ug/g	101	<1.00E-04	0.0171	n/a	n/a	n/a	n/a	8.94E-03	n/a	J
S10V000406			PH	pH J	unitless	n/a	n/a	9.03	9.35	9.19	3.48	n/a	0.0100	n/a	
S10V000406			18496-25-8	Sulfide	ug/g	106	<0.180	17.0	n/a	n/a	n/a	n/a	7.18	n/a	J
S10V000654			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.01E-05	n/a	n/a	n/a	n/a	5.11E-06	33.70	J
S10V000654			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.57E-07	n/a	n/a	n/a	n/a	2.57E-07	n/a	U
S10V000654			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<6.93E-07	n/a	n/a	n/a	n/a	6.93E-07	n/a	U
S10V000654			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.29E-07	n/a	n/a	n/a	n/a	3.29E-07	n/a	U
S10V000654			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.21E-06	n/a	n/a	n/a	n/a	1.21E-06	n/a	U
S10V000654			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.36E-07	n/a	n/a	n/a	n/a	8.36E-07	n/a	U
S10V000654			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.46E-07	n/a	n/a	n/a	n/a	4.46E-07	n/a	U
S10V000654			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	7.46E-07	n/a	n/a	n/a	n/a	3.95E-07	20.84	c
S10V000654			14733-03-0	Bismuth-214	uCi/g	n/a	<6.45E-07	8.44E-07	n/a	n/a	n/a	n/a	5.08E-07	37.33	J
S10V000654			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.17E-06	n/a	n/a	n/a	n/a	8.17E-06	n/a	U
S10V000654			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.71E-06	n/a	n/a	n/a	n/a	2.71E-06	n/a	U
S10V000654			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.68E-07	n/a	n/a	n/a	n/a	2.68E-07	n/a	U
S10V000655		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.4	<774	<76.2	n/a	n/a	n/a	n/a	76.2	n/a	U
S10V000655		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<99.1	n/a	n/a	n/a	n/a	99.1	n/a	U
S10V000655		O	121-14-2	2,4-Dinitrotoluene	ug/kg	88.6	<381	<37.5	n/a	n/a	n/a	n/a	37.5	n/a	U
S10V000655		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<43.3	n/a	n/a	n/a	n/a	43.3	n/a	U
S10V000655		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S10V000655		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S10V000655		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<52.8	n/a	n/a	n/a	n/a	52.8	n/a	U
S10V000655		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S10V000655		O	83-32-9	Acenaphthene	ug/kg	76.0	<176	<17.3	n/a	n/a	n/a	n/a	17.3	n/a	U
S10V000655		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U
S10V000655		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000655~~		~~O~~	~~50-32-8~~	~~Benzo(a)pyrene~~	~~ug/kg~~	~~n/a~~	~~<412~~	~~<40.5~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~40.5~~	~~n/a~~	~~U~~
S10V000655		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<5.90E+03	<581	n/a	n/a	n/a	n/a	581	n/a	U
S10V000655		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<391	<38.5	n/a	n/a	n/a	n/a	38.5	n/a	U
S10V000655		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	728	76.2	n/a	n/a	n/a	n/a	49.2	n/a	BJ
S10V000655		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	75.6	<432	<42.5	n/a	n/a	n/a	n/a	42.5	n/a	U
S10V000655		O	95-57-8	2-Chlorophenol	ug/kg	74.0	<665	<65.4	n/a	n/a	n/a	n/a	65.4	n/a	U
S10V000655		O	218-01-9	Chrysene	ug/kg	n/a	<814	<80.1	n/a	n/a	n/a	n/a	80.1	n/a	U
S10V000655		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<511	<50.3	n/a	n/a	n/a	n/a	50.3	n/a	U
S10V000655		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<5.62E+03	<553	n/a	n/a	n/a	n/a	553	n/a	U
S10V000655		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<477	<46.9	n/a	n/a	n/a	n/a	46.9	n/a	U
S10V000655		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	73.0	<581	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S10V000655		O	206-44-0	Fluoranthene	ug/kg	n/a	<354	<34.8	n/a	n/a	n/a	n/a	34.8	n/a	U
S10V000655		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<697	<68.6	n/a	n/a	n/a	n/a	68.6	n/a	U
S10V000655		O	67-72-1	Hexachloroethane	ug/kg	n/a	<1.12E+03	<110	n/a	n/a	n/a	n/a	110	n/a	U
S10V000655		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<510	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S10V000655		O	91-20-3	Naphthalene	ug/kg	n/a	<626	<61.6	n/a	n/a	n/a	n/a	61.6	n/a	U
S10V000655		O	98-95-3	Nitrobenzene	ug/kg	n/a	<646	<63.6	n/a	n/a	n/a	n/a	63.6	n/a	U
S10V000655		O	129-00-0	Pyrene	ug/kg	99.7	<629	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S10V000655		O	110-86-1	Pyridine	ug/kg	n/a	<650	<64.0	n/a	n/a	n/a	n/a	64.0	n/a	U
S10V000655		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<1.08E+03	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V000655		O	128-37-0	BHT	ug/kg	n/a	<2.36E+03	<232	n/a	n/a	n/a	n/a	232	n/a	U
S10V000655		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<1.82E+03	<179	n/a	n/a	n/a	n/a	179	n/a	U
S10V000655		O	108-94-1	Cyclohexanone	ug/kg	n/a	<5.58E+03	<549	n/a	n/a	n/a	n/a	549	n/a	U
S10V000655		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<1.91E+03	<188	n/a	n/a	n/a	n/a	188	n/a	U
~~S10V000655~~		~~O~~	~~78-83-1~~	~~Isobutanol~~	~~ug/kg~~	~~n/a~~	~~<4.60E+03~~	~~<453~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~453~~	~~n/a~~	~~U~~
S10V000656		W	16984-48-8	Fluoride	ug/g	102	<1.61E-03	1.13	n/a	n/a	n/a	n/a	0.0163	n/a	
S10V000656		W	666-14-8	Glycolate	ug/g	98.2	<9.37E-03	<0.0951	n/a	n/a	n/a	n/a	0.0951	n/a	U
S10V000656		W	71-50-1	Acetate	ug/g	95.5	<6.04E-03	0.467	n/a	n/a	n/a	n/a	0.0613	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000656		W	12311-97-6	Formate	ug/g	99.5	<4.67E-03	0.575	n/a	n/a	n/a	n/a	0.0474	n/a	J
S10V000656		W	16887-00-6	Chloride	ug/g	101	<9.98E-03	0.625	n/a	n/a	n/a	n/a	0.101	n/a	
S10V000656		W	14797-65-0	Nitrite	ug/g	103	<0.0192	1.25	n/a	n/a	n/a	n/a	0.195	n/a	J
S10V000656		W	14808-79-8	Sulfate	ug/g	102	<0.0187	4.34	n/a	n/a	n/a	n/a	0.190	n/a	
S10V000656		W	338-70-5	Oxalate	ug/g	100	<0.0231	0.880	n/a	n/a	n/a	n/a	0.234	n/a	J
S10V000656		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.588	n/a	n/a	n/a	n/a	0.588	n/a	U
S10V000656		W	14797-55-8	Nitrate	ug/g	99.6	<0.0208	3.69	n/a	n/a	n/a	n/a	0.211	n/a	
S10V000656		W	14265-44-2	Phosphate	ug/g	100	<0.0167	1.00	n/a	n/a	n/a	n/a	0.169	n/a	J
S10V000657		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	5.37E+03	n/a	n/a	n/a	n/a	3.23	n/a	
S10V000657		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	55.4	n/a	n/a	n/a	n/a	0.323	n/a	
S10V000657		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.111	n/a	n/a	n/a	n/a	0.108	n/a	J
S10V000657		A	7440-70-2	Calcium	ug/g	91.3	0.586	7.11E+03	n/a	n/a	n/a	n/a	5.38	n/a	
S10V000657		A	7440-45-1	Cerium	ug/g	98.1	<0.0300	14.0	n/a	n/a	n/a	n/a	3.23	n/a	J
S10V000657		A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	5.50	n/a	n/a	n/a	n/a	1.08	n/a	J
S10V000657		A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	8.36	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	9.66	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7439-89-6	Iron	ug/g	93.8	0.0228	1.60E+04	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-09-7	Potassium	ug/g	102	<0.500	929	n/a	n/a	n/a	n/a	53.8	n/a	
S10V000657		A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	6.89	n/a	n/a	n/a	n/a	0.323	n/a	
S10V000657		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	6.85	n/a	n/a	n/a	n/a	0.323	n/a	
S10V000657		A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	3.94E+03	n/a	n/a	n/a	n/a	5.38	n/a	
S10V000657		A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	259	n/a	n/a	n/a	n/a	0.323	n/a	
S10V000657		A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	2.26	n/a	n/a	n/a	n/a	2.15	n/a	J
S10V000657		A	7440-23-5	Sodium	ug/g	98.1	<0.100	230	n/a	n/a	n/a	n/a	10.8	n/a	b
S10V000657		A	7440-02-0	Nickel	ug/g	92.8	<0.0200	7.70	n/a	n/a	n/a	n/a	2.15	n/a	J
S10V000657		A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	630	n/a	n/a	n/a	n/a	5.38	n/a	
S10V000657		A	7704-34-9	Sulfur	ug/g	94.7	<0.100	38.9	n/a	n/a	n/a	n/a	10.8	n/a	J
S10V000657		A	7440-21-3	Silicon	ug/g	85.0	<0.0300	109	n/a	n/a	n/a	n/a	3.23	n/a	b

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000657		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	26.9	n/a	n/a	n/a	n/a	0.323	n/a	
S10V000657		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	984	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	33.5	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	7.27	n/a	n/a	n/a	n/a	0.215	n/a	
S10V000657		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	33.7	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	8.33	n/a	n/a	n/a	n/a	0.538	n/a	Bb
S10V000657		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<3.01E-05	n/a	n/a	n/a	n/a	3.01E-05	n/a	U
S10V000657		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	2.21	n/a	n/a	n/a	n/a	7.32E-04	n/a	b
S10V000657		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	9.70E-05	n/a	n/a	n/a	n/a	4.30E-05	n/a	J
S10V000657		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	2.67E-05	n/a	n/a	n/a	n/a	2.15E-05	n/a	J
S10V000657		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	2.93E-03	n/a	n/a	n/a	n/a	4.73E-05	n/a	
S10V000657		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.72E-05	n/a	n/a	n/a	n/a	1.72E-05	n/a	U
S10V000657		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.28E-04	n/a	n/a	n/a	n/a	2.28E-04	n/a	U
S10V000657		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.416	n/a	n/a	n/a	n/a	2.37E-03	n/a	
S10V000657		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0861	n/a	n/a	n/a	n/a	0.0861	n/a	U
S10V000657		A	7440-38-2	Arsenic	ug/g	112	<0.0420	2.59	n/a	n/a	n/a	n/a	0.452	n/a	
S10V000657		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.0546	n/a	n/a	n/a	n/a	0.0323	n/a	
S10V000657		A	7439-92-1	Lead	ug/g	101	<0.0310	3.52	n/a	n/a	n/a	n/a	0.334	n/a	
S10V000657		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.656	n/a	n/a	n/a	n/a	0.656	n/a	U
S10V000657		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0608	n/a	n/a	n/a	n/a	6.46E-03	n/a	BJ
S10V000658		S	14798-03-9	Ammonium	ug/g	91.4	<0.0120	1.35	n/a	n/a	n/a	n/a	0.468	n/a	J
S10V000659		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.15E-04	n/a	n/a	n/a	n/a	3.15E-04	n/a	U
S10V000659		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0132	n/a	n/a	n/a	n/a	0.0103	n/a	Jb
S10V000659		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	7.25E-04	n/a	n/a	n/a	n/a	1.88E-04	n/a	Jb
S10V000660		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<1.87E-07	n/a	n/a	n/a	n/a	1.87E-07	n/a	U
S10V000660		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.67E-07	n/a	n/a	n/a	n/a	4.67E-07	n/a	U
S10V000660		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<1.87E-07	n/a	n/a	n/a	n/a	1.87E-07	n/a	U
S10V000660		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.59E-07	n/a	n/a	n/a	n/a	2.59E-07	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000407~~			~~%WATERA~~	~~%WATER-APD~~	~~%~~	~~n/a~~	~~n/a~~	~~7.240~~	~~7.650~~	~~7.445~~	~~5.507~~	~~n/a~~	~~0.01000~~	~~n/a~~	
S10V000407			57-12-5	Cyanide	ug/g	99.5	<0.0370	<2.58	n/a	n/a	n/a	n/a	2.58	n/a	U
~~S10V000407~~			~~7439-97-6~~	~~Mercury~~	~~ug/g~~	~~101~~	~~<1.00E-04~~	~~<8.00E-03~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~8.00E-03~~	~~n/a~~	~~U~~
S10V000407			PH	pH J	unitless	n/a	n/a	9.19	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000407			18496-25-8	Sulfide	ug/g	106	<0.180	14.5	n/a	n/a	n/a	n/a	7.19	n/a	J
~~S10V000663~~			~~13966-00-2~~	~~Potassium-40~~	~~uCi/g~~	~~n/a~~	~~<7.29E-06~~	~~1.32E-05~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~7.51E-06~~	~~37.54~~	~~J~~
S10V000663			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.76E-07	n/a	n/a	n/a	n/a	3.76E-07	n/a	U
S10V000663			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<9.67E-07	n/a	n/a	n/a	n/a	9.67E-07	n/a	U
S10V000663			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<4.99E-07	n/a	n/a	n/a	n/a	4.99E-07	n/a	U
S10V000663			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.91E-06	n/a	n/a	n/a	n/a	1.91E-06	n/a	U
S10V000663			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<1.19E-06	n/a	n/a	n/a	n/a	1.19E-06	n/a	U
S10V000663			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<6.28E-07	n/a	n/a	n/a	n/a	6.28E-07	n/a	U
S10V000663			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	7.65E-07	n/a	n/a	n/a	n/a	7.12E-07	37.49	Jc
S10V000663			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	8.76E-07	n/a	n/a	n/a	n/a	8.69E-07	40.40	J
S10V000663			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<1.18E-05	n/a	n/a	n/a	n/a	1.18E-05	n/a	U
S10V000663			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<4.06E-06	n/a	n/a	n/a	n/a	4.06E-06	n/a	U
S10V000663			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.35E-07	n/a	n/a	n/a	n/a	2.35E-07	n/a	U
S10V000664		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.4	<774	<75.4	n/a	n/a	n/a	65.9	75.4	n/a	U
S10V000664		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<98.0	n/a	n/a	n/a	n/a	98.0	n/a	U
S10V000664		O	121-14-2	2,4-Dinitrotoluene	ug/kg	88.6	<381	<37.1	n/a	n/a	n/a	90.8	37.1	n/a	U
S10V000664		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<42.8	n/a	n/a	n/a	n/a	42.8	n/a	U
S10V000664		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<48.2	n/a	n/a	n/a	n/a	48.2	n/a	U
S10V000664		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<56.0	n/a	n/a	n/a	n/a	56.0	n/a	U
S10V000664		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S10V000664		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S10V000664		O	83-32-9	Acenaphthene	ug/kg	76.0	<176	<17.1	n/a	n/a	n/a	74.8	17.1	n/a	U
S10V000664		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U
S10V000664		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000664~~		~~O~~	~~50-32-8~~	~~Benzo(a)pyrene~~	~~ug/kg~~	~~n/a~~	~~<412~~	~~<40.1~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~40.1~~	~~n/a~~	~~U~~
S10V000664		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<5.90E+03	<575	n/a	n/a	n/a	n/a	575	n/a	U
S10V000664		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<391	<38.1	n/a	n/a	n/a	n/a	38.1	n/a	U
S10V000664		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	728	74.2	n/a	n/a	n/a	n/a	48.7	n/a	BJ
S10V000664		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	75.6	<432	<42.1	n/a	n/a	n/a	82.4	42.1	n/a	U
S10V000664		O	95-57-8	2-Chlorophenol	ug/kg	74.0	<665	<64.7	n/a	n/a	n/a	72.0	64.7	n/a	U
S10V000664		O	218-01-9	Chrysene	ug/kg	n/a	<814	<79.2	n/a	n/a	n/a	n/a	79.2	n/a	U
S10V000664		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<511	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S10V000664		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<5.62E+03	<547	n/a	n/a	n/a	n/a	547	n/a	U
S10V000664		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<477	<46.4	n/a	n/a	n/a	n/a	46.4	n/a	U
S10V000664		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	73.0	<581	<56.6	n/a	n/a	n/a	65.7	56.6	n/a	U
S10V000664		O	206-44-0	Fluoranthene	ug/kg	n/a	<354	<34.5	n/a	n/a	n/a	n/a	34.5	n/a	U
S10V000664		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<697	<67.9	n/a	n/a	n/a	n/a	67.9	n/a	U
S10V000664		O	67-72-1	Hexachloroethane	ug/kg	n/a	<1.12E+03	<109	n/a	n/a	n/a	n/a	109	n/a	U
S10V000664		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<510	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S10V000664		O	91-20-3	Naphthalene	ug/kg	n/a	<626	<60.9	n/a	n/a	n/a	n/a	60.9	n/a	U
S10V000664		O	98-95-3	Nitrobenzene	ug/kg	n/a	<646	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	U
S10V000664		O	129-00-0	Pyrene	ug/kg	99.7	<629	<61.2	n/a	n/a	n/a	92.9	61.2	n/a	U
S10V000664		O	110-86-1	Pyridine	ug/kg	n/a	<650	<63.3	n/a	n/a	n/a	n/a	63.3	n/a	U
S10V000664		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<1.08E+03	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V000664		O	128-37-0	BHT	ug/kg	n/a	<2.36E+03	<229	n/a	n/a	n/a	n/a	229	n/a	U
S10V000664		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<1.82E+03	<178	n/a	n/a	n/a	n/a	178	n/a	U
S10V000664		O	108-94-1	Cyclohexanone	ug/kg	n/a	<5.58E+03	<543	n/a	n/a	n/a	n/a	543	n/a	U
S10V000664		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<1.91E+03	<186	n/a	n/a	n/a	n/a	186	n/a	U
~~S10V000664~~		~~O~~	~~78-83-1~~	~~Isobutanol~~	~~ug/kg~~	~~n/a~~	~~<4.60E+03~~	~~<448~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~448~~	~~n/a~~	~~U~~
S10V000665		W	16984-48-8	Fluoride	ug/g	102	<1.61E-03	1.73	n/a	n/a	n/a	n/a	0.0163	n/a	
S10V000665		W	666-14-8	Glycolate	ug/g	98.2	<9.37E-03	<0.0948	n/a	n/a	n/a	n/a	0.0948	n/a	U
S10V000665		W	71-50-1	Acetate	ug/g	95.5	<6.04E-03	0.474	n/a	n/a	n/a	n/a	0.0611	n/a	J

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
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c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000665		W	12311-97-6	Formate	ug/g	99.5	<4.67E-03	0.803	n/a	n/a	n/a	n/a	0.0473	n/a	J
S10V000665		W	16887-00-6	Chloride	ug/g	101	<9.98E-03	0.964	n/a	n/a	n/a	n/a	0.101	n/a	
S10V000665		W	14797-65-0	Nitrite	ug/g	103	<0.0192	1.69	n/a	n/a	n/a	n/a	0.194	n/a	J
S10V000665		W	14808-79-8	Sulfate	ug/g	102	<0.0187	11.7	n/a	n/a	n/a	n/a	0.189	n/a	
S10V000665		W	338-70-5	Oxalate	ug/g	100	<0.0231	1.41	n/a	n/a	n/a	n/a	0.234	n/a	J
S10V000665		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.587	n/a	n/a	n/a	n/a	0.587	n/a	U
S10V000665		W	14797-55-8	Nitrate	ug/g	99.6	<0.0208	11.1	n/a	n/a	n/a	n/a	0.211	n/a	
S10V000665		W	14265-44-2	Phosphate	ug/g	100	<0.0167	1.45	n/a	n/a	n/a	n/a	0.169	n/a	J
S10V000666		A	7429-90-5	Aluminum	ug/g	92.4	<0.0300	8.53E+03	8.14E+03	8.34E+03	4.68	1.69E+03	2.99	n/a	
S10V000666		A	7440-39-3	Barium	ug/g	98.4	<3.00E-03	78.4	67.8	73.1	14.4	85.0	0.299	n/a	
S10V000666		A	7440-41-7	Beryllium	ug/g	90.8	<1.00E-03	0.173	0.176	0.175	2.01	108	0.0997	n/a	J
S10V000666		A	7440-70-2	Calcium	ug/g	91.7	0.141	8.19E+03	8.06E+03	8.12E+03	1.58	798	4.98	n/a	
S10V000666		A	7440-45-1	Cerium	ug/g	94.2	<0.0300	18.3	18.4	18.4	0.828	109	2.99	n/a	J
S10V000666		A	7440-48-4	Cobalt	ug/g	92.4	<0.0100	8.25	7.66	7.95	7.43	108	0.997	n/a	J
S10V000666		A	7440-47-3	Chromium	ug/g	91.7	<5.00E-03	17.7	16.5	17.1	6.86	109	0.498	n/a	
S10V000666		A	7440-50-8	Copper	ug/g	101	<5.00E-03	11.5	11.3	11.4	1.90	106	0.498	n/a	
S10V000666		A	7439-89-6	Iron	ug/g	93.3	9.59E-03	1.95E+04	1.92E+04	1.94E+04	1.68	1.07E+03	0.498	n/a	
S10V000666		A	7440-09-7	Potassium	ug/g	108	<0.500	1.25E+03	1.13E+03	1.19E+03	10.1	47.6	49.8	n/a	
S10V000666		A	7439-91-0	Lanthanum	ug/g	97.6	<3.00E-03	8.80	8.81	8.81	0.0733	104	0.299	n/a	
S10V000666		A	7439-93-2	Lithium	ug/g	111	<3.00E-03	9.53	8.96	9.24	6.13	101	0.299	n/a	
S10V000666		A	7439-95-4	Magnesium	ug/g	91.9	<0.0500	5.47E+03	4.60E+03	5.03E+03	17.3	-1.28E+03	4.98	n/a	
S10V000666		A	7439-96-5	Manganese	ug/g	91.2	<3.00E-03	353	305	329	14.6	58.4	0.299	n/a	
S10V000666		A	7439-98-7	Molybdenum	ug/g	94.3	<0.0200	<1.99	<2.00	n/a	n/a	104	1.99	n/a	U
S10V000666		A	7440-23-5	Sodium	ug/g	115	<0.100	287	259	273	10.0	267	9.97	n/a	
S10V000666		A	7440-02-0	Nickel	ug/g	91.8	<0.0200	20.2	12.0	16.1	50.7	93.8	1.99	n/a	c
S10V000666		A	7723-14-0	Phosphorus	ug/g	92.7	<0.0500	601	593	597	1.42	83.2	4.98	n/a	
S10V000666		A	7704-34-9	Sulfur	ug/g	92.9	<0.100	32.8	28.1	30.5	15.6	111	9.97	n/a	J
S10V000666		A	7440-21-3	Silicon	ug/g	63.5	<0.0300	134	n/a	n/a	n/a	424	2.99	n/a	a

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000666		A	7440-24-6	Strontium	ug/g	97.1	<3.00E-03	46.1	35.9	41.0	24.9	84.9	0.299	n/a	
S10V000666		A	7440-32-6	Titanium	ug/g	93.0	<5.00E-03	1.19E+03	1.16E+03	1.18E+03	2.48	236	0.498	n/a	
S10V000666		A	7440-62-2	Vanadium	ug/g	94.6	<5.00E-03	45.7	44.8	45.3	1.97	116	0.498	n/a	
S10V000666		A	7440-65-5	Yttrium	ug/g	88.8	<2.00E-03	7.17	7.26	7.21	1.27	89.8	0.199	n/a	
S10V000666		A	7440-66-6	Zinc	ug/g	94.0	<5.00E-03	36.7	36.8	36.8	0.390	112	0.498	n/a	
S10V000666		A	7440-67-7	Zirconium	ug/g	92.1	<5.00E-03	10.8	10.7	10.7	1.20	28.4	0.498	n/a	b
S10V000666		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<3.38E-05	<3.24E-05	n/a	n/a	n/a	3.38E-05	n/a	U
S10V000666		A	TH-232	Thorium-232	ug/g	108	<6.80E-05	3.09	2.70	2.89	13.4	115	8.20E-04	n/a	
S10V000666		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	9.81E-05	8.67E-05	9.24E-05	12.4	n/a	4.83E-05	n/a	J
S10V000666		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.41E-05	<2.31E-05	n/a	n/a	n/a	2.41E-05	n/a	U
S10V000666		A	15117-96-1	Uranium-235	ug/g	97.3	<4.40E-06	3.79E-03	3.23E-03	3.51E-03	16.0	98.5	5.31E-05	n/a	
S10V000666		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.93E-05	<1.85E-05	n/a	n/a	n/a	1.93E-05	n/a	U
S10V000666		A	13994-20-2	Neptunium-237	ug/g	106	<2.12E-05	<2.56E-04	<2.45E-04	n/a	n/a	103	2.56E-04	n/a	U
S10V000666		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.544	0.503	0.523	7.83	103	2.65E-03	n/a	
S10V000666		A	7440-22-4	Silver	ug/g	104	<1.60E-03	0.0582	0.0622	0.0602	6.66	99.8	0.0193	n/a	J
S10V000666		A	7440-43-9	Cadmium	ug/g	102	<6.00E-04	0.0672	0.0730	0.0701	8.27	101	7.24E-03	n/a	J
S10V000667		S	14798-03-9	Ammonium	ug/g	91.4	<0.0120	1.53	n/a	n/a	n/a	n/a	0.469	n/a	J
S10V000668		A	14133-76-7	Technetium-99	ug/g	99.1	<1.50E-04	<1.71E-03	<1.73E-03	n/a	n/a	101	1.71E-03	n/a	U
S10V000668		A	SN-117	Tin-117	ug/g	108	<5.50E-03	<0.0629	<0.0634	n/a	n/a	52.9	0.0629	n/a	Ub
S10V000668		A	15832-50-5	Tin-126	ug/g	n/a	<1.00E-04	<1.14E-03	<1.15E-03	n/a	n/a	n/a	1.14E-03	n/a	Ub
S10V000669		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<2.10E-07	n/a	n/a	n/a	n/a	2.10E-07	n/a	U
S10V000669		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<5.26E-07	n/a	n/a	n/a	n/a	5.26E-07	n/a	U
S10V000669		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<2.10E-07	n/a	n/a	n/a	n/a	2.10E-07	n/a	U
S10V000669		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.52E-07	n/a	n/a	n/a	n/a	2.52E-07	n/a	U
S10V000669		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.52E-07	n/a	n/a	n/a	n/a	2.52E-07	n/a	U
S10V000670		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<3.38E-07	n/a	n/a	n/a	n/a	3.38E-07	n/a	U
S10V000671		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.43E-05	n/a	n/a	n/a	n/a	1.43E-05	n/a	U
S10V000671		E	15758-45-9	Selenium-79	uCi/g	n/a	<7.37E-07	<1.38E-06	n/a	n/a	n/a	n/a	1.38E-06	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000408			%WATERA	%WATER-APD	%	n/a	n/a	3.350	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000408			57-12-5	Cyanide	ug/g	88.8	<0.0370	<3.08	n/a	n/a	n/a	n/a	3.08	n/a	U
S10V000408			7439-97-6	Mercury	ug/g	103	<1.00E-04	<8.41E-03	n/a	n/a	n/a	98.8	8.41E-03	n/a	U
S10V000408			PH	pH J	unitless	n/a	n/a	8.73	8.75	8.74	0.229	n/a	0.0100	n/a	
S10V000408			18496-25-8	Sulfide	ug/g	94.7	<0.180	7.21	7.91	7.56	9.16	101	7.17	n/a	J
S10V000672			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.10E-05	1.89E-05	1.50E-05	53.1	n/a	6.01E-06	36.08	J
S10V000672			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.98E-07	<3.78E-07	n/a	n/a	n/a	2.98E-07	n/a	U
S10V000672			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<8.02E-07	<9.81E-07	n/a	n/a	n/a	8.02E-07	n/a	U
S10V000672			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.54E-07	<5.08E-07	n/a	n/a	n/a	3.54E-07	n/a	U
S10V000672			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.27E-06	<1.98E-06	n/a	n/a	n/a	1.27E-06	n/a	U
S10V000672			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<9.56E-07	<1.27E-06	n/a	n/a	n/a	9.56E-07	n/a	U
S10V000672			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<5.03E-07	<6.62E-07	n/a	n/a	n/a	5.03E-07	n/a	U
S10V000672			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	7.72E-07	1.34E-06	1.06E-06	54.1	n/a	5.60E-07	23.60	c
S10V000672			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<9.20E-06	<1.25E-05	n/a	n/a	n/a	9.20E-06	n/a	U
S10V000672			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<3.16E-06	<4.38E-06	n/a	n/a	n/a	3.16E-06	n/a	U
S10V000672			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.56E-07	<2.16E-07	n/a	n/a	n/a	2.56E-07	n/a	U
S10V000673		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	63.8	<77.4	<77.0	n/a	n/a	n/a	66.7	77.0	n/a	U
S10V000673		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S10V000673		O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.3	<38.1	<37.9	n/a	n/a	n/a	80.7	37.9	n/a	U
S10V000673		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.8	n/a	n/a	n/a	n/a	43.8	n/a	U
S10V000673		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S10V000673		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S10V000673		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.4	n/a	n/a	n/a	n/a	53.4	n/a	U
S10V000673		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S10V000673		O	83-32-9	Acenaphthene	ug/kg	67.9	<17.6	<17.5	n/a	n/a	n/a	70.7	17.5	n/a	U
S10V000673		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S10V000673		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S10V000673		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
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a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000673		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<587	n/a	n/a	n/a	n/a	587	n/a	U
S10V000673		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S10V000673		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	74.0	75.6	n/a	n/a	n/a	n/a	49.7	n/a	BJ
S10V000673		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	67.8	<43.2	<43.0	n/a	n/a	n/a	75.1	43.0	n/a	U
S10V000673		O	95-57-8	2-Chlorophenol	ug/kg	66.3	<66.5	<66.2	n/a	n/a	n/a	68.3	66.2	n/a	U
S10V000673		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.0	n/a	n/a	n/a	n/a	81.0	n/a	U
S10V000673		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V000673		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<559	n/a	n/a	n/a	n/a	559	n/a	U
S10V000673		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.5	n/a	n/a	n/a	n/a	47.5	n/a	U
S10V000673		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	61.6	<58.1	<57.8	n/a	n/a	n/a	67.2	57.8	n/a	U
S10V000673		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.2	n/a	n/a	n/a	n/a	35.2	n/a	U
S10V000673		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.3	n/a	n/a	n/a	n/a	69.3	n/a	U
S10V000673		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V000673		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U
S10V000673		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.3	n/a	n/a	n/a	n/a	62.3	n/a	U
S10V000673		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S10V000673		O	129-00-0	Pyrene	ug/kg	n/a	<62.9	<62.6	n/a	n/a	n/a	81.8	62.6	n/a	U
S10V000673		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.7	n/a	n/a	n/a	n/a	64.7	n/a	U
S10V000673		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V000673		O	128-37-0	BHT	ug/kg	n/a	<236	<234	n/a	n/a	n/a	n/a	234	n/a	U
S10V000673		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<181	n/a	n/a	n/a	n/a	181	n/a	U
S10V000673		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V000673		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<555	n/a	n/a	n/a	n/a	555	n/a	U
S10V000673		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S10V000673		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<458	n/a	n/a	n/a	n/a	458	n/a	U
S10V000674		W	16984-48-8	Fluoride	ug/g	106	<1.61E-03	1.41	1.41	1.41	0.0569	104	0.0165	n/a	
S10V000674		W	666-14-8	Glycolate	ug/g	102	<9.37E-03	<0.0958	<0.0959	n/a	n/a	99.0	0.0958	n/a	U
S10V000674		W	71-50-1	Acetate	ug/g	102	<6.04E-03	0.399	0.430	0.414	7.47	96.3	0.0617	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000674		W	12311-97-6	Formate	ug/g	105	<4.67E-03	0.241	0.240	0.241	0.312	100	0.0477	n/a	J
S10V000674		W	16887-00-6	Chloride	ug/g	104	<9.98E-03	3.26	3.29	3.27	0.987	103	0.102	n/a	
S10V000674		W	14797-65-0	Nitrite	ug/g	105	<0.0192	1.04	1.03	1.03	1.28	98.4	0.196	n/a	J
S10V000674		W	14808-79-8	Sulfate	ug/g	106	<0.0187	113	114	114	0.843	104	0.191	n/a	
S10V000674		W	338-70-5	Oxalate	ug/g	104	<0.0231	<0.236	<0.236	n/a	n/a	102	0.236	n/a	U
S10V000674		W	24959-67-9	Bromide	ug/g	106	<0.0580	<0.593	<0.593	n/a	n/a	100	0.593	n/a	U
S10V000674		W	14797-55-8	Nitrate	ug/g	105	<0.0208	41.8	42.1	41.9	0.821	102	0.213	n/a	
S10V000674		W	14265-44-2	Phosphate	ug/g	104	<0.0167	0.281	0.290	0.285	3.16	101	0.171	n/a	J
S10V000675		A	7429-90-5	Aluminum	ug/g	92.4	<0.0300	7.17E+03	n/a	n/a	n/a	n/a	3.00	n/a	
S10V000675		A	7440-39-3	Barium	ug/g	98.4	<3.00E-03	64.5	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000675		A	7440-41-7	Beryllium	ug/g	90.8	<1.00E-03	0.149	n/a	n/a	n/a	n/a	0.0999	n/a	J
S10V000675		A	7440-70-2	Calcium	ug/g	91.7	0.141	8.83E+03	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000675		A	7440-45-1	Cerium	ug/g	94.2	<0.0300	20.9	n/a	n/a	n/a	n/a	3.00	n/a	J
S10V000675		A	7440-48-4	Cobalt	ug/g	92.4	<0.0100	5.65	n/a	n/a	n/a	n/a	0.999	n/a	J
S10V000675		A	7440-47-3	Chromium	ug/g	91.7	<5.00E-03	22.0	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-50-8	Copper	ug/g	101	<5.00E-03	9.18	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7439-89-6	Iron	ug/g	93.3	9.59E-03	1.75E+04	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-09-7	Potassium	ug/g	108	<0.500	1.13E+03	n/a	n/a	n/a	n/a	50.0	n/a	
S10V000675		A	7439-91-0	Lanthanum	ug/g	97.6	<3.00E-03	9.02	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000675		A	7439-93-2	Lithium	ug/g	111	<3.00E-03	9.27	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000675		A	7439-95-4	Magnesium	ug/g	91.9	<0.0500	4.71E+03	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000675		A	7439-96-5	Manganese	ug/g	91.2	<3.00E-03	291	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000675		A	7439-98-7	Molybdenum	ug/g	94.3	<0.0200	<2.00	n/a	n/a	n/a	n/a	2.00	n/a	U
S10V000675		A	7440-23-5	Sodium	ug/g	115	<0.100	204	n/a	n/a	n/a	n/a	9.99	n/a	
S10V000675		A	7440-02-0	Nickel	ug/g	91.8	<0.0200	10.9	n/a	n/a	n/a	n/a	2.00	n/a	Jc
S10V000675		A	7723-14-0	Phosphorus	ug/g	92.7	<0.0500	452	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000675		A	7704-34-9	Sulfur	ug/g	92.9	<0.100	53.2	n/a	n/a	n/a	n/a	9.99	n/a	J
S10V000675		A	7440-21-3	Silicon	ug/g	63.5	<0.0300	93.9	n/a	n/a	n/a	n/a	3.00	n/a	a

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000675		A	7440-24-6	Strontium	ug/g	97.1	<3.00E-03	36.1	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000675		A	7440-32-6	Titanium	ug/g	93.0	<5.00E-03	862	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-62-2	Vanadium	ug/g	94.6	<5.00E-03	36.8	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-65-5	Yttrium	ug/g	88.8	<2.00E-03	5.04	n/a	n/a	n/a	n/a	0.200	n/a	
S10V000675		A	7440-66-6	Zinc	ug/g	94.0	<5.00E-03	33.8	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-67-7	Zirconium	ug/g	92.1	<5.00E-03	5.85	n/a	n/a	n/a	n/a	0.500	n/a	b
S10V000675		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<3.35E-05	n/a	n/a	n/a	n/a	3.35E-05	n/a	U
S10V000675		A	TH-232	Thorium-232	ug/g	108	<6.80E-05	3.60	n/a	n/a	n/a	n/a	8.13E-04	n/a	
S10V000675		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.44E-04	n/a	n/a	n/a	n/a	4.78E-05	n/a	J
S10V000675		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.39E-05	n/a	n/a	n/a	n/a	2.39E-05	n/a	U
S10V000675		A	15117-96-1	Uranium-235	ug/g	97.3	<4.40E-06	4.03E-03	n/a	n/a	n/a	n/a	5.26E-05	n/a	
S10V000675		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.91E-05	n/a	n/a	n/a	n/a	1.91E-05	n/a	U
S10V000675		A	13994-20-2	Neptunium-237	ug/g	106	<2.12E-05	<2.53E-04	n/a	n/a	n/a	n/a	2.53E-04	n/a	U
S10V000675		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.565	n/a	n/a	n/a	n/a	2.63E-03	n/a	
S10V000675		A	7440-22-4	Silver	ug/g	104	<1.60E-03	0.0466	n/a	n/a	n/a	n/a	0.0191	n/a	J
S10V000675		A	7440-43-9	Cadmium	ug/g	102	<6.00E-04	0.0629	n/a	n/a	n/a	n/a	7.17E-03	n/a	J
S10V000676		S	14798-03-9	Ammonium	ug/g	99.9	<0.0120	1.05	0.883	0.968	17.6	103	0.477	n/a	J
S10V000677		A	14133-76-7	Technetium-99	ug/g	99.1	<1.50E-04	1.96E-03	n/a	n/a	n/a	n/a	1.79E-03	n/a	J
S10V000677		A	SN-117	Tin-117	ug/g	108	<5.50E-03	<0.0656	n/a	n/a	n/a	n/a	0.0656	n/a	Ub
S10V000677		A	15832-50-5	Tin-126	ug/g	n/a	<1.00E-04	<1.19E-03	n/a	n/a	n/a	n/a	1.19E-03	n/a	Ub
S10V000678		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<2.08E-07	<2.00E-07	n/a	n/a	n/a	2.08E-07	n/a	U
S10V000678		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<5.19E-07	<5.00E-07	n/a	n/a	n/a	5.19E-07	n/a	U
S10V000678		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<2.08E-07	<2.00E-07	n/a	n/a	n/a	2.08E-07	n/a	U
S10V000678		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.14E-07	<2.16E-07	n/a	n/a	n/a	2.14E-07	n/a	U
S10V000678		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.14E-07	<2.16E-07	n/a	n/a	n/a	2.14E-07	n/a	U
S10V000679		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<4.68E-07	<4.42E-07	n/a	n/a	n/a	4.68E-07	n/a	U
S10V000680		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.39E-05	<1.92E-05	n/a	n/a	n/a	1.39E-05	n/a	U
S10V000680		E	15758-45-9	Selenium-79	uCi/g	n/a	<7.37E-07	<1.84E-06	<1.57E-06	n/a	n/a	n/a	1.84E-06	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR5
Sample Depth: 163-165

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000409			%WATERA	%WATER-APD	%	n/a	n/a	2.680	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000409			57-12-5	Cyanide	ug/g	88.8	<0.0370	<2.81	<2.68	n/a	n/a	75.8	2.81	n/a	U
S10V000409			7439-97-6	Mercury	ug/g	103	<1.00E-04	<8.96E-03	n/a	n/a	n/a	n/a	8.96E-03	n/a	U
S10V000409			PH	pH J	unitless	n/a	n/a	8.65	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000409			18496-25-8	Sulfide	ug/g	81.2	<0.180	<7.13	<7.14	n/a	n/a	86.7	7.13	n/a	U
S10V000681			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.46E-05	n/a	n/a	n/a	n/a	5.16E-06	24.67	
S10V000681			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.43E-07	n/a	n/a	n/a	n/a	2.43E-07	n/a	U
S10V000681			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<6.46E-07	n/a	n/a	n/a	n/a	6.46E-07	n/a	U
S10V000681			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.06E-07	n/a	n/a	n/a	n/a	3.06E-07	n/a	U
S10V000681			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.18E-06	n/a	n/a	n/a	n/a	1.18E-06	n/a	U
S10V000681			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.51E-07	n/a	n/a	n/a	n/a	8.51E-07	n/a	U
S10V000681			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.27E-07	n/a	n/a	n/a	n/a	4.27E-07	n/a	U
S10V000681			14913-50-9	Thallium-208	uCi/g	n/a	<2.94E-07	4.38E-07	n/a	n/a	n/a	n/a	3.25E-07	47.84	J
S10V000681			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	6.31E-07	n/a	n/a	n/a	n/a	4.02E-07	23.76	c
S10V000681			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<7.88E-06	n/a	n/a	n/a	n/a	7.88E-06	n/a	U
S10V000681			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.63E-06	n/a	n/a	n/a	n/a	2.63E-06	n/a	U
S10V000681			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.75E-07	n/a	n/a	n/a	n/a	2.75E-07	n/a	U
S10V000683		W	16984-48-8	Fluoride	ug/g	106	<1.61E-03	0.780	n/a	n/a	n/a	n/a	0.0163	n/a	
S10V000683		W	666-14-8	Glycolate	ug/g	102	<9.37E-03	<0.0949	n/a	n/a	n/a	n/a	0.0949	n/a	U
S10V000683		W	71-50-1	Acetate	ug/g	102	<6.04E-03	0.327	n/a	n/a	n/a	n/a	0.0612	n/a	J
S10V000683		W	12311-97-6	Formate	ug/g	105	<4.67E-03	0.288	n/a	n/a	n/a	n/a	0.0473	n/a	J
S10V000683		W	16887-00-6	Chloride	ug/g	104	<9.98E-03	8.45	n/a	n/a	n/a	n/a	0.101	n/a	
S10V000683		W	14797-65-0	Nitrite	ug/g	105	<0.0192	0.982	n/a	n/a	n/a	n/a	0.195	n/a	J
S10V000683		W	14808-79-8	Sulfate	ug/g	106	<0.0187	66.5	n/a	n/a	n/a	n/a	0.189	n/a	
S10V000683		W	338-70-5	Oxalate	ug/g	104	<0.0231	0.812	n/a	n/a	n/a	n/a	0.234	n/a	J
S10V000683		W	24959-67-9	Bromide	ug/g	106	<0.0580	<0.588	n/a	n/a	n/a	n/a	0.588	n/a	U
S10V000683		W	14797-55-8	Nitrate	ug/g	105	<0.0208	6.68	n/a	n/a	n/a	n/a	0.211	n/a	
S10V000683		W	14265-44-2	Phosphate	ug/g	104	<0.0167	0.412	n/a	n/a	n/a	n/a	0.169	n/a	J

NA = Not Analyzed, ND = Not Detected

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c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR5
Sample Depth: 163-165

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000684		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	7.66E-05	n/a	n/a	n/a	n/a	4.12E-05	n/a	J
S10V000684		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	3.29E-05	n/a	n/a	n/a	n/a	2.06E-05	n/a	J
S10V000684		A	15117-96-1	Uranium-235	ug/g	97.3	<4.40E-06	3.98E-03	n/a	n/a	n/a	n/a	4.53E-05	n/a	
S10V000684		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.65E-05	n/a	n/a	n/a	n/a	1.65E-05	n/a	U
S10V000684		A	13994-20-2	Neptunium-237	ug/g	106	<2.12E-05	<2.18E-04	n/a	n/a	n/a	n/a	2.18E-04	n/a	U
S10V000684		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.555	n/a	n/a	n/a	n/a	2.27E-03	n/a	
S10V000684		A	7440-22-4	Silver	ug/g	104	<1.60E-03	0.0624	n/a	n/a	n/a	n/a	0.0165	n/a	J
S10V000684		A	7440-43-9	Cadmium	ug/g	102	<6.00E-04	0.0640	n/a	n/a	n/a	n/a	6.18E-03	n/a	
S10V000685		S	14798-03-9	Ammonium	ug/g	97.1	<0.0120	1.13	0.955	1.04	17.1	99.3	0.473	n/a	J
S10V000686		A	14133-76-7	Technetium-99	ug/g	99.1	<1.50E-04	1.76E-03	n/a	n/a	n/a	n/a	1.71E-03	n/a	J
S10V000686		A	SN-117	Tin-117	ug/g	108	<5.50E-03	<0.0628	n/a	n/a	n/a	n/a	0.0628	n/a	Ub
S10V000686		A	15832-50-5	Tin-126	ug/g	n/a	<1.00E-04	<1.14E-03	n/a	n/a	n/a	n/a	1.14E-03	n/a	Ub
S10V000687		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<1.98E-07	n/a	n/a	n/a	n/a	1.98E-07	n/a	U
S10V000687		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.94E-07	n/a	n/a	n/a	n/a	4.94E-07	n/a	U
S10V000687		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<1.98E-07	n/a	n/a	n/a	n/a	1.98E-07	n/a	U
S10V000687		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U
S10V000687		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U
S10V000688		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<4.92E-07	n/a	n/a	n/a	n/a	4.92E-07	n/a	U
S10V000689		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.40E-05	n/a	n/a	n/a	n/a	1.40E-05	n/a	U
S10V000689		E	15758-45-9	Selenium-79	uCi/g	n/a	<7.37E-07	<1.14E-06	n/a	n/a	n/a	n/a	1.14E-06	n/a	U
S10V000831			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.31	n/a	n/a	n/a	n/a	n/a	n/a	
S10V001182		W	14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	<2.57E-06	n/a	n/a	n/a	n/a	2.57E-06	n/a	U
S10V001182		W	10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	4.37E-06	n/a	n/a	n/a	n/a	2.50E-06	85.179	J
S10V001218		A	7440-36-0	Antimony	ug/g	99.4	<0.0100	0.159	n/a	n/a	n/a	n/a	9.74E-03	n/a	B
S10V001736		WV	14133-76-7	Technetium-99	ug/g	107	<4.00E-06	<3.78E-06	n/a	n/a	n/a	n/a	3.78E-06	n/a	U
S10V003310		A	7440-38-2	Arsenic	ug/g	88.8	<8.40E-03	2.80	n/a	n/a	n/a	n/a	0.0840	n/a	
S10V003310		A	7440-43-9	Cadmium	ug/g	102	<1.80E-03	0.0682	n/a	n/a	n/a	n/a	0.0120	n/a	J
S10V003310		A	7439-92-1	Lead	ug/g	94.1	<3.00E-03	5.41	n/a	n/a	n/a	n/a	0.0300	n/a	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000410			%WATERA	%WATER-APD	%	n/a	n/a	4.720	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000410			57-12-5	Cyanide	ug/g	88.8	<0.0370	<2.80	n/a	n/a	n/a	n/a	2.80	n/a	U
S10V000410			7439-97-6	Mercury	ug/g	103	<1.00E-04	0.0681	n/a	n/a	n/a	n/a	8.38E-03	n/a	J
S10V000410			PH	pH J	unitless	n/a	n/a	8.67	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000410			18496-25-8	Sulfide	ug/g	81.2	<0.180	<7.21	n/a	n/a	n/a	n/a	7.21	n/a	U
S10V000690			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.26E-05	n/a	n/a	n/a	n/a	5.54E-06	29.69	
S10V000690			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.74E-07	n/a	n/a	n/a	n/a	2.74E-07	n/a	U
S10V000690			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<7.47E-07	n/a	n/a	n/a	n/a	7.47E-07	n/a	U
S10V000690			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.42E-07	n/a	n/a	n/a	n/a	3.42E-07	n/a	U
S10V000690			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.40E-06	n/a	n/a	n/a	n/a	1.40E-06	n/a	U
S10V000690			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.96E-07	n/a	n/a	n/a	n/a	8.96E-07	n/a	U
S10V000690			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.70E-07	n/a	n/a	n/a	n/a	4.70E-07	n/a	U
S10V000690			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	4.82E-07	n/a	n/a	n/a	n/a	4.80E-07	42.70	Jc
S10V000690			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.71E-06	n/a	n/a	n/a	n/a	8.71E-06	n/a	U
S10V000690			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.86E-06	n/a	n/a	n/a	n/a	2.86E-06	n/a	U
S10V000690			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.24E-07	n/a	n/a	n/a	n/a	2.24E-07	n/a	U
S10V000691		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	76.2	<77.4	<75.0	n/a	n/a	n/a	79.3	75.0	n/a	U
S10V000691		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<97.5	n/a	n/a	n/a	n/a	97.5	n/a	U
S10V000691		O	121-14-2	2,4-Dinitrotoluene	ug/kg	102	<38.1	<36.9	n/a	n/a	n/a	106	36.9	n/a	U
S10V000691		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<42.6	n/a	n/a	n/a	n/a	42.6	n/a	U
S10V000691		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S10V000691		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<55.7	n/a	n/a	n/a	n/a	55.7	n/a	U
S10V000691		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S10V000691		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S10V000691		O	83-32-9	Acenaphthene	ug/kg	83.7	<17.6	<17.0	n/a	n/a	n/a	94.3	17.0	n/a	U
S10V000691		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S10V000691		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U
S10V000691		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.9	n/a	n/a	n/a	n/a	39.9	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000691		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<572	n/a	n/a	n/a	n/a	572	n/a	U
S10V000691		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S10V000691		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S10V000691		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	95.9	<43.2	<41.8	n/a	n/a	n/a	108	41.8	n/a	Ub
S10V000691		O	95-57-8	2-Chlorophenol	ug/kg	79.3	<66.5	<64.4	n/a	n/a	n/a	84.0	64.4	n/a	U
S10V000691		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<78.8	n/a	n/a	n/a	n/a	78.8	n/a	U
S10V000691		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S10V000691		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<545	n/a	n/a	n/a	n/a	545	n/a	U
S10V000691		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	1.22E+03	n/a	n/a	n/a	n/a	46.2	n/a	
S10V000691		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	70.4	<58.1	<56.3	n/a	n/a	n/a	73.7	56.3	n/a	U
S10V000691		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.3	n/a	n/a	n/a	n/a	34.3	n/a	U
S10V000691		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<67.5	n/a	n/a	n/a	n/a	67.5	n/a	U
S10V000691		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V000691		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V000691		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<60.6	n/a	n/a	n/a	n/a	60.6	n/a	U
S10V000691		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S10V000691		O	129-00-0	Pyrene	ug/kg	110	<62.9	<60.9	n/a	n/a	n/a	101	60.9	n/a	U
S10V000691		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<63.0	n/a	n/a	n/a	n/a	63.0	n/a	U
S10V000691		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S10V000691		O	128-37-0	BHT	ug/kg	n/a	<236	<228	n/a	n/a	n/a	n/a	228	n/a	U
S10V000691		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<177	n/a	n/a	n/a	n/a	177	n/a	U
S10V000691		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U
S10V000691		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<541	n/a	n/a	n/a	n/a	541	n/a	U
S10V000691		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<185	n/a	n/a	n/a	n/a	185	n/a	U
S10V000691		O	78-83-1	Isobutanol	ug/kg	n/a	n/a	<446	n/a	n/a	n/a	n/a	446	n/a	U
S10V000692		W	16984-48-8	Fluoride	ug/g	106	<1.61E-03	2.38	n/a	n/a	n/a	n/a	0.0163	n/a	
S10V000692		W	666-14-8	Glycolate	ug/g	102	<9.37E-03	0.663	n/a	n/a	n/a	n/a	0.0951	n/a	J
S10V000692		W	71-50-1	Acetate	ug/g	102	<6.04E-03	4.28	n/a	n/a	n/a	n/a	0.0613	n/a	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000692		W	12311-97-6	Formate	ug/g	105	<4.67E-03	7.06	n/a	n/a	n/a	n/a	0.0474	n/a	
S10V000692		W	16887-00-6	Chloride	ug/g	104	<9.98E-03	6.43	n/a	n/a	n/a	n/a	0.101	n/a	
S10V000692		W	14797-65-0	Nitrite	ug/g	105	<0.0192	2.47	n/a	n/a	n/a	n/a	0.195	n/a	
S10V000692		W	14808-79-8	Sulfate	ug/g	106	<0.0187	116	n/a	n/a	n/a	n/a	0.190	n/a	
S10V000692		W	338-70-5	Oxalate	ug/g	104	<0.0231	14.3	n/a	n/a	n/a	n/a	0.234	n/a	
S10V000692		W	24959-67-9	Bromide	ug/g	106	<0.0580	<0.589	n/a	n/a	n/a	n/a	0.589	n/a	U
S10V000692		W	14797-55-8	Nitrate	ug/g	105	<0.0208	12.1	n/a	n/a	n/a	n/a	0.211	n/a	
S10V000692		W	14265-44-2	Phosphate	ug/g	104	<0.0167	1.21	n/a	n/a	n/a	n/a	0.169	n/a	J
S10V000693		A	7429-90-5	Aluminum	ug/g	92.4	<0.0300	8.44E+03	n/a	n/a	n/a	n/a	3.00	n/a	
S10V000693		A	7440-39-3	Barium	ug/g	98.4	<3.00E-03	66.3	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000693		A	7440-41-7	Beryllium	ug/g	90.8	<1.00E-03	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S10V000693		A	7440-70-2	Calcium	ug/g	91.7	0.141	6.57E+03	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000693		A	7440-45-1	Cerium	ug/g	94.2	<0.0300	18.4	n/a	n/a	n/a	n/a	3.00	n/a	J
S10V000693		A	7440-48-4	Cobalt	ug/g	92.4	<0.0100	8.84	n/a	n/a	n/a	n/a	1.00	n/a	J
S10V000693		A	7440-47-3	Chromium	ug/g	91.7	<5.00E-03	32.2	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-50-8	Copper	ug/g	101	<5.00E-03	27.1	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7439-89-6	Iron	ug/g	93.3	9.59E-03	2.33E+04	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-09-7	Potassium	ug/g	108	<0.500	958	n/a	n/a	n/a	n/a	50.0	n/a	
S10V000693		A	7439-91-0	Lanthanum	ug/g	97.6	<3.00E-03	9.07	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000693		A	7439-93-2	Lithium	ug/g	111	<3.00E-03	8.70	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000693		A	7439-95-4	Magnesium	ug/g	91.9	<0.0500	4.56E+03	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000693		A	7439-96-5	Manganese	ug/g	91.2	<3.00E-03	320	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000693		A	7439-98-7	Molybdenum	ug/g	94.3	<0.0200	5.12	n/a	n/a	n/a	n/a	2.00	n/a	J
S10V000693		A	7440-23-5	Sodium	ug/g	115	<0.100	580	n/a	n/a	n/a	n/a	10.0	n/a	
S10V000693		A	7440-02-0	Nickel	ug/g	91.8	<0.0200	12.9	n/a	n/a	n/a	n/a	2.00	n/a	Jc
S10V000693		A	7723-14-0	Phosphorus	ug/g	92.7	<0.0500	613	n/a	n/a	n/a	n/a	5.00	n/a	
S10V000693		A	7704-34-9	Sulfur	ug/g	92.9	<0.100	82.9	n/a	n/a	n/a	n/a	10.0	n/a	J
S10V000693		A	7440-21-3	Silicon	ug/g	63.5	<0.0300	90.6	n/a	n/a	n/a	n/a	3.00	n/a	a

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000693		A	7440-24-6	Strontium	ug/g	97.1	<3.00E-03	30.3	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000693		A	7440-32-6	Titanium	ug/g	93.0	<5.00E-03	1.52E+03	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-62-2	Vanadium	ug/g	94.6	<5.00E-03	60.0	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-65-5	Yttrium	ug/g	88.8	<2.00E-03	7.29	n/a	n/a	n/a	n/a	0.200	n/a	
S10V000693		A	7440-66-6	Zinc	ug/g	94.0	<5.00E-03	52.7	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-67-7	Zirconium	ug/g	92.1	<5.00E-03	10.2	n/a	n/a	n/a	n/a	0.500	n/a	b
S10V000693		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	3.19E-05	n/a	n/a	n/a	n/a	2.99E-05	n/a	BJ
S10V000693		A	TH-232	Thorium-232	ug/g	108	<6.80E-05	2.63	n/a	n/a	n/a	n/a	7.26E-04	n/a	
S10V000693		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	5.14E-05	n/a	n/a	n/a	n/a	4.27E-05	n/a	J
S10V000693		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	2.77E-05	n/a	n/a	n/a	n/a	2.13E-05	n/a	J
S10V000693		A	15117-96-1	Uranium-235	ug/g	97.3	<4.40E-06	3.35E-03	n/a	n/a	n/a	n/a	4.69E-05	n/a	
S10V000693		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.71E-05	n/a	n/a	n/a	n/a	1.71E-05	n/a	U
S10V000693		A	13994-20-2	Neptunium-237	ug/g	106	<2.12E-05	<2.26E-04	n/a	n/a	n/a	n/a	2.26E-04	n/a	U
S10V000693		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.446	n/a	n/a	n/a	n/a	2.35E-03	n/a	
S10V000693		A	7440-22-4	Silver	ug/g	104	<1.60E-03	0.0337	n/a	n/a	n/a	n/a	8.54E-03	n/a	J
S10V000693		A	7440-43-9	Cadmium	ug/g	102	<6.00E-04	0.0377	n/a	n/a	n/a	n/a	3.20E-03	n/a	
S10V000694		S	14798-03-9	Ammonium	ug/g	97.1	<0.0120	4.24	n/a	n/a	n/a	n/a	0.471	n/a	J
S10V000695		A	14133-76-7	Technetium-99	ug/g	99.1	<1.50E-04	1.66E-03	n/a	n/a	n/a	n/a	1.60E-03	n/a	J
S10V000695		A	SN-117	Tin-117	ug/g	108	<5.50E-03	<0.0587	n/a	n/a	n/a	n/a	0.0587	n/a	Ub
S10V000695		A	15832-50-5	Tin-126	ug/g	n/a	<1.00E-04	<1.07E-03	n/a	n/a	n/a	n/a	1.07E-03	n/a	Ub
S10V000696		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<2.00E-07	n/a	n/a	n/a	n/a	2.00E-07	n/a	U
S10V000696		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.99E-07	n/a	n/a	n/a	n/a	4.99E-07	n/a	U
S10V000696		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<2.00E-07	n/a	n/a	n/a	n/a	2.00E-07	n/a	U
S10V000696		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.29E-07	n/a	n/a	n/a	n/a	2.29E-07	n/a	U
S10V000696		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.29E-07	n/a	n/a	n/a	n/a	2.29E-07	n/a	U
S10V000697		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<6.40E-07	n/a	n/a	n/a	n/a	6.40E-07	n/a	U
S10V000698		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.23E-05	n/a	n/a	n/a	n/a	1.23E-05	n/a	U
S10V000698		E	15758-45-9	Selenium-79	uCi/g	n/a	<7.37E-07	<1.57E-06	n/a	n/a	n/a	n/a	1.57E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

Appendix 4

Laboratory Narrative and Chain-of-Custody Documentation

222-S LABORATORY

FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7670 IN SUPPORT OF RCRA SOIL CHARACTERIZATION

1.0 INTRODUCTION

This final report presents the results for the samples taken from Waste Management Area C between April 15, 2010 and May 11, 2010. The samples were analyzed in accordance with RPP-PLAN-40564, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C* (FSAP); RPP-PLAN-38777, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C* (SAP); ATL-MP-1011, *ATL Quality Assurance Project Plan for 222-S Laboratory* (QAPP); SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*; and the additional guidance given by the client's point of contact.

Because the 222-S Laboratory facility was designed to analyze hazardous and complex tank waste samples, most SW-846 test methods performed at the 222-S Laboratory contain deviations that are listed in an appendix in the analytical procedures. All other known deviations or variances from SW-846 are documented in this narrative. The following attachments are included in this report.

Attachment 1	Data Summary Report
Attachment 2	Sample Breakdown Diagrams
Attachment 3	Holding Time Report
Attachment 4	Additional Organic Analyses QC Results
Attachment 5	Tentatively Identified Compounds (TIC) for Organic Analyses
Attachment 6	Geological Report
Attachment 7	Characterization Change Notices (CCN) and Correspondence
Attachment 8	Receipt Paperwork

2.0 SAMPLE RECEIPT AND BREAKDOWN

2.1 SAMPLE RECEIPT

A total of nine core intervals and two surface grab samples from core hole C7670 along with eight field blanks and eight trip blanks were received by the 222-S Laboratory between April 15, 2010 and May 11, 2010. The samples were delivered in a cooler with ice or, in the case of the volatile organic samples, in a freezer. The temperatures of the temperature blanks were measured and recorded on the sample receipt check list and/or the chain of custody form.

2.2 SAMPLE BREAKDOWN

The laboratory received each core interval as a set of volatile organic analysis (VOA) samples and three liner samples when complete core recovery was obtained. The VOA samples were made from the shoe section of each core interval following SW-846 5035. The liner samples from each core interval were extruded, described, and composited by the Washington River Protection Solutions, Inc. (WRPS) geologist. The geologist's report is included in Attachment 6. Provided sufficient samples existed, the composite for each core interval was analyzed as described in the SAP and FSAP. Five core intervals (I002, I003, I004, I008, and I009) had less than full recovery (see Attachment 2 and Attachment 8). Interval I004 was extruded and composited in the normal manner. Interval I002 was combined with I003 to form a single composite. Interval I003 was taken immediately below I002 (see Attachment 7, CCN-WMAC-005). Interval I008 was combined with I009 to form a single composite. Interval I009 was taken immediately below I008 (see Attachment 7, CCN-WMAC-006). The surface samples were received as a single grab in a 500-mL jar and a set of VOA samples.

WRPS shipped subsamples of the composites to Test America Laboratories, Inc. (TAL) in St Louis, Missouri and Knoxville, Tennessee to be analyzed for dibutyl and monobutyl phosphate, total petroleum hydrocarbons (diesel and gasoline range), ethylene glycol, chlorinated pesticides, and polychlorinated biphenyls (Aroclors and congeners). TAL subsequently subcontracted the monobutyl and dibutyl phosphate analyses to Southwest Research Institute. The results of these analyses will be released in the final WRPS report.

3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results for those analytes requested in the SAP and FSAP. Secondary analytes are only reported if detected. The TIC from gas chromatography-mass spectrometry (GC/MS) analysis of semivolatile organic compounds (SVOC) is presented in Attachment 5. In addition to the required isotopes, all isotopes with positive gamma energy analysis (GEA) results were reported.

The "Det Limit" column in Attachment 1 contains the method detection limit (MDL) for non-radionuclide analyses, or the minimum detectable activity for radionuclides.

In Attachment 1, the column labeled "A#" indicates the aliquot class or the method used for sample preparation before analysis. For solid samples, the aliquot classes are defined as follows:

"A" indicates samples that were prepared by SW-846 3050B.

"E" indicates samples that were prepared by a strong acid digest.

"O" indicates samples that were extracted for organic analysis.

"S" indicates samples that were prepared by a distillation.

"W" indicates samples that were prepared by a standard water digest.

"WV" indicates samples that were prepared by a "Vadose" water digest.

Samples without a letter identifier in the "A#" column were analyzed directly with no separate preparation or with sample preparation performed as a part of the procedure steps.

The "Qual Flags" column in Attachment 1 contains data qualifier flags that are defined as follows:

> "B" is used to indicate that the analyte was detected in the method or preparation blank and in the sample, and the result for the blank was greater than 5% of the reported sample result.
>
> "J" indicates that the reported result should be considered an estimate because it is below the quantitation limit. The "J" flag is applied to sample concentrations that are greater than the MDL but less than the quantitation limit or sample activity with a counting uncertainty greater than 30%.
>
> "N" indicates a TIC which has been named.
>
> "T" indicates a TIC.
>
> "U" indicates that the reported result is less than the calculated detection limit.
>
> "a" indicates that the laboratory control sample (LCS) was outside of the specified range in the QAPP or SAP.
>
> "b" indicates that the matrix spike (MS) was outside of the specified range in the QAPP or SAP.
>
> "c" indicates that the relative percent difference (RPD) between the sample and the duplicate is greater than 30%.

Manual calculations using rounded results from the Data Summary Report (Attachment 1) or result calculation forms may differ slightly from the actual results derived from the raw data.

3.1 SAMPLE DIGESTIONS

3.1.1 Radiochemistry Strong Acid Digestion

Strong acid digestions with a hot plate for the heat source were performed using a mixture of concentrated nitric and hydrochloric acids. For each digest, approximately 1 to 10 g of sample was digested depending on the analysis being performed. The digestate was then filtered and diluted to a final volume. This digestion was used for all radiochemical analyses except ^{3}H, ^{14}C, and ^{129}I. This digestion is a leach of the acid soluble species only.

3.1.2 SW-846 3050B - Acid Digestion-Heating Block

This acid digestion follows SW-846 3050B using a heating block and nitric and hydrochloric acids. An aliquot of 0.25 g or 5 g of sample was digested. All heating-block digestions were filtered and diluted to a final volume of 50 mL. In soil, this digestion is a leach of the acid soluble species only. This digestion was used for all inductively coupled plasma/mass spectrometry (ICP/MS) and inductively coupled plasma/atomic emission spectroscopy (ICP/AES) analyses except for ^{99}Tc and isotopic tin (^{117}Sn and ^{126}Sn) analyses. The digestion is

modified for the ^{99}Tc analysis by using only nitric acid. This is done to eliminate the possibility of the formation a zinc-chlorine ion pair of mass 99. The laboratory believes this ion, when present, is responsible for low level false positives. A separate digestion for antimony was prepared using additional hydrochloric acid, as recommended in SW-846.

3.1.3 Water Digestion

A water digestion or leach was prepared for the anions by ion chromatography, ^{14}C, and ^{3}H analyses using approximately 0.25 to 4 g of sample diluted to 25 mL. Sonification was used, and the leachate was then filtered. In soil, this digestion is a leach of the water soluble species only.

3.1.4 Vadose Water Digestion

A 70-g sample of soil was leached using a ratio of one part water to one part soil. To maintain a one-to-one ratio, the amount of water added to the sample was adjusted based on the percent moisture of the soil. The slurries were placed on a shaker table for about 1 hour. They were then transferred to a centrifuge tube and centrifuged at 4,000 rpm for 30 minutes. An unfiltered aliquot was set aside for alkalinity analysis. The remainder was filtered using a disposable vacuum filtration system. The filtrates were transferred to a clean bottle and then analyzed for anions using IC nitrate analysis (intervals I005 to I010) and ^{99}Tc by ICP/MS analysis.

3.2 INORGANIC ANALYSES

3.2.1 Cyanide

The cyanide analysis by distillation and spectrophotometry was performed on direct subsamples of the grab samples and liner composite samples. All analyses met the SW-846 holding time of 14 days. There was no required reporting limit in the SAP for cyanide. The target detection limit was 0.5 µg/g, which is at least an order of magnitude lower than the current laboratory method (lachet micro-distillation) can reach.

Batches 19042 and 19150: There were no notable quality control (QC) issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19456: The low level standard (LLS) was recovered outside the ±25% requirement at 65%. Since the results were well below the MDL, there was no affect on data quality. Eleven samples were analyzed between the initial calibration blank and the next calibration verification standard (CCV). This did not meet the requirement in the QAPP; however, since there was no affect on the results, the data was accepted. Reanalysis would have exceeded the holding time for some samples in the batch.

3.2.2 Sulfide

Sulfide analysis by distillation and ion selective electrode was performed on direct subsamples of the grab samples and liner composite samples. All analyses met the SW-846 holding time of 7 days. There was no required reporting limit in the SAP for sulfide. The target detection limit was 5 µg/g. All sample results had adjusted MDLs of approximately 7 µg/g. There were no

notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.3 pH Analysis

The pH analysis was performed on the grab samples and liner composite samples. These analyses met all QC requirements in the FSAP, SAP, and QAPP. The FSAP lists a pH holding time requirement of "as soon as possible." All pH measurements were taken immediately after the water leach was performed, but the sampling to analysis date varied from 2 to 14 days (see Attachment 3). There is no correlation between pH results and days to analysis, and the results fall within an expected range for alkaline soils. This indicates that the variation in time has no apparent effect on the results. The lapse time of up to 6 days for the analysis was due to the time taken between sampling and extrusion/compositing of the liners; most samples fall in to this range. Three samples were analyzed between day 11 and day 14. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.4 Mercury

Analysis for mercury by cold-vapor graphic furnace/atomic absorption was performed on digested subsamples of the grab samples and liner composite samples. All results met the QC requirements in the FSAP, SAP, and QAPP. All analyses met the holding time of 28 days. This analysis met the required and target detection limits.

3.2.5 Ion Chromatography – Ammonium

Analysis for ammonium was performed using a distillation preparation of the grab samples and liner composite samples. The SAP lists an administrative holding time of 7 days. The laboratory believes that after distillation and preservation, the holding time is 28 days, based on U.S. Environmental Protection Agency drinking water and waste water holding times for preserved samples. There is no regulatory holding time limit promulgated for ammonium in soil. All samples met the SAP holding times. These analyses met the target detection limit listed in the SAP. There was no required reporting limit in the SAP or FSAP for ammonium.

Batches 19076, 19246, and 19420: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19029: Ammonium was detected in the preparation blanks at a level below the quantitation limit and above the MDL. Ammonium was also detected in the samples at a similar level; these results have been flagged with a "B". Since all results were below the quantitation limit, reanalysis was not required.

3.2.6 Ion Chromatography – Anions and Small Organic Acids

Ion chromatography analysis was performed on a standard water digest of subsamples from all grab samples and soil composite samples. The laboratory met all of the required and target detection limits. All analyses were within the applicable holding time. The sample spikes used for the standard water digestions are predigestion spikes. Due to the large aliquot size (approximately 70 g) used in the Vadose water digestion, the spikes were post-digestion.

Batches 19058, 19147, and 19446: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 22897: The preparation blank contained nitrite below the quantitation limit, but at greater than 5% of the sample results. All sample results have been flagged with a "B". Since the sample and blank results were below the quantitation level, reanalysis was not required. The RPD for acetate exceeded the ±30% requirement in the SAP and FSAP; however, since the sample result was below the quantitation limit, this criterion does not apply.

3.2.7 Inductively Coupled Plasma/Atomic Emission Spectroscopy

The ICP/AES analysis was performed on an acid-digest (SW-846 3050B) of all grab samples and liner composite samples. The ICP/AES analysis was unable to obtain the required detection limit for antimony, arsenic, cadmium, selenium, silver, and thallium. These elements have been reported from separate ICP/MS analyses. Lead is also reported for some samples. Total uranium has not been reported by the ICP/AES analysis since it cannot meet the required detection limits in the SAP. The isotopic uranium analysis by ICP/MS met the required detection limit for ^{238}U, which is essentially total uranium and can be used in place of ICP/AES total uranium. This does not affect the overall data usability. For all other metals reported by ICP/AES, all target and required detection limits were met. All analysis were within the SW-846 six month holding time.

Batch 19876: The ICSAB had results above the quantitation limits for neodymium and palladium. This indicates that spectral interference was occurring. Neodymium and palladium results were not reported due to the high probability that they were the result of interferences. Results slightly above the MDL for lead, manganese, and tungsten in the ICSA indicate a possible high bias for these elements. However, the recoveries of these elements in the ISCAB were within the ±20% requirement; this would indicate no significant bias. Low levels of iron, zinc, and calcium were detected in the preparation blank, but reanalysis was not required since these levels were less than 5% of the lowest sample result. The MS recoveries for aluminum, calcium, iron, magnesium, and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the sample results for these elements exceeded the matrix spike level by more than four times, this criterion does not apply. The MS recoveries for sodium, silicon, and zirconium exceeded the ±25% requirement. All sample results in this batch for sodium, silicon, and zirconium have been flagged with "b". The exact cause for these failures is not known, but it should be noted that this digestion is not one that should be used to report silicon from siliceous material. It should be noted that silicon is not listed with other elements in SW-846 3050B, section 1.1, under "Scope and Application" for the method. Since none of these were primary analytes, reanalysis was not required. The mid-run continuing calibration blank (CCB) demonstrated a zirconium result slightly above the MDL and below the quantitation level. The blank result was more that 5% of the sample results, and a "B" flag was applied. Since the blank result was below the quantitation limit, reanalysis was not required.

Batch 20066: The MS recovery for potassium exceeded the ±25% requirement in the FSAP and SAP. Since the sample result exceeded the matrix spike level by more than four times, this criterion does not apply.

Batch 20874: The ICSAB had a result above the quantitation limits for neodymium. This indicates that spectral interference was occurring. Neodymium results were not reported due to the high probability that they were the result of this interference. Results slightly above the MDL for cadmium and manganese in the ICSA indicate a possible high bias for these elements. However, the recoveries of cadmium and manganese in the ISCAB were within the ±20% requirement; this indicates no significant bias was present. Low levels of iron and calcium were detected in the preparation blank, but reanalysis was not required since these levels were less than 5% of the lowest sample result. The MS recoveries for aluminum, calcium, iron, magnesium, manganese, potassium, and sodium silicon and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the sample results for these elements exceeded the matrix spike level by more than four times, this criterion does not apply. The RPD for nickel exceeded the ±30% requirement at 51%. All sample results in this batch for nickel have been flagged with "c". The laboratory believes this exceedance may have also been caused by sample inhomogeneity. Additionally, silicon experienced LCS failures and reanalysis was not required for this secondary element. It should be noted that silicon is not listed with other elements in SW-846 3050B, section 1.1, under "Scope and Application" for the method.

3.2.8 Inductively Coupled Plasma/Mass Spectroscopy

The ICP/MS actinide and trace metal analyses were performed on the standard SW-846 3050 acid digestion of all grab samples and liner composite samples. The ICP/MS ^{126}Sn and ^{99}Tc analysis was performed on the sample digest without the addition of the hydrochloric acid. Hydrochloric acid is not used for ^{99}Tc analysis because of the potential formation of a ZnCl ion pair with mass 99. ICP/MS trace metal analysis for antimony was perform on the same digest with additional hydrochloric acid, which is required to keep antimony in solution. In addition to these acid digestions, ICP/MS ^{99}Tc analysis was performed on a vadose water digest.

Direct is the most accurate type of calibration; however, standard material is not commercially available for all the isotopes of interest. Concentrations of those isotopes without available standards are estimated based on the instrument's mass-response curve, which is generated by using the intensity/concentration relationship for the available isotope standards. Results estimated in this manner are designated "semi-quantitative."

Table 1. Inductively Coupled Plasma-Mass Spectroscopy Standards and Spikes

Standard Type	Analytes Analyzed
Initial calibration verification (nondigested)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Acid digest standard (laboratory control standard)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Predigest spike (MS)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Post-digest spike	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
No standard or spike of either type	^{126}Sn, ^{230}Th, ^{233}U, ^{234}U, ^{236}U

3.2.8.1 Technetium-99 and Tin-126

The required detection limit listed in the SAP for ^{99}Tc was met. The target detection limit for ^{99}Tc was not met. There were no required or target detection limits for ^{126}Sn listed in the SAP. The SAP lists a holding time of 6 months for isotopic analytes. All samples were analyzed within the holding time.

Because there is no available source for ^{126}Sn, ^{117}Sn is used to monitor the chemical recovery for this analysis. Though not specifically requested in the SAP, ^{117}Sn is reported for the LCS and MS in order to demonstrate method accuracy and presence of possible matrix interference.

Batch 19814: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 20169: The matrix spike recovered ^{117}Sn outside the ±25% required in the QAPP and SAP at 59%. These samples were initially analyzed in batch 19814 with a similar results. This would indicate that there is a matrix interference for tin when spiked at these levels. All sample results in the batch have been flagged with a “b”.

Batch 20677: The matrix spike recovered ^{117}Sn outside the ±25% required in the QAPP and SAP at 59%. Since the post-digestion spike passed and the previous batch (20169) was reanalyze without improvement of the MS recovery, matrix interference was inferred and reanalysis was not performed. If tin is spiked at a level similar to the one used for the ICPAES analysis, the recoveries are generally within the required ±25%. However, this not appropriate for ^{126}Sn analysis. Results for this analysis should be considered biased low, but the laboratory believes that even sample levels of 10 µg/Kg should be easily detected. All sample results in the batch have been flagged with a “b”.

3.2.8.2 Technetium-99 (Vadose Water Digest)

The required and target detection limits listed in the SAP for ^{99}Tc were met. The SAP lists a holding time of 6 months for isotopic analytes. All holding times were met. A predigestion matrix is not prepared as part of this procedure. This is partially due to the large size of the aliquot—approximately 70 g. All other standard QC requirements were meet for this batch.

3.2.8.3 Actinides

The required and target detection limits were met for all isotopes and in all samples. The SAP lists the holding time for isotopic analytes as 6 months. All samples were analyzed within the holding time.

Batch 19661: The ending LLS for ^{232}Th exceeded the ±30% requirement at 134%. This could indicate a high bias for ^{232}Th results near the LLS level. However, the lowest sample result for ^{232}Th was approximately 100 times the LLS level and the data quality was not affected. The low level MS for ^{232}Th failed at 62%. It is the laboratory’s opinion that this failure is due to inhomogeneity (RPD of 18%) and the ^{232}Th result in the sample being nearly four times the spike amount. If the duplicate result is used to calculate the MS recovery, it is within the ±25% requirement. A higher level spike was also analyzed; it passed at 100%. This was discussed with

the client, and the laboratory was instructed to report the low level MS (see details discussed in Attachment 7).

Batch 20266: Th-230 was detected in the preparation blank at the MDL. However, this was more than 5% of one sample in the batch, which had a result slightly above the MDL. This sample was flagged with a "B". The ending LLS for ^{235}U exceeded the ±30% requirement at 53%. This could indicate a low bias for ^{235}U results near the LLS level. However, the lowest sample result for ^{235}U was approximately 25 times the LLS level and the data quality was not affected.

Batch 23864: Th-230 was detected in the preparation blank just above the MDL. However, this was more than 5% of the sample, which had a result above the MDL, but below the quantitation limit. This sample was flagged with a "B".

3.2.8.4 Trace Metals

Antimony, arsenic, cadmium, selenium, silver, and thallium were analyzed by ICP/MS to obtain the required detection limits in the SAP. Lead was also reported in four samples. Except for the required detection limit for selenium, all required and target detection limits were met or the sample results were above the quantitation limit, and the sample detection limit criteria do not apply. The required detection limit for selenium was approximately an order of magnitude below the detection limit obtained by using ICP/MS. The laboratory does not anticipate reaching this detection limit for future projects. The reporting limit for selenium ranged from 0.3 µg/g to 0.6 µg/g depending on the matrix interference encountered during the analysis. SW-846 lists the holding time of metals as 6 months. All samples were analyzed within the holding time except for sample B23KP9 (S10V003308), which was reanalyzed for arsenic one day into the 7th month. The laboratory does not believe the result was affected.

Batch 20363 and 23807: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19915: Two of the LLSs for selenium exceeded the ±30% requirement at 64% and 67%. This could indicate a low bias for selenium results near the LLS level. However, since the selenium signal was well below the MDL, the data quality was not affected.

Batch 20171: Thallium was detected in the preparation blank below the quantitation limit. The blank result was approximately 30% of the sample results, and a "B" flag was applied. Since the blank result was below the quantitation limit and the all sample results were below the required detection limit, reanalysis was not required.

Batch 20590: The first CCB had a result for antimony slightly above the MDL. All affected samples have been flagged with a "B". Since the blank result was below the quantitation limit, reanalysis was not required. The duplicate RPD for antimony was outside the ±30% requirement in the SAP and FSAP at 37%. The laboratory believes this was a result of sample inhomogeneity. Additionally, the sample result was well below the required detection limit. With customer agreement (see Attachment 7), all results were flagged with "c" and reported.

Batch 23628: The closing LLSs for selenium exceeded the ±30% requirement at 152%. This could indicate a high bias for selenium results near the LLS level. However, since the selenium signal was well below the MDL, the data quality was not affected.

3.3 RADIOCHEMICAL ANALYSIS

The holding time listed in the SAP for radioactive isotopes is 6 months. The FSAP list the holding time as "none." SW-846 does not address holding times for radiochemical analytes. All radiochemical analyses met the 6-month holding time listed in the SAP. With the exception of the ^{14}C and ^{3}H analyses, tracers and spikes are added prior to the digestion. The laboratory is investigating the possibility of performing predigestion spikes for the ^{3}H and ^{14}C analyses.

3.3.1 Gamma Energy Analysis

GEA was performed directly on approximately 60 mL of soil from all grab samples and liner composite samples. The SAP requires the reporting of all isotopes with positive results above the minimum detectable activity (MDA); therefore, isotopes in addition to those required in the SAP were report when detected. The GEA analysis met all of the required detection limits in the SAP. The laboratory was unable to meet any of the target detection limits.

Batch 19658: The RPD for ^{212}Pb and ^{40}K exceeded the ±30% requirement in the SAP and FSAP. Since relative error for ^{40}K exceeded 30%, the result is considered to be below the quantification limit and this criterion does not apply. The ^{212}Pb result was above the quantification level, and a "c" has been applied to the results. However, since ^{212}Pb is not a required analyte, reanalysis was not required.

3.3.2 Strontium-89/90

Strontium-89/90 analysis was performed on a strong acid digest of all grab samples and liner composite samples. All of the sample analyses met the required and target detection limits. The FSAP and SAP requested ^{90}Sr, not $^{89/90}Sr$, be reported. The 222-S Laboratory only performs the latter analysis. Since the half-life for ^{89}Sr is approximately 51 days and ^{89}Sr has not been produced at Hanford for years, $^{89/90}Sr$ is essentially ^{90}Sr. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.3 Tritium

The ^{3}H analysis by liquid scintillation counting (LSC) was performed on a water leach of all grab samples and liner composite samples. This method only measured the ^{3}H in the samples that could be dissolved in water. This analysis achieved the required and target detection limits in the FSAP. There were no notable issues with the ^{3}H batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.4 Selenium-79

The ^{79}Se analysis by LSC was performed on a strong acid digest of all grab samples and liner composite samples. The analysis achieved the target detection limit in the FSAP. No required

detection limit was listed. No standard is currently available for ^{79}Se. A cold carrier is used to monitor recovery and is measured gravimetrically. The ^{14}C LSC curve is used to determine the ^{79}Se results since their energies are similar.

Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%. There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.5 Carbon-14

The ^{14}C analysis by LSC was performed on a water leach of all grab samples and liner composite samples. The analysis achieved the required detection limit in the FSAP but exceeded the target detection limit. This analysis will only detect water soluble forms of ^{14}C. There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.6 Nickel-63

The ^{63}Ni analysis by LSC was performed on a strong acid digest of all grab samples and liner composite samples. The analysis achieved the required and target detection limits in the FSAP. There were no notable issues with these ^{63}Ni batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%.

3.3.7 Iodine-129

Analysis for ^{129}I by low energy GEA was performed on an iodine-specific fusion digest of all grab samples and liner composite samples. The required detection limit in the SAP was met. Four samples slightly exceeded the 2 pCi/g required detection limit with detection limits between 2.5 and 2.7 pCi/g. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.8 Americium-241, Curium-243/244, and Curium-242

Analysis for ^{241}Am, $^{243/244}$Cm, and ^{242}Cm by alpha energy analysis (AEA) was performed on a strong acid digest of all grab samples and liner composite samples. For this analysis, there were no notable issues and all QC requirements in the FSAP, SAP, and the QAPP were met. The required and target detection limits in the SAP were met. The SAP and FSAP requested ^{243}Cm and ^{244}Cm be reported separately. Since it is not possible to resolve these individual isotopes when using AEA, these isotopes have been report as $^{243/244}$Cm.

3.3.9 Plutonium-238 and Plutonium-239/240

Plutonium isotopic (^{238}Pu and $^{239/240}$Pu) analysis by AEA was performed on a strong acid digest of all grab samples and liner composite samples. For this analysis, there were no notable issues with any batches and all QC requirements in the FSAP, SAP, and the QAPP were met. The required and target detection limits in the SAP were met.

3.4 ORGANIC ANALYSES

3.4.1 Volatile Organic Analysis

The VOA by GC/MS was performed on all field samples by purge and trap. Field sampling methods, sample containers, and preservation methods followed SW-846 5035. The soil samples were delivered in a freezer, in pre-weighed VOA vials with magnetic stir bars and approximately 5 g of sample. After receipt, the VOA samples were stored in a freezer. For each sample interval, an additional high level sample preserved in methanol was also received. These were not used because none of the results for the frozen samples were above the calibration range. The exact weight of the sample and the tare weight of the VOA vials were recorded by sampling personnel and delivered with the samples. Eight field blanks and eight trip blanks were also received and analyzed. The samples were preserved with either HCl or H_2SO_4 to a pH < 2. All samples met the required holding times except for samples B23KN6 (S10V000368) and B23KN9 (S10V000369), which were placed in a refrigerator instead of a freezer. This reduces the holding time to 48 hours (see Attachment 3). Due to this taking place over a weekend, the sample storage error was not detected for approximately 90 hours. The samples were then properly stored and later analyzed.

The VOA analysis met the target and required detection limits in the SAP. The SAP and FSAP requested m-xylene and p-xylene be reported separately. Since it is not possible to resolve these individual compounds when performing VOA by SW-846 8260B, these compounds have been report as m+p xylene. The SAP and FSAP request that methanol be reported with this analysis; however, this compound is too polar to be purged and cannot be reported (see Attachment 7).

All field and trip blanks contained chloroform above the estimated quantification level. Since chloroform is a common chlorination byproduct, the laboratory believes the source of chloroform was the water used by sampling personnel to make the various blanks.

The laboratory method blanks generally contained a very low level of toluene, which was also present in the samples at a similar level. The blank contamination was usually just above the MDL and always below the quantitation limit. This contamination was 4 to 5 orders of magnitude below the required detection limit and 17 to 90 times less than the target detection limit. For these reasons, reanalysis was not necessary. “B” flags have been applied when appropriate. For analyses performed after these, toluene was only occasionally found in the blank. The laboratory is not sure of the source of the toluene, but it may be related to construction or maintenance activities.

All laboratory blanks for the liquid sample batches contained acetone at a level slightly below the quantitation level, based the low calibration. Some blanks were 30 to 50 times the MDL. Fortunately, the samples contained only a trace of acetone; most results were below the MDL and all were below the quantitation level. “B” flags have been applied when appropriate. For this reason, reanalysis was not required. The laboratory believes that this relatively high level of acetone in the method blanks was due to contamination in the hydrochloric acid used in the blanks. For analyses performed after these, acetone was only occasionally found in the blank and generally at a level below the quantitation level.

LCS, MS, and matrix spike duplicate (MSD) recoveries were compared against the laboratory's statistical process control (SPC) limits, as required by SW-846. The use of SPC limits is allowed in the FSAP, SAP, and QAPP.

Batch 18960: The method blank contained toluene as discussed above.

Batch 19080: The method blank contained acetone and toluene as discussed above.

Batch 19081: The method blank contained acetone and toluene as discussed above. The MS and MSD sample vials failed to purge, and no MS/MSD pair is contained in this batch. Since additional MS/MSD pairs exist for the field QC samples for this core hole, client requirements have been meet (see Attachment 7).

Batch 19123: The MS was recovered above the statistically determined limits for acetone, hexone, and 2-butanone. All sample result for hexone and 2-butanone were below the MDL, and the data usability was not affected. One sample had a result above the quantitation limit. This result should be considered biased high. Reanalysis was not performed due to the holding time. All results for these compounds have been flagged with a "b". The method blank contained toluene as discussed above.

Batch 19447: The LCS recovery for acetone was above the upper limit of 139% at 152%. Due to the holding time limitation, reanalysis was not performed. Since the result for acetone was below the quantitation limit and flagged with a "J", the data usability was not affected and reanalysis was unnecessary. The result has been flagged with an "a". The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 26%, which indicates a high bias for these compounds. Since the acetone result was below the quantitation level and the trans-1,2-dichloroethene was non-detect, the CCV was acceptable. The method blank contained acetone and toluene as discussed above.

Batch 19485: The LCS recovery for acetone was above the upper limit of 139% at 160%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were either below the MDL or below the quantitation limit and flagged with a "J", the data usability was not affected and reanalysis was unnecessary. The result has been flagged with an "a". The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 24% and 31%, respectively, which indicates a high bias for these compounds. Since the acetone results were below the MDL or below quantitation level and the trans-1,2-dichloroethene was non-detect, the CCV was acceptable. The method blank contained acetone and toluene as discussed above. The MS for 1-butanol failed low at 69%. Due to the holding time limitation, reanalysis was not performed. All sample results were below the MDL and have been flagged with a "b".

Batch 19486: The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 24% and 31%, respectively, which indicates a high bias for these compounds. Since the acetone and 1,2-Dichloroethene results were below the MDL, the CCV was acceptable. The LCS recovery for acetone was above the upper limit of 134% at 150%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were below the MDL, the data usability was not affected and reanalysis was unnecessary. All results for acetone in the batch have been flagged with "b".

Batch 19566: It is apparent from the following discussion that this batch should have been reanalyzed; however, due to a pending instrument outage and an expiring holding time, these are the only results available. With the exception of acetone, all QC failures indicate a high bias; the impact on the data is minimal. 2 Hexanone was detected in the sample and method blanks above the MDL and below the quantitation limit. The sample results have been flagged with a "B". Since the results were below the quantitation limit, reanalysis was not required. The MS failed high for acetone, 2-butanone, 2-hexanone, and hexone. The acetone and 2-hexanone results were above the MDL. All results have been flagged with a "b". Since the 2-hexanone result was below the quantitation limit and flagged with "J", this result was not affected. The acetone result was above the quantitation limit and should be considered biased high. A "J" flag has been applied to this result. The LCS for acetone failed high, again indicating a high bias, and the result has been flagged with an "a". Two CCVs were analyzed with this batch; the closing CCV was normal with only 2 compounds slightly above the ±20% requirement. However, the first CCV had six primary analytes above this requirement. As previously discussed, only acetone was affected by this high bias. The method blank contained toluene as discussed above.

Batch 19680: The LCS recovery for acetone was above the upper limit of 136% at 172%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were below the quantitation limit or below the MDL and flagged with a "J" or "U", the data usability was not affected and reanalysis was unnecessary. The results have been flagged with an "a". The % difference for 2 hexanone was high at 21%, which indicates a high bias for these compounds. Since 2-hexanone was below the quantitation limit and is not a primary analyte, the CCV was acceptable. The method blank contained acetone as discussed above.

Batch 20082: The method blank contained m,p-xylene at a level slightly above the MDL. Since the sample result for this compound was below the MDL, the blank was acceptable. The method blank contained toluene as discussed above. The RPD between the MS and MSD exceeded the ±30% requirement at 67%. Since the sample result was 72.5 ug/kg, the blank result was below the MDL, and all other QC for acetone was acceptable, inhomogeneity is suspected. Reanalysis was not performed due to holding time expiration.

Batch 20256: The method blank contained acetone and toluene as discussed above.

3.4.2 Semivolatile Organic Analysis

The semivolatile organic analysis (SVOA) by GC/MS was performed on methylene chloride extractions of all grab samples and liner composite samples. All holding times were met.

The SVOA analysis met the required and target detection limits with two exceptions:

- The adjusted MDLs for cyclohexanone were above the 0.5 mg/kg target detection limit for most samples. This compound obtained detection limits between 0.5 mg/kg an 0.6 mg/kg.
- The adjusted MDLs for di-n-butyl-phthalate were above the target detection limit of 0.33 mg/kg. The analysis achieved a detection limit of between 0.5 mg/kg and 0.6 mg/kg for this compound.

The LCS, MS, and MSD recoveries were compared against the laboratory's SPC limits, as required by SW-846. The use of SPC limits is permitted in the FSAP, SAP, and QAPP.

The SAP and FSAP requested m-cresol and p- cresol be reported separately. Since it is not possible to resolve these individual compounds when performing SVOA by SW-846 8270C, these compounds have been report as m+p cresol.

Isobutanol is listed as a required volatile organic compound in the FSAP. Since it does not purge well, it was analyzed as using SVOA.

Batch 19182: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batches 19296 and 19488: Butylbenzylphthalate was detected in the method blank slightly above the MDL and below the quantitation limit. This compound was detected in the samples at a similar level and has been flagged with a "B". Since all results were below the quantitation level, reanalysis was not required and the blank is acceptable.

Batch 19779: The MS recovery for 4-Chloro-3-methylphenol was above the 103% upper limit at 108%. Since this compound was not detected in the sample, reanalysis was not required.

3.4.3 Tentatively Identified Compounds

Unassigned peaks or TICs were treated as follows. Standards were obtained and analyzed for each secondary analyte identified in the SAP. This data was accumulated in the Hanford library. Following analysis, the largest TICs, with instrument responses greater than 10% of the response of the nearest internal standard, were evaluated and compared to the Hanford library. The estimated concentration of these TICs was calculated using measured response factors from the Hanford library compound list.

After comparison to the Hanford library, remaining unknowns were compared to the National Institute of Standards and Technology's *HP Mass Spectral (compound) Libraries* (NIST 02). The estimated concentration of compounds identified in the NIST library was calculated based on an arbitrary response factor of 1.0. If the compounds were not identified as a result of this comparison, they were reported as "unknown." Summaries of the SVOA and VOA TICs from the field samples and method blanks are provided in Attachment 4. TICs that were found in the field samples and were present in the associated batch method blank have been flagged with "B".

4.0 PROCEDURES

Table 2 lists the analytical procedures used for analysis of the Area C samples.

Table 2. Analytical Procedures

Analysis	Preparation Method	Analysis Procedure
Inorganic Analyses		
Cyanide	LA-695-103, Rev. I-0, J-0 (SW-846 9010C)	LA-695-103, Rev. J-0 (SW-846 9014)

Analysis	Preparation Method	Analysis Procedure
Sulfide	LA-361-101, Rev. D-0 (SW-846 9030B)	LA-361-101, Rev. D-0 (SW-846 9215)
pH (solid)	LA-212-105, Rev. G-0 (SW-846 9045D)	LA-212-105, Rev. G-0 (SW-846 9045D)
pH (liquid)	Direct	LA-212-106, Rev. H-0 (SW-846 9040D)
Mercury – Cold Vapor Atomic Absorption	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)
Ammonia – IC	LA-544-112, Rev. E-0	LA-533-101, Rev. Q-0
Anions & Organic Acids – IC	LA-504-101, Rev. L-0	LA-533-115, Rev. J-0
Metals – ICP /AES	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-505-161, Rev. J-0-A (SW-846 6010C)
^{99}Tc, ^{126}Sn – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. F-1
^{99}Tc – ICP/MS	08-ATL-078 Vadose Water Digest	LA-506-103, Rev. A-0
Metals – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. E-0, F-1 LA-506-103, Rev. A-0 (SW-846 6020A)
Actinides – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-1-2, Rev. F-1 LA-506-103, Rev. A-0
Radiochemical Analyses		
GEA	Direct	LA-548-121, Rev. I-0
^{90}Sr – Separation/Beta counting (Solid)	LA-544-101, Rev. F-0	LA-220-103, Rev. J-0
^{90}Sr – Separation/Beta counting (Liquid)	LA-220-104, Rev. I-0	LA-220-104, Rev. I-0
^{3}H – LSC	LA-504-101, Rev. L-0	LA-218-111, Rev. G-0
^{14}C – LSC	LA-504-101, Rev. L-0	LA-348-104, Rev. H-0
^{79}Se – Separation/LSC	LA-544-101, Rev. F-0	LA-365-132, Rev. I-0
^{63}Ni – Separation/LSC	LA-544-101, Rev. F-0	LA-285-102, Rev. E-0
^{129}I – Separation/GEA	LA-378-105, Rev. C-0	LA-378-105, Rev. C-0
^{241}Am, $^{243/244, 242}$Cm – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
$^{239/240, 238}$Pu – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
Organic Analyses		
VOC – GC/MS	Direct	LA-523-118, Rev. G-O-A (SW-846 8260B)
SVOC – GC/MS	LA-523-138, Rev. F-0 (SW-846 3540C)	LA-523-135, Rev. C-0, D-0 (SW-846 8270C)

5.0 REFERENCES

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SW-846, 1986, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods,* Third Edition, as amended, U.S. Environmental Protection Agency, Washington, D.C.

RPP-PLAN-40564, 2009, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C,* Rev. 2, Washington River Protection Solutions, Inc.

RPP-PLAN-38777, 2009, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C*, Rev. 1, Washington River Protection Solutions, Inc.

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-032	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 1	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	surface	n/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MR0	WATER	4-15-10	1010
S10V000310			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	[illegible]	4/15/10 @1410

SPECIAL INSTRUCTIONS
cooler 1 L

22252010016O

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	V10-002-022	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Trip Blank 1	WMA C Sampling for CMS - QC Sampling	V10-002

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFV2-09-003	TFV2-09-000001	Surface	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238F5	WATER	4-15-10	0925
S10V000320			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell		[signature]	4/15/10 @1410

SPECIAL INSTRUCTIONS
11c cooler

222S20100160

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	V10-003-055	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KN6	SOIL	4-15-10	1010	✓	✓	
S10V000368	Lo					
S10V000369	Hi					
DPR 379						
4-20-10						

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	B Tullock	4/15/10 @ 1410
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

Freezer - 11c
Cooler 11c

22225201 0213

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	V10-003-054	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23K87	SOIL	4-15-10	1010	✓
S10V000390				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-pbell	4-15-10 1410	D Tuttle	4/15/10 @ 1410
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

Cooler 1°C
Freezer -1°C

222S20100213

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	V10-003-053	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23R25	SOIL	4-15-10	1010	✓
S10V000401				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	TM Gollock	4/15/10 @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

(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;

cooler 11c

22252010021 3

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	V10-003-058	PAGE 1 OF 1

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.**		
C7670 Surface Dup	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-000001	TFV2-09-00000	Surface Dup	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KN9	SOIL	4-15-10	1010	✓	✓
S10V000369	Lo				
S10V000380	Hi				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	D McCollock	4/15/10 @ 1410

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.

Freezer -11c
Cooler 11c

222S20100213

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	V10-003-057	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
C7670 Surface Dup	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** B-4-15-10 ~~B~~C N/9	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	Surface Dup		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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN8	SOIL	4-15-10	1010	✓
S10V000391				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	TM Estbek	4/15/10 @ 1410

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.

Coolers 11 C
Freezer 11 C

222S20100213

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	V10-003-056	PAGE 1 OF 1

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.**		
C7670 Surface Dup	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	Surface Dup	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	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN7	SOIL	4-15-10	1010	✓
S10V000402				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	D Tuckett	4/15/10 @1410

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;

cooler 11 c

222S20100213

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	V10-002-033	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 2	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	5-7	n/a	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR1	WATER	4-20-10	1214	✓
510V000311				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	T McCollock	4/20/10 @1350

SPECIAL INSTRUCTIONS

2225 2010060

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-023	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 2	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	5-7	n/a	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238F6	WATER	4-20-10	1214	✓
510V000321				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	D Tuttle	4/20/10 @ 1350

SPECIAL INSTRUCTIONS

22262010016 0

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-060	PAGE 1 OF 1

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.**		
C7670 I001	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	5-7	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN5	SOIL	4-20-10	1245	✓
510V000392				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	M Collock	4/20/10 @ 1350

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.

22252010021 3

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-061	PAGE 1 OF 1

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.**		
C7670 I001	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	5-7	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KN4	SOIL	4-20-10	1245	✓	✓	
S10V000370	Lo					
S10V000381	Hi					

CHAIN OF POSSESSION / **SIGN/PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	B Tuteboch	4/20/10 @ 1350

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.

222S20100213

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-059	PAGE 1 OF 1

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.**		
C7670 I001	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-00000	5-7	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)	2 BC 4-20-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238J9	SOIL	4-20-10	1245	✓
S10V000412				
S10V000413				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	Treftock	4/20/10 @ 1350

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;

222S20100213

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-034	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 3	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
~~TFVZ~~ - 09-003	TFVZ-09-000001	10 - 12	N/A	GOVERNMENT VEHICLE	
SHIPPED TO BRC 4/22/10	**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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MR2	WATER	4/22/10	0830
S10V000312			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	4-22-10 1200	RKSteele	4-22-10 1200

SPECIAL INSTRUCTIONS

-0°C +B
RKS

222S20100160

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	V10-002-024	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 3	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	10-12	n/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP2	WATER	4-22-10	0820	✓
S10V000322				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RKSteele RKSteele	4-22-10 1200

SPECIAL INSTRUCTIONS
-0°C TB RK

222S20100160

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	V10-003-064	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	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	10-12	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 <-7C and >-20C	MEOH/Cool~4 C		
TYPE OF CONTAINER	Gs	Gs		
NO. OF CONTAINER(S)	5	3		
VOLUME	40mL	40mL		
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B23KP2	SOIL	4/22/10	0915	✓	✓								
S10V000371	Low Level VOA												
S10V000382	High Level VOA												

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RHBak RHBak	4-22-10 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

** 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.

-12°C TB
RH

222S 20100213

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	V10-003-063	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-09-000001	10-12	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	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~4C											
TYPE OF CONTAINER	Gs											
NO. OF CONTAINER(S)	1											
VOLUME	40mL											
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B23KP1	SOIL	4/22/10	0915	✓									
S10V000393	MeOH Blank												

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Horte	4-22-10 1200	RHTL RHTL 6616	4-22-10 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

** 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.

-0 C TB
RHL

222S20100213

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	V10-003-062	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	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	10-12	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)	~~2~~ 4-22-10 1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP0	SOIL	4/22/10	0915	✓
S10V000415				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	R Kistler RK Kistler	4-22-10 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;

-0°C TO RK

222S 20100213

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	V10-003-065	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I003	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	12-14	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/Jars 500 ml
NO. OF CONTAINER(S)	3 BC 4-22-10 2
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP3	SOIL	4/22/10	945	✓
S10V000416	Liner A			
S10V000417	Shoe			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris 4-22-10	1200	RAtlas RASteele 4-22-10	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

** 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;

α TB
RAtlas

222S 20100213

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		V10-003-070	PAGE 1 OF 1
COLLECTOR: HARRIS	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P
SAMPLING LOCATION: C7670 I004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-04-00000	ACTUAL SAMPLE DEPTH: 14-16	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A	

DATA TURNAROUND: 75 Days / 75 Days

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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KP8	SOIL	4/22/10	1055	✓	✓
S10V000373	Low Level VOA				
S10V000384	High Level VOA				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	4-22-10 1200	[illegible]	4-22-10 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

** 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.

0°C TB RK
-12°C TB RK

222S20100213

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			V10-003-069	PAGE 1 OF 1
COLLECTOR Harris	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7670 I004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFV2-09-003	FIELD LOGBOOK NO. TFV2-09-000001	ACTUAL SAMPLE DEPTH 14-16	COA N/A	METHOD OF SHIPMENT Govt. 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	Cool~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP7	SOIL	4-22-10	1055	✓
S10V000395	MeOH Blank			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	4-22-10 1200	RHSteele	4-22-10 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

** 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.

0°CTB
RA

222S20100213

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	V10-003-068	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I004	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	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~~ 2 BC 4-22-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP6	SOIL	4-22-10	1055	J
S10V000821	Liner A			
S10V000822	Liner B			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	4-22-10 1200	RHSteele	4-22-10 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;

0°CTB
RKB

222S 20100213

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	V10-002-035	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Field Blank 4	WMA C Sampling for CMS - QC Sampling	V10-002

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVZ-09-003	TFVZ-09-000001	39' - 41'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR3	WATER	4-23-10	0855	✓
SDV000313				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RHSteele RHSteele	4-23-10 1150

SPECIAL INSTRUCTIONS

0°C TB RA

222S 20100160

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	V10-002-025	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 4	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	39' - 41'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP3	WATER	4-23-10	0855	✓
S10V000323				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RD Stal RJ Steele	4-23-10 1150

SPECIAL INSTRUCTIONS

-0°C TS
RS

222S 20100160

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			V10-003-073	PAGE 1 OF 1
COLLECTOR: Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-~~000002~~ 000001	ACTUAL SAMPLE DEPTH: 39-41	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: RES 4/23/10 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	Cool <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3 ✓
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KR1	SOIL	4/23/10	0943	✓	✓
S10V000374	Low level				
S10V000385	High level				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RHTeale RHTeale	4-23-10 1150
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

0°C TB RB / -7°C RB RB

222S20100213

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	V10-003-072	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.**		
C7670 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	39-41	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF):

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR0	SOIL BC 4-23-10 Liquid	4-23-10	0943	✓
S10V000396	MeOH			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BC_pbell	4-23-10 1150	RLSteele RLSteele	4-23-10 1150
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

OCTB
RK

222S 20100213

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	V10-003-071	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.**		
C7670 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	39-41	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	
B23KP9	SOIL	4-23-10	0943	✓
S10V000 824	Liner A			
825	Liner B			
826	Liner C			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RA Steele RA Steele	4-23-10 1150

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;

OC + B
-0 RK

222S 20100213

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	V10-002-036	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 5	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	139-141	n/a	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR4	WATER	5-4-10	0925	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-pbell	5-4-10 1215	RLSteele RLSteele	5-4-10 1215

SPECIAL INSTRUCTIONS

0°C TB

GRP# 222S20100160

Sample# S10V000314

omni pts ✓

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	V10-002-026	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 5	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	139-141	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MP4	WATER	5-4 ~~4-5~~ 10	0925
		B: 5-4-10	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell / B Campbell	5-4-10 1215	[illegible]	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

0 C 1 B

222S20100160
S10V000324

omni
LAV

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	V10-003-076	PAGE 1 OF 1

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.**		
C7670 I006	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	139-141	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KR4	SOIL	5-4-10	1002	✓	✓	
S10V000375	Lo					
386	Hi					

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RL Bischoff DC-Bischoff	5-4-10 1215	RA Steele	5-4-10 1215

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.

-0°C TB / -7°C TB
222S20100213
S10V000375
S10V000386

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	V10-003-075	PAGE 1 OF 1

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.**		
C7670 I006	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	139-141	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR3	SOIL	5-4-10	1002	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-4-10 1215	RHHart RHHart	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

-0 °C TB

222S20100213
S10V000397

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	V10-003-074	PAGE 1 OF 1

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.**		
C7670 I006	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	139'- 141'	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	
B23KR2	SOIL	5-4-10	1002	✓
S10V000 827	A			
828	B			
829	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-4-10 1215	R Steele R Steele	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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;

0°C TB 222S20100213
S10V000 827 → 829 omit

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-037	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 6	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	163-165	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR5	WATER	5-5-10	08:56	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-5-10 1130	RHSteele RHSteele	5-5-10 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

-1°C TB
RHSteele

~~222S010213~~
~~S10V000830 831, 832~~
RHSteele 5.5.10
222S010016O
S10V000315

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			V10-002-027	PAGE 1 OF 1
COLLECTOR: Harris / Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C7670 Trip Blank 6	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V10-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-09-000001	ACTUAL SAMPLE DEPTH: 163' - 165'	COA: n/A	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	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP5	WATER	5-5-10	08:56	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-5-10 1130	RHSteele RHSteele	5-5-10 1130

SPECIAL INSTRUCTIONS
1 °C TB
RHSteele

22252010016O
S10V000325

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-079	PAGE 1 OF 1
COLLECTOR: Campbell / Harris	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 163 – 165	COA: n/A	METHOD OF SHIPMENT: Govt. 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	Cool <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KR7	SOIL	5-5-10	1030	✓	✓	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: BCampbell BCampbell	DATE/TIME: 5.5.10 1130	RECEIVED BY/STORED IN: RtSteele RtSteele	DATE/TIME: 5.5.10 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

** 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°C TB
pH
-8°C TB
pH

222S20100213
S10V000376-LO
S10V000387-Hi

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	V10-003-078	PAGE 1 OF 1

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.**		
C7670 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	163-165	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR6	SOIL	5-5-10	1030	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-pbell	5-5-10 1130	RKSteele RKSteele	5-5-10 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

** 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°C TB
RKSteele

2225 20100214 213 RKSteele 5-5-10
510V000398

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-077	PAGE 1 OF 1

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.**		
C7670 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	163-165	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	
B23KR5	SOIL	5-5-10	1030	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5.5.10 1130	RtSteele RtSteele	5.5.10 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;

-1°C TB
RK

222SC0100213
510V000 830, 831, 832
A B C

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-038	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7670 Field Blank 7	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	220' - 222'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR6	WATER	5-7-10	11:30	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	R.L. Steele R.L. Steele	5-7-10 1300

SPECIAL INSTRUCTIONS
1°C TB
RK

GRP# 22252010160
SAM# S10V000316

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			V10-002-028	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7670 Trip Blank 7	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V10-002	AIR QUALITY: ☐	
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-09-000001	ACTUAL SAMPLE DEPTH: 220'-222'	COA: N/A	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	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MP6	WATER	5-7-10	11:30
S10V000326			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	RASteele RASteele	5-7-10 1300

SPECIAL INSTRUCTIONS
1 °C TB
RK

20100160

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	V10-003-081	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 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-09-000001	5/13/10 5' ~~200'~~ 220' - 222'	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR9	SOIL	5-7-10	1215	✓
S10V000399	Methanol Blk			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	R.T. Steele R.T. Steele	5.7.10 1300

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 oc TB RK 20100213

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	V10-003-080	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 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-09-000001	220' - 222'	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)	~~1~~ 2 SAS 5-7-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR8	SOIL	5-7-10	1215	✓
S10V000834	B			
835	C			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris, Dan Harris	5-7-10 1300	Rhetta Steele	5-7-10 1300

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;

1 °C TB RK 20100213

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	V10-002-039	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
B. Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Field Blank 8	WMA C Sampling for CMS - QC Sampling	V10-002 N/A

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVZ-09-003	TFVZ-09-000001	222-224	N/A	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR7	WATER	5-11-10	1255	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BC-Campbell	5-11-10 1420	Rstedt	5/11/10 1420

SPECIAL INSTRUCTIONS

QC

GRP# 20100160
SAM# S10V000317

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	V10-002-029	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 8	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	222-224	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP7	WATER	5-11-10	1255	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	5-11-10 1420	R Steedg R Steedg	5-11-10 1420

SPECIAL INSTRUCTIONS
λ °C TB
pK
GRP # 20100160
SAM # S10V000327

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	V10-003-085	PAGE 1 OF 1

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.**		
C7670 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-09-00000	222-224	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 <-7C and >-20C	MEOH/Cool~4 C		
TYPE OF CONTAINER	Gs	Gs		
NO. OF CONTAINER(S)	5	3		
VOLUME	40mL	40mL		
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);		

No sample RAHeadt 5-11-10

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KT3	SOIL	5-11-10	1335	✓		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	5-11-10 1420	RAHeadt RASteele	5.11.10 1420
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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°C TD
-8°C RK

GRP# ~~20100213~~ RK
20100213
Sam# S10V000378

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	V10-003-083	PAGE 1 OF 1

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.**		
C7670 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	222-224	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)	1 SAS 2 11-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KT1	SOIL	5-11-10	1335	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Cpbell C-pbell	5-11-10 1420	RE Steele RE Steele	5-11-10 1420

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;

λ°C TB

GRP# 20100213
SAM# S10V000836
" 837

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Appendix 5

Data Validation Supporting Documentation

VALIDATION LEVEL:	A	B	(C)	D	E
PROJECT: WMA C (C7670)			DATA PACKAGE: VSR11-035		
VALIDATOR: Carl Schloesslin		LAB: 222-S Lab		DATE: 5-12-2011	
			SDG: 20100213		
ANALYSES PERFORMED					
Anions/IC X	TOC	TOX	TPH-418.1	Oil and Grease	Alkalinity
Ammonia X	BOD/COD	Chloride	Chromium-VI	pH X	NO_3/NO_2
Sulfate	TDS	TKN	Phosphate	Cyanide X	Sulfide X

SAMPLES/MATRIX Soil samples

B23R25, B23KN7, B238J9, B25CN2*, B23KP6, B23KP9, B23KR2, B23KR5, B25ND7**

*Sample B25CN2 is a composite of samples B23KP0 & B23KP3
**Sample B25ND7 is a composite of samples B23KR8 & B23KT1

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 performed on all instruments? ..... Yes No N/A

Initial calibrations acceptable? ..... Yes No N/A

ICV and CCV checks performed on all instruments? ..... Yes No N/A

ICV and CCV checks 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:

3. BLANKS (Levels B, C, D, and E)

ICB and CCB checks performed for all applicable analyses? (Levels D, E) ..... Yes No N/A

ICB and CCB 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 blanks analyzed? (Levels C, D, E) ..... Yes No N/A

Field blank results acceptable? (Levels C, D, E) ..... Yes No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No N/A

Comments:

Batch 19029 MB1 hit: Ammonium 0.73 ug/g
Batch 19029 MB2 hit: Ammonium 0.78 ug/g
Batch 22897 MB hit: Nitrite 0.45 ug/g

4. ACCURACY (Levels C, D, and E)

Spike samples analyzed? ..... Yes No N/A

Spike recoveries acceptable? ..... Yes No N/A

Spike standards NIST traceable? (Levels D, E) ..... Yes No N/A

Spike 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: None

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:

All soil samples analyzed for pH 1.9 days to 13.6 days after sample collection (HT = ASAP).

7. RESULT QUANTITATION AND DETECTION LIMITS (all levels)

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

Appendix 6

Additional Documentation Requested By Client

Holding Time Report: Cyanide

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
S10V000401	SOLID	SW846-9014	SW846-9010C	04/15/10 10:10	04/15/10 14:10	04/23/10 15:32	N
S10V000402	SOLID	SW846-9014	SW846-9010C	04/15/10 10:10	04/15/10 14:10	04/23/10 15:32	N
S10V000403	SOLID	SW846-9014	SW846-9010C	04/20/10 12:45	04/20/10 13:50	04/23/10 15:32	N
S10V000404	SOLID	SW846-9014	SW846-9010C	04/22/10 09:15	04/22/10 12:00	04/29/10 15:45	N
S10V000406	SOLID	SW846-9014	SW846-9010C	04/22/10 10:55	04/23/10 12:00	04/29/10 15:45	N
S10V000407	SOLID	SW846-9014	SW846-9010C	04/23/10 09:43	04/23/10 11:50	04/29/10 15:45	N
S10V000408	SOLID	SW846-9014	SW846-9010C	05/04/10 10:02	05/04/10 12:15	05/13/10 15:40	N
S10V000409	SOLID	SW846-9014	SW846-9010C	05/05/10 10:30	05/06/10 11:30	05/13/10 15:40	N
S10V000410	SOLID	SW846-9014	SW846-9010C	05/07/10 12:15	05/07/10 13:00	05/13/10 15:40	N

Holding Time Report: Sulfide

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
S10V000401	SOLID	SW846-9215	SW846-9030B	04/15/10 10:10	04/15/10 14:10	04/20/10 14:30	N
S10V000402	SOLID	SW846-9215	SW846-9030B	04/15/10 10:10	04/15/10 14:10	04/20/10 14:30	N
S10V000403	SOLID	SW846-9215	SW846-9030B	04/20/10 12:45	04/20/10 13:50	04/22/10 14:30	N
S10V000404	SOLID	SW846-9215	SW846-9030B	04/22/10 09:15	04/22/10 12:00	04/27/10 15:25	N
S10V000406	SOLID	SW846-9215	SW846-9030B	04/22/10 10:55	04/23/10 12:00	04/27/10 15:25	N
S10V000407	SOLID	SW846-9215	SW846-9030B	04/23/10 09:43	04/23/10 11:50	04/27/10 15:25	N
S10V000408	SOLID	SW846-9215	SW846-9030B	05/04/10 10:02	05/04/10 12:15	05/06/10 15:15	N
S10V000409	SOLID	SW846-9215	SW846-9030B	05/05/10 10:30	05/06/10 11:30	05/12/10 14:45	N
S10V000410	SOLID	SW846-9215	SW846-9030B	05/07/10 12:15	05/07/10 13:00	05/12/10 14:45	N

Hold Time Report: pH

Sample	Matrix	Method	Sample Date	Received Date	Analysis Date	Days Lapsed
S10V000401	SOLID	SW846-9045D	04/15/10 10:10	04/15/10 14:10	04/20/10 16:20	**5.3**
S10V000402	SOLID	SW846-9045D	04/15/10 10:10	04/15/10 14:10	04/20/10 16:20	**5.3**
S10V000403	SOLID	SW846-9045D	04/20/10 12:45	04/20/10 13:50	04/22/10 09:57	**1.9**
S10V000404	SOLID	SW846-9045D	04/22/10 09:15	04/22/10 12:00	04/28/10 15:15	**6.3**
S10V000406	SOLID	SW846-9045D	04/22/10 10:55	04/23/10 12:00	04/28/10 15:15	**6.2**
S10V000407	SOLID	SW846-9045D	04/23/10 09:43	04/23/10 11:50	04/28/10 15:15	**5.2**
S10V000408	SOLID	SW846-9045D	05/04/10 10:02	05/04/10 12:15	05/17/10 23:23	**13.6**
S10V000409	SOLID	SW846-9045D	05/05/10 10:30	05/06/10 11:30	05/17/10 23:23	**12.5**
S10V000410	SOLID	SW846-9045D	05/07/10 12:15	05/07/10 13:00	05/17/10 23:23	**10.5**

Holding Time Report: Ammonium

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S10V000421	SOLID	EPA-300.7	NH4 DIST	04/15/10 10:10	04/15/10 14:10	04/22/10 15:52	04/22/10 18:34	N
S10V000579	SOLID	EPA-300.7	NH4 DIST	04/15/10 10:10	04/15/10 14:10	04/22/10 15:52	04/22/10 18:51	N
S10V000631	SOLID	EPA-300.7	NH4 DIST	04/20/10 12:45	04/20/10 13:50	04/22/10 15:52	04/22/10 20:16	N
S10V000640	SOLID	EPA-300.7	NH4 DIST	04/22/10 09:15	04/22/10 12:00	04/27/10 11:02	04/27/10 16:09	N
S10V000658	SOLID	EPA-300.7	NH4 DIST	04/22/10 10:55	04/23/10 12:00	04/27/10 11:02	04/27/10 17:17	N
S10V000667	SOLID	EPA-300.7	NH4 DIST	04/23/10 09:43	04/23/10 11:50	04/27/10 11:02	04/27/10 17:33	N
S10V000676	SOLID	EPA-300.7	NH4 DIST	05/04/10 10:02	05/04/10 12:15	05/06/10 14:38	05/07/10 02:05	N
S10V000685	SOLID	EPA-300.7	NH4 DIST	05/05/10 10:30	05/06/10 11:30	05/12/10 14:45	05/12/10 15:27	N
S10V000694	SOLID	EPA-300.7	NH4 DIST	05/07/10 12:15	05/12/10 13:36	05/12/10 14:45	05/12/10 20:04	N

Holding Time Report: IC-Anions

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S10V000629	SOLID	SW846-9056A	WATER DIGEST	04/20/10 12:45	04/20/10 13:50	04/22/10 10:00	04/23/10 00:07	N
S10V000638	SOLID	SW846-9056A	WATER DIGEST	04/22/10 09:15	04/22/10 12:00	04/28/10 10:05	04/28/10 19:06	N
S10V000656	SOLID	SW846-9056A	WATER DIGEST	04/22/10 10:55	04/23/10 12:00	04/28/10 10:05	04/28/10 21:14	N
S10V000665	SOLID	SW846-9056A	WATER DIGEST	04/23/10 09:43	04/23/10 11:50	04/28/10 10:05	04/28/10 21:46	N
S10V000674	SOLID	SW846-9056A	WATER DIGEST	05/04/10 10:02	05/04/10 12:15	05/17/10 11:15	05/17/10 19:39	N
S10V000683	SOLID	SW846-9056A	WATER DIGEST	05/05/10 10:30	05/06/10 11:30	05/17/10 11:15	05/17/10 21:15	N
S10V000692	SOLID	SW846-9056A	WATER DIGEST	05/07/10 12:15	05/07/10 13:00	05/17/10 11:15	05/17/10 21:47	N
S10V000419	SOLID	SW846-9056A	WATER DIGEST	04/15/10 10:10	04/20/10 09:03	10/05/10 17:00	10/06/10 03:07	N
S10V000577	SOLID	SW846-9056A	WATER DIGEST	04/15/10 10:10	04/15/10 14:10	10/05/10 17:00	10/06/10 03:39	N

LABCORE Completed Batch Report for Batch# 00019042

Analyst: Mull, Bryanna

Book#:

Instrument: CARY 50-2

Method: CN - EDTA, LA-695-103 Rev/Mod J-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: Cyanide determination for C Farm WMC 2010-1 soils. bsm

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1004230022		0 0			Cyanide	LIQUID	.2008	1.9476E-01			0.037	ug/mL	96.992	% Recovery	
Sample Sequence 2																	
2	ICB	S1004230016		0 0			Cyanide	LIQUID		<3.7000E-02			0.037	ug/mL			
Sample Sequence 3																	
3	LLS	S1004230017		0 0			Cyanide	LIQUID	.04028	3.8734E-02			0.037	ug/mL	96.163	% Recovery	
Sample Sequence 4																	
4	SAMPLE	S10V000401		0 0			Cyanide	SOLID	N/A	<2.3490E+00			2.349	ug/g			U
Sample Sequence 5																	
5	DUP	S1004230018	S10V000401	0 0			Cyanide	SOLID	<2.3490E+00	<2.3320E+00			2.332	ug/g			
Sample Sequence 6																	
6	SPK	S1004230019	S10V000401	0 0			Cyanide	SOLID	6.50584	6.3017E+00			2.39	ug/g	96.862	% Recovery	
Sample Sequence 7																	
7	SAMPLE	S10V000402		0 0			Cyanide	SOLID	N/A	<2.4610E+00			2.461	ug/g			U
Sample Sequence 8																	
8	SAMPLE	S10V000403		0 0			Cyanide	SOLID	N/A	<2.4830E+00			2.483	ug/g			U
Sample Sequence 9																	
9	SAMPLE	S09V001613		0 0			Cyanide	SOLID	N/A	<2.4460E+00			2.446	ug/g			U
Sample Sequence 10																	
10	SAMPLE	S09V001625		0 0			Cyanide	SOLID	N/A	<2.3620E+00			2.362	ug/g			U
Sample Sequence 11																	
11	CCV	S1004230020		0 0			Cyanide	LIQUID	.2008	1.7282E-01			0.037	ug/mL	86.066	% Recovery	
Sample Sequence 12																	
12	CCB	S1004230021		0 0			Cyanide	LIQUID		<3.7000E-02			0.037	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019042

Final Page for Batch# 00019042

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019042

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004230022	ICV				
2	S1004230016	ICB				
3	S1004230017	LLS				
4	S10V000401	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
5	S1004230018	DUP	S10V000401			
6	S1004230019	SPK	S10V000401			
7	S10V000402	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
8	S10V000403	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
9	S09V001613	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
10	S09V001625	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
11	S1004230020	CCV				
12	S1004230021	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019150

Analyst: Mull, Bryanna

Book#:

Instrument: CARY 50-2

Method: CN - EDTA, LA-695-103 Rev/Mod J-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: Cyanide determination for C Farm WMC 2010-1 soils. bsm

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1004300008		0 0			Cyanide	LIQUID	.2014	2.0044E-01			0.037	ug/mL	99.523	% Recovery	
Sample Sequence 2																	
2	ICB	S1004300002		0 0			Cyanide	LIQUID		<3.7000E-02			0.037	ug/mL			
Sample Sequence 3																	
3	LLS	S1004300003		0 0			Cyanide	LIQUID	.04016	4.2242E-02			0.037	ug/mL	105.18	% Recovery	
Sample Sequence 4																	
4	SAMPLE	S10V000404		0 0			Cyanide	SOLID	N/A	<2.8530E+00			2.853	ug/g			U
Sample Sequence 5																	
5	DUP	S1004300004	S10V000404	0 0			Cyanide	SOLID	<2.8530E+00	<2.7880E+00			2.788	ug/g			
Sample Sequence 6																	
6	SPK	S1004300005	S10V000404	0 0			Cyanide	SOLID	7.661593	7.5383E+00			2.815	ug/g	98.391	% Recovery	
Sample Sequence 7																	
7	SAMPLE	S10V000406		0 0			Cyanide	SOLID	N/A	<2.6220E+00			2.622	ug/g			U
Sample Sequence 8																	
8	SAMPLE	S10V000407		0 0			Cyanide	SOLID	N/A	<2.5790E+00			2.579	ug/g			U
Sample Sequence 9																	
9	CCV	S1004300006		0 0			Cyanide	LIQUID	.2014	1.9707E-01			0.037	ug/mL	97.85	% Recovery	
Sample Sequence 10																	
10	CCB	S1004300007		0 0			Cyanide	LIQUID		<3.7000E-02			0.037	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019150

Final Page for Batch# 00019150

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019150

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004300008	ICV				
2	S1004300002	ICB				
3	S1004300003	LLS				
4	S10V000404	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
5	S1004300004	DUP	S10V000404			
6	S1004300005	SPK	S10V000404			
7	S10V000406	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
8	S10V000407	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
9	S1004300006	CCV				
10	S1004300007	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019456

Analyst: Thorndike, Kathy

Book#:

Instrument: CARY 50-2

Method: CN - EDTA, LA-695-103 Rev/Mod J-0

Specification: S-SX Barrier

Prep Batch:

Batch Comment: Cyanide-EDTA for C-Farm WMC 2010-1. lnd

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	CCV	S1005180081		0 0			Cyanide	LIQUID	.2008	1.7841E-01			0.037	ug/mL	88.85	% Recovery	
Sample Sequence 2																	
2	CCB	S1005180082		0 0			Cyanide	LIQUID		<3.7000E-02			0.037	ug/mL			
Sample Sequence 3																	
3	LLS	S1005180078		0 0			Cyanide	LIQUID	.04028	2.6270E-02			0.025	ug/mL	65.218	% Recovery	
Sample Sequence 6																	
6	DUP	S1005180079	S10V000409	0 0			Cyanide	SOLID					2.685	ug/g			
Sample Sequence 7																	
7	SPK	S1005180080	S10V000409	0 0			Cyanide	SOLID					2.949	ug/g	75.847	% Recovery	
Sample Sequence 11																	
11	CCV	S1005180084		0 0			Cyanide	LIQUID	.2008	1.8610E-01			0.037	ug/mL	92.679	% Recovery	
Sample Sequence 12																	
12	CCB	S1005180083		0 0			Cyanide	LIQUID		<3.7000E-02			0.037	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019456

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019456

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005180081	CCV				
2	S1005180082	CCB				
3	S1005180078	LLS				
6	S1005180079	DUP	S10V000409			
7	S1005180080	SPK	S10V000409			
11	S1005180084	CCV				
12	S1005180083	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00018963

Analyst: Dinh, Liem

Book#:

Instrument: ISE-Meter #2

Method: SULFIDE, LA-361-101 Rev/Mod D-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: Sulfide for C-Farm. lnd

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1004200025		0 0			Sulfide	SOLID	5.403	5.4800E+00			0.18	ug/g	101.43	% Recovery	
Sample Sequence 2																	
2	ICB	S1004200026		0 0			Sulfide	SOLID		<1.8000E-01			0.18	ug/g			
Sample Sequence 3																	
3	LLS	S1004200027		0 0			Sulfide	SOLID	1.0806	1.1500E+00			0.18	ug/g	106.42	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1004200028		0 0			Sulfide	SOLID		<1.8000E-01			0.18	ug/g			
Sample Sequence 5																	
5	LCS	S1004200029		0 0			Sulfide	SOLID	2.7015	2.4200E+00			0.18	ug/g	89.58	% Recovery	
Sample Sequence 6																	
6	SAMPLE	S10V000401		0 0			Sulfide	SOLID	N/A	2.7309E+01			7.1971	ug/g			J
Sample Sequence 7																	
7	DUP	S1004200030	S10V000401	0 0			Sulfide	SOLID	2.7309E+01	2.5573E+01			7.2376	ug/g	6.5656	% RPD	
Sample Sequence 8																	
8	SPK-PREDIG	S1004200031	S10V000401	0 0			Sulfide	SOLID	108.4504	1.1602E+02			7.226	ug/g	81.797	% Recovery	
Sample Sequence 9																	
9	SAMPLE	S10V000402		0 0			Sulfide	SOLID	N/A	3.4765E+01			7.226	ug/g			J
Sample Sequence 10																	
10	SAMPLE	S09V001613		0 0			Sulfide	SOLID	N/A	2.9280E+01			7.0838	ug/g			J
Sample Sequence 11																	
11	SAMPLE	S09V001625		0 0			Sulfide	SOLID	N/A	3.0361E+01			7.1344	ug/g			J
Sample Sequence 12																	
12	CCV	S1004200032		0 0			Sulfide	SOLID	5.403	5.5200E+00			0.18	ug/g	102.17	% Recovery	
Sample Sequence 13																	
13	CCB	S1004200033		0 0			Sulfide	SOLID		<1.8000E-01			0.18	ug/g			

Comments Section:

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00018963

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00018963

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00018963

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004200025	ICV				
2	S1004200026	ICB				
3	S1004200027	LLS				
4	S1004200028	BLNK-PREP				
5	S1004200029	LCS				
6	S10V000401	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
7	S1004200030	DUP	S10V000401			
8	S1004200031	SPK-PREDIG	S10V000401			
9	S10V000402	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
10	S09V001613	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
11	S09V001625	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
12	S1004200032	CCV				
13	S1004200033	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019013

Analyst: Dinh, Liem

Book#:

Instrument: ISE-Meter #1

Method: SULFIDE, LA-361-101 Rev/Mod D-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: Sulfide for C-Farm. lnd

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1004220061		0 0			Sulfide	LIQUID	5.433	5.7000E+00			0.18	ug/mL	104.91	% Recovery	
Sample Sequence 2																	
2	ICB	S1004220062		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			
Sample Sequence 3																	
3	LLS	S1004220063		0 0			Sulfide	LIQUID	1.0866	1.2300E+00			0.18	ug/mL	113.2	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1004230001		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			
Sample Sequence 5																	
5	LCS	S1004220065		0 0			Sulfide	LIQUID	2.7165	2.9400E+00			0.18	ug/mL	108.23	% Recovery	
Sample Sequence 6																	
6	SAMPLE	S10V000403		0 0			Sulfide	SOLID	N/A	2.1339E+01			7.0866	ug/g			J
Sample Sequence 7																	
7	DUP	S1004220066	S10V000403	0 0			Sulfide	SOLID	2.1339E+01	2.3318E+01			7.0423	ug/g	8.8617	% RPD	
Sample Sequence 8																	
8	SPK-PREDIG	S1004220067	S10V000403	0 0			Sulfide	SOLID	106.2378	1.3297E+02			7.0395	ug/g	105.07	% Recovery	
Sample Sequence 9																	
9	CCV	S1004220068		0 0			Sulfide	LIQUID	5.433	5.6100E+00			0.18	ug/mL	103.26	% Recovery	
Sample Sequence 10																	
10	CCB	S1004220069		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019013

Final Page for Batch# 00019013

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019013

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004220061	ICV				
2	S1004220062	ICB				
3	S1004220063	LLS				
4	S1004230001	BLNK-PREP				
5	S1004220065	LCS				
6	S10V000403	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
7	S1004220066	DUP	S10V000403			
8	S1004220067	SPK-PREDIG	S10V000403			
9	S1004220068	CCV				
10	S1004220069	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019085

Analyst: Dinh, Liem

Book#:

Instrument: ISE-Meter #1

Method: SULFIDE, LA-361-101 Rev/Mod D-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: Sulfide for C-Farm. lnd

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1004270063		0 0			Sulfide	LIQUID	5.42	5.7500E+00			0.18	ug/mL	106.09	% Recovery	
Sample Sequence 2																	
2	ICB	S1004270064		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			
Sample Sequence 3																	
3	LLS	S1004270065		0 0			Sulfide	LIQUID	1.083	1.1900E+00			0.18	ug/mL	109.88	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1004270066		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			
Sample Sequence 5																	
5	LCS	S1004270067		0 0			Sulfide	LIQUID	2.71	2.8700E+00			0.18	ug/mL	105.9	% Recovery	
Sample Sequence 6																	
6	SAMPLE	S10V000404		0 0			Sulfide	SOLID	N/A	1.7938E+01			7.1118	ug/g			J
Sample Sequence 7																	
7	DUP	S1004270068	S10V000404	0 0			Sulfide	SOLID	1.7938E+01	1.7883E+01			7.1372	ug/g	0.30915	% RPD	
Sample Sequence 8																	
8	SPK-PREDIG	S1004270069	S10V000404	0 0			Sulfide	SOLID	107.1994	1.3687E+02			7.1203	ug/g	110.94	% Recovery	
Sample Sequence 9																	
9	SAMPLE	S10V000406		0 0			Sulfide	SOLID	N/A	1.6959E+01			7.1828	ug/g			J
Sample Sequence 10																	
10	SAMPLE	S10V000407		0 0			Sulfide	SOLID	N/A	1.4468E+01			7.1942	ug/g			J
Sample Sequence 11																	
11	CCV	S1004270070		0 0			Sulfide	LIQUID	5.42	5.5900E+00			0.18	ug/mL	103.14	% Recovery	
Sample Sequence 12																	
12	CCB	S1004270071		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019085

Final Page for Batch# 00019085

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019085

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004270063	ICV				
2	S1004270064	ICB				
3	S1004270065	LLS				
4	S1004270066	BLNK-PREP				
5	S1004270067	LCS				
6	S10V000404	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
7	S1004270068	DUP	S10V000404			
8	S1004270069	SPK-PREDIG	S10V000404			
9	S10V000406	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
10	S10V000407	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
11	S1004270070	CCV				
12	S1004270071	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019253

Analyst: Dinh, Liem

Book#:

Instrument: ISE-Meter #1

Method: SULFIDE, LA-361-101 Rev/Mod D-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: Sulfide for C-Farm. lnd

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1005060092		0 0			Sulfide	LIQUID	5.404	5.6400E+00			0.18	ug/mL	104.37	% Recovery	
Sample Sequence 2																	
2	ICB	S1005060093		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			
Sample Sequence 3																	
3	LLS	S1005060094		0 0			Sulfide	LIQUID	1.0808	1.1300E+00			0.18	ug/mL	104.55	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1005060095		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			
Sample Sequence 5																	
5	LCS	S1005060096		0 0			Sulfide	LIQUID	2.702	2.5600E+00			0.18	ug/mL	94.745	% Recovery	
Sample Sequence 6																	
6	SAMPLE	S10V000408		0 0			Sulfide	SOLID	N/A	7.2140E+00			7.1742	ug/g			J
Sample Sequence 7																	
7	DUP	S1005060097	S10V000408	0 0			Sulfide	SOLID	7.2140E+00	7.9062E+00			7.1514	ug/g	9.1564	% RPD	
Sample Sequence 8																	
8	SPK-PREDIG	S1005060098	S10V000408	0 0			Sulfide	SOLID	107.9073	1.1581E+02			7.1885	ug/g	100.64	% Recovery	
Sample Sequence 9																	
9	CCV	S1005060099		0 0			Sulfide	LIQUID	5.404	5.8000E+00			0.18	ug/mL	107.33	% Recovery	
Sample Sequence 10																	
10	CCB	S1005060100		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019253

Final Page for Batch# 00019253

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019253

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005060092	ICV				
2	S1005060093	ICB				
3	S1005060094	LLS				
4	S1005060095	BLNK-PREP				
5	S1005060096	LCS				
6	S10V000408	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
7	S1005060097	DUP	S10V000408			
8	S1005060098	SPK-PREDIG	S10V000408			
9	S1005060099	CCV				
10	S1005060100	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019380

Analyst: Dinh, Liem

Book#:

Instrument: ISE-Meter #1

Method: SULFIDE, LA-361-101 Rev/Mod D-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: Sulfide for C-Farm. lnd

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICV	S1005130074		0 0			Sulfide	LIQUID	5.41	5.0900E+00			0.18	ug/mL	94.085	% Recovery	
Sample Sequence 2																	
2	ICB	S1005130015		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			
Sample Sequence 3																	
3	LLS	S1005130016		0 0			Sulfide	LIQUID	1.08	9.7800E-01			0.18	ug/mL	90.556	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1005130017		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			
Sample Sequence 5																	
5	LCS	S1005130018		0 0			Sulfide	LIQUID	2.71	2.2000E+00			0.18	ug/mL	81.181	% Recovery	
Sample Sequence 6																	
6	SAMPLE	S10V000409		0 0			Sulfide	SOLID	N/A	<7.1259E+00			7.1259	ug/g			U
Sample Sequence 7																	
7	DUP	S1005130019	S10V000409	0 0			Sulfide	SOLID	<7.1259E+00	<7.1429E+00			7.1429	ug/g			
Sample Sequence 8																	
8	SPK-PREDIG	S1005130020	S10V000409	0 0			Sulfide	SOLID	107.8822	9.3551E+01			7.1656	ug/g	86.716	% Recovery	
Sample Sequence 9																	
9	SAMPLE	S10V000410		0 0			Sulfide	SOLID	N/A	<7.2058E+00			7.2058	ug/g			U
Sample Sequence 10																	
10	SAMPLE	S10V000131		0 0			Sulfide	SOLID	N/A	1.6235E+01			7.1799	ug/g			J
Sample Sequence 11																	
11	SAMPLE	S10V000145		0 0			Sulfide	SOLID	N/A	2.1612E+01			7.1118	ug/g			J
Sample Sequence 12																	
12	CCV	S1005130021		0 0			Sulfide	LIQUID	5.41	5.1300E+00			0.18	ug/mL	94.824	% Recovery	
Sample Sequence 13																	
13	CCB	S1005130022		0 0			Sulfide	LIQUID		<1.8000E-01			0.18	ug/mL			

Comments Section:

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019380

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019380

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019380

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005130074	ICV				
2	S1005130015	ICB				
3	S1005130016	LLS				
4	S1005130017	BLNK-PREP				
5	S1005130018	LCS				
6	S10V000409	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
7	S1005130019	DUP	S10V000409			
8	S1005130020	SPK-PREDIG	S10V000409			
9	S10V000410	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
10	S10V000131	SAMPLE		20100064	B23TK2	C Farm WMC 2010-1
11	S10V000145	SAMPLE		20100064	B23TK5	C Farm WMC 2010-1
12	S1005130021	CCV				
13	S1005130022	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00018971

Analyst: Dinh, Liem

Book#:

Instrument: PH02

Method: PH SOLID, LA-212-105 Rev/Mod G-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: pH for C-Farm. lnd

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICVPH	S1004210005		0 0			pH	LIQUID	8	8			0.01	pH			
Sample Sequence 2																	
2	SAMPLE	S10V000402		0 0			pH	SOLID	N/A	8.15			0.01	pH			
Sample Sequence 3																	
3	DUP	S1004210007	S10V000402	0 0			pH	SOLID	8.15	8.63			0.01	pH	5.7211	% RPD	
Sample Sequence 4																	
4	SAMPLE	S10V000401		0 0			pH	SOLID	N/A	8.84			0.01	pH			
Sample Sequence 5																	
5	SAMPLE	S09V001613		0 0			pH	SOLID	N/A	8.91			0.01	pH			
Sample Sequence 6																	
6	SAMPLE	S09V001625		0 0			pH	SOLID	N/A	8.95			0.01	pH			
Sample Sequence 7																	
7	CCVPH	S1004210008		0 0			pH	LIQUID	8	8.02			0.01	pH			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00018971

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00018971

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004210005	ICVPH				
2	S10V000402	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
3	S1004210007	DUP	S10V000402			
4	S10V000401	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
5	S09V001613	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
6	S09V001625	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
7	S1004210008	CCVPH				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019001

Analyst: Hexum, Troy

Book#:

Instrument: PH02

Method: PH SOLID, LA-212-105 Rev/Mod G-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: PH SOLID FOR C-FARM WMC 2010-1 TJH

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICVPH	S1004220033		0 0			pH	LIQUID	8	8.03			0.01	pH			
Sample Sequence 2																	
2	SAMPLE	S10V000403		0 0			pH	SOLID	N/A	8.46			0.01	pH			
Sample Sequence 3																	
3	DUP	S1004220035	S10V000403	0 0			pH	SOLID	8.46	8.53			0.01	pH	0.82401	% RPD	
Sample Sequence 4																	
4	CCVPH	S1004220036		0 0			pH	LIQUID	8	8.02			0.01	pH			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019001

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019001

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004220033	ICVPH				
2	S10V000403	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
3	S1004220035	DUP	S10V000403			
4	S1004220036	CCVPH				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019129

Analyst: Dinh, Liem

Book#:

Instrument: PH02

Method: PH SOLID, LA-212-105 Rev/Mod G-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: pH on C-Farm WMC 2010. lnd

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICVPH	S1004280116		0 0			pH	LIQUID	8	8.02			0.01	pH			
Sample Sequence 2																	
2	SAMPLE	S10V000406		0 0			pH	SOLID	N/A	9.03			0.01	pH			
Sample Sequence 3																	
3	DUP	S1004280118	S10V000406	0 0			pH	SOLID	9.03	9.35			0.01	pH	3.4820	% RPD	
Sample Sequence 4																	
4	SAMPLE	S10V000404		0 0			pH	SOLID	N/A	9.33			0.01	pH			
Sample Sequence 5																	
5	SAMPLE	S10V000407		0 0			pH	SOLID	N/A	9.19			0.01	pH			
Sample Sequence 6																	
6	CCVPH	S1004280119		0 0			pH	LIQUID	8	8.03			0.01	pH			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019129

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019129

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004280116	ICVPH				
2	S10V000406	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
3	S1004280118	DUP	S10V000406			
4	S10V000404	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
5	S10V000407	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
6	S1004280119	CCVPH				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019430

Analyst: Shaw, Levi

Book#:

Instrument: PH02

Method: PH SOLID, LA-212-105 Rev/Mod G-0

Specification: Well 7570

Prep Batch:

Batch Comment: pH Solids on Vadose samples. LS

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	ICVPH	S1005170088		0 0			pH	LIQUID	8	8.02			0.01	pH			
Sample Sequence 3																	
3	DUP	S1005170090	S10V000131	0 0			pH	SOLID					0.01	pH	0	% RPD	
Sample Sequence 6																	
6	DUP	S1005170092	S10V000408	0 0			pH	SOLID					0.01	pH	0.22883	% RPD	
Sample Sequence 9																	
9	CCVPH	S1005170091		0 0			pH	LIQUID	8	8.06			0.01	pH			
Sample Sequence 10																	
10	SAMPLE	S10V000952		0 0			pH	SOLID	N/A	8.64			0.01	pH			
Sample Sequence 11																	
11	DUP	S1005170093	S10V000952	0 0			pH	SOLID	8.64	8.65			0.01	pH	0.11567	% RPD	
Sample Sequence 12																	
12	SAMPLE	S10V000953		0 0			pH	SOLID	N/A	8.7			0.01	pH			
Sample Sequence 13																	
13	SAMPLE	S10V000954		0 0			pH	SOLID	N/A	8.65			0.01	pH			
Sample Sequence 14																	
14	SAMPLE	S10V000955		0 0			pH	SOLID	N/A	8.53			0.01	pH			
Sample Sequence 15																	
15	CCVPH	S1005170094		0 0			pH	LIQUID	8	8.04			0.01	pH			

Comments Section:

Data Flagger Status:
Flagging Completed

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019430

Final Page for Batch# 00019430

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019430

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005170088	ICVPH				
3	S1005170090	DUP	S10V000131			
6	S1005170092	DUP	S10V000408			
9	S1005170091	CCVPH				
10	S10V000952	SAMPLE		20100400	B248B3	Well 7570
11	S1005170093	DUP	S10V000952			
12	S10V000953	SAMPLE		20100400	B248B4	Well 7570
13	S10V000954	SAMPLE		20100400	B248B5	Well 7570
14	S10V000955	SAMPLE		20100400	B248B6	Well 7570
15	S1005170094	CCVPH				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019029

Analyst: Boisoneau, Ryan

Book#: 13N29C

Instrument: IC-5 (IC-NH4)

Method: IC - NH4, LA-533-101 Rev/Mod Q-0

Specification: C Farm WMC 2010-1, S-SX Barrier

Prep Batch: 00018978

Batch Comment:

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	CCV	S1004220117		0 0			Ammonium	LIQUID	3.04950492	3.0343E+00			0.012	ug/mL	99.502	% Recovery	
Sample Sequence 2																	
2	CCB	S1004220118		0 0			Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			
Sample Sequence 3																	
3	LLS	S1004220119		0 0			Ammonium	LIQUID	.120784356	1.0301E-01			0.012	ug/mL	85.284	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1004210038		0 0	S		Ammonium	LIQUID		1.8290E-01			0.12	ug/mL			
Sample Sequence 5																	
5	LCS	S1004210037		0 0	S		Ammonium	LIQUID	308	2.9397E+02			0.6	ug/mL	95.443	% Recovery	
Sample Sequence 6																	
6	SAMPLE	S09V001619		0 0	S		Ammonium	SOLID	N/A	3.4894E+00			0.4779	ug/g			BJ
Sample Sequence 7																	
7	DUP	S1004210039	S09V001619	0 0	S		Ammonium	SOLID	3.4894E+00	3.3450E+00			0.48077	ug/g	4.2270	% RPD	
Sample Sequence 8																	
8	SPK-PREDIG	S1004210040	S09V001619	0 0	S		Ammonium	SOLID	122.0604	1.1726E+02			0.47544	ug/g	93.208	% Recovery	
Sample Sequence 9																	
9	SPK-IC	S1004220121	S09V001619	0 0			Ammonium	SOLID	311.08	3.0473E+00			0.012	ug/g	96.093	% Recovery	
Sample Sequence 10																	
10	SAMPLE	S09V001631		0 0	S		Ammonium	SOLID	N/A	3.4875E+00			0.46985	ug/g			BJ
Sample Sequence 11																	
11	SAMPLE	S10V000421		0 0	S		Ammonium	SOLID	N/A	2.9676E+00			0.47393	ug/g			BJ
Sample Sequence 12																	
12	SAMPLE	S10V000579		0 0	S		Ammonium	SOLID	N/A	2.7515E+00			0.47487	ug/g			BJ
Sample Sequence 13																	
13	CCV	S1004220123		0 0			Ammonium	LIQUID	3.04950492	2.9044E+00			0.012	ug/mL	95.241	% Recovery	
Sample Sequence 14																	
14	CCB	S1004220124		0 0			Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			
Sample Sequence 15																	
15	BLNK-PREP	S1004220008		0 0	S		Ammonium	LIQUID		1.9520E-01			0.12	ug/mL			
Sample Sequence 16																	
16	LCS	S1004220007		0 0	S		Ammonium	LIQUID	308	2.7864E+02			0.6	ug/mL	90.467	% Recovery	
Sample Sequence 17																	
17	SAMPLE	S10V000631		0 0	S		Ammonium	SOLID	N/A	7.2918E-01			0.47581	ug/g			BJ

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019029

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 18																	
18	DUP	S1004220012	S10V000631	0 0	S		Ammonium	SOLID	7.2918E-01	9.5984E-01			0.46784	ug/g	27.312	% RPD	
Sample Sequence 19																	
19	SPK-PREDIG	S1004220013	S10V000631	0 0	S		Ammonium	SOLID	120.8592	1.1532E+02			0.47077	ug/g	94.817	% Recovery	
Sample Sequence 20																	
20	SPK-IC	S1004220125	S10V000631	0 0			Ammonium	SOLID	311.08	3.0156E+00			0.012	ug/g	97.31	% Recovery	
Sample Sequence 21																	
21	SAMPLE	S10V000746		0 0	S		Ammonium	SOLID	N/A	2.1888E+00			0.4682	ug/g			BJ
Sample Sequence 22																	
22	DUP	S1004220009	S10V000746	0 0	S		Ammonium	SOLID	2.1888E+00	2.2026E+00			0.47866	ug/g	0.62850	% RPD	
Sample Sequence 23																	
23	SPK-PREDIG	S1004220010	S10V000746	0 0	S		Ammonium	SOLID	120.8284	1.1712E+02			0.47096	ug/g	95.116	% Recovery	
Sample Sequence 24																	
24	SPK-IC	S1004220126	S10V000746	0 0			Ammonium	SOLID	311.08	3.0339E+00			0.012	ug/g	96.683	% Recovery	
Sample Sequence 25																	
25	CCV	S1004220128		0 0			Ammonium	LIQUID	3.04950492	2.9495E+00			0.012	ug/mL	96.72	% Recovery	
Sample Sequence 26																	
26	CCB	S1004220127		0 0			Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019029

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019029

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004220117	CCV				
2	S1004220118	CCB				
3	S1004220119	LLS				
4	S1004210038	BLNK-PREP				
5	S1004210037	LCS				
6	S09V001619	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
7	S1004210039	DUP	S09V001619			
8	S1004210040	SPK-PREDIG	S09V001619			
9	S1004220121	SPK-IC	S09V001619			
10	S09V001631	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
11	S10V000421	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
12	S10V000579	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
13	S1004220123	CCV				
14	S1004220124	CCB				
15	S1004220008	BLNK-PREP				
16	S1004220007	LCS				
17	S10V000631	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
18	S1004220012	DUP	S10V000631			
19	S1004220013	SPK-PREDIG	S10V000631			
20	S1004220125	SPK-IC	S10V000631			
21	S10V000746	SAMPLE		20100347	B24YW0	S-SX Barrier
22	S1004220009	DUP	S10V000746			
23	S1004220010	SPK-PREDIG	S10V000746			
24	S1004220126	SPK-IC	S10V000746			
25	S1004220128	CCV				
26	S1004220127	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019076

Analyst: Boisoneau, Ryan **Book#:** 13N29C

Instrument: IC-5 (IC-NH4)

Method: IC - NH4, LA-533-101 Rev/Mod Q-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019072

Batch Comment: NH4 DISTILLATION OF C-FARM WMC 2010-1 AND S-SX BARRIER. RJB, KJL

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	CCV	S1004270016		0 0			Ammonium	LIQUID	3.0495049508	2.9052E+00			0.012	ug/mL	95.268	% Recovery	
Sample Sequence 2																	
2	CCB	S1004270017		0 0			Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			
Sample Sequence 3																	
3	LLS	S1004270018		0 0			Ammonium	LIQUID	.1207822	1.1014E-01			0.012	ug/mL	91.189	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1004270002		0 0	S		Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			
Sample Sequence 5																	
5	LCS	S1004270001		0 0	S		Ammonium	LIQUID	308	2.8161E+02			0.6	ug/mL	91.433	% Recovery	
Sample Sequence 6																	
6	SAMPLE	S10V000640		0 0	S		Ammonium	SOLID	N/A	1.0744E+00			0.47771	ug/g			J
Sample Sequence 7																	
7	DUP	S1004270003	S10V000640	0 0	S		Ammonium	SOLID	1.0744E+00	1.2714E+00			0.47828	ug/g	16.796	% RPD	
Sample Sequence 8																	
8	SPK-PREDIG	S1004270004	S10V000640	0 0	S		Ammonium	SOLID	122.9536	1.1717E+02			0.47904	ug/g	94.424	% Recovery	
Sample Sequence 9																	
9	SPK-IC	S1004270020	S10V000640	0 0			Ammonium	SOLID	311.08	2.9803E+00			0.012	ug/g	95.888	% Recovery	
Sample Sequence 10																	
10	SAMPLE	S10V000658		0 0	S		Ammonium	SOLID	N/A	1.3486E+00			0.46838	ug/g			J
Sample Sequence 11																	
11	SAMPLE	S10V000667		0 0	S		Ammonium	SOLID	N/A	1.5260E+00			0.4693	ug/g			J
Sample Sequence 12																	
12	CCV	S1004270022		0 0			Ammonium	LIQUID	3.04950492	2.9190E+00			0.012	ug/mL	95.719	% Recovery	
Sample Sequence 13																	
13	CCB	S1004270023		0 0			Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			
Sample Sequence 15																	
15	DUP	S1004270006	S10V000747	0 0	S		Ammonium	SOLID					0.47525	ug/g	20.411	% RPD	
Sample Sequence 16																	
16	SPK-PREDIG	S1004270007	S10V000747	0 0	S		Ammonium	SOLID					0.47923	ug/g	93.53	% Recovery	
Sample Sequence 17																	
17	SPK-IC	S1004270026	S10V000747	0 0			Ammonium	SOLID					0.012	ug/g	97.13	% Recovery	
Sample Sequence 18																	
18	CCV	S1004270025		0 0			Ammonium	LIQUID	3.04950492	2.9494E+00			0.012	ug/mL	96.717	% Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019076

Sample Sequence 19

19	CCB	S1004270024	0	0	Ammonium	LIQUID	<1.2000E-02	0.012	ug/mL

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019076

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019076

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004270016	CCV				
2	S1004270017	CCB				
3	S1004270018	LLS				
4	S1004270002	BLNK-PREP				
5	S1004270001	LCS				
6	S10V000640	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
7	S1004270003	DUP	S10V000640			
8	S1004270004	SPK-PREDIG	S10V000640			
9	S1004270020	SPK-IC	S10V000640			
10	S10V000658	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
11	S10V000667	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
12	S1004270022	CCV				
13	S1004270023	CCB				
15	S1004270006	DUP	S10V000747			
16	S1004270007	SPK-PREDIG	S10V000747			
17	S1004270026	SPK-IC	S10V000747			
18	S1004270025	CCV				
19	S1004270024	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019246

Analyst: Boisoneau, Ryan

Book#: 13N29D

Instrument: IC-5 (IC-NH4)

Method: IC - NH4, LA-533-101 Rev/Mod Q-0

Specification: C Farm WMC 2010-1, S-SX Barrier

Prep Batch: 00019236

Batch Comment:

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	CCV	S1005060066		0 0			Ammonium	LIQUID	2.9306930696	2.9660E+00			0.012	ug/mL	101.21	% Recovery	
Sample Sequence 2																	
2	CCB	S1005060067		0 0			Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			
Sample Sequence 3																	
3	LLS	S1005060068		0 0			Ammonium	LIQUID	.1160784424	1.0363E-01			0.012	ug/mL	89.276	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1005060036		0 0	S		Ammonium	LIQUID		<1.2000E-02			0.012	ug/g			
Sample Sequence 5																	
5	LCS	S1005060035		0 0	S		Ammonium	LIQUID	296	2.9577E+02			0.6	ug/g	99.923	% Recovery	
Sample Sequence 6																	
6	SAMPLE	S10V000676		0 0	S		Ammonium	SOLID	N/A	1.0529E+00			0.47695	ug/g			J
Sample Sequence 7																	
7	DUP	S1005060037	S10V000676	0 0	S		Ammonium	SOLID	1.0529E+00	8.8282E-01			0.47188	ug/g	17.569	% RPD	
Sample Sequence 8																	
8	SPK-PREDIG	S1005060038	S10V000676	0 0	S		Ammonium	SOLID	116.476	1.2046E+02			0.47244	ug/g	102.51	% Recovery	
Sample Sequence 9																	
9	SPK-IC	S1005060070	S10V000676	0 0			Ammonium	SOLID	298.96	2.9754E+00			0.012	ug/g	99.626	% Recovery	
Sample Sequence 10																	
10	SAMPLE	S10V000801		0 0	S		Ammonium	SOLID	N/A	6.9186E+00			0.47676	ug/g			
Sample Sequence 11																	
11	DUP	S1005060040	S10V000801	0 0	S		Ammonium	SOLID	6.9186E+00	6.1319E+00			0.46985	ug/g	12.055	% RPD	
Sample Sequence 12																	
12	SPK-PREDIG	S1005060041	S10V000801	0 0	S		Ammonium	SOLID	117.3048	1.2273E+02			0.47562	ug/g	98.726	% Recovery	
Sample Sequence 13																	
13	SPK-IC	S1005060074	S10V000801	0 0			Ammonium	SOLID	298.96	3.1239E+00			0.012	ug/g	99.654	% Recovery	
Sample Sequence 14																	
14	CCV	S1005060076		0 0			Ammonium	LIQUID	2.9306930696	2.9790E+00			0.012	ug/mL	101.65	% Recovery	
Sample Sequence 15																	
15	CCB	S1005060075		0 0			Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019246

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019246

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
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LABCORE Completed Batch Report for Batch# 00019246

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005060066	CCV				
2	S1005060067	CCB				
3	S1005060068	LLS				
4	S1005060036	BLNK-PREP				
5	S1005060035	LCS				
6	S10V000676	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
7	S1005060037	DUP	S10V000676			
8	S1005060038	SPK-PREDIG	S10V000676			
9	S1005060070	SPK-IC	S10V000676			
10	S10V000801	SAMPLE		20100347	B24YW6	S-SX Barrier
11	S1005060040	DUP	S10V000801			
12	S1005060041	SPK-PREDIG	S10V000801			
13	S1005060074	SPK-IC	S10V000801			
14	S1005060076	CCV				
15	S1005060075	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019420

Analyst: Purinton, Tony **Book#:** 13N29D

Instrument: IC-5 (IC-NH4)

Method: IC - NH4, LA-533-101 Rev/Mod Q-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019350, 00019386

Batch Comment:

S-SX Barrier/C Farm WMC 2010-1 NH4 DIST. ADP/KJL/LS

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	CCV	S1005170028		0 0			Ammonium	LIQUID	2.93069304	2.9396E+00			0.012	ug/mL	100.3	% Recovery	
Sample Sequence 2																	
2	CCB	S1005170029		0 0			Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			
Sample Sequence 3																	
3	LLS	S1005170030		0 0			Ammonium	LIQUID	.116078472	1.0712E-01			0.012	ug/mL	92.282	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1005120040		0 0	S		Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			
Sample Sequence 5																	
5	LCS	S1005120039		0 0	S		Ammonium	LIQUID	5.803921528	5.6348E+00			0.012	ug/mL	97.086	% Recovery	
Sample Sequence 6																	
6	SAMPLE	S10V000685		0 0	S		Ammonium	SOLID	N/A	1.1336E+00			0.473	ug/g			J
Sample Sequence 7																	
7	DUP	S1005120041	S10V000685	0 0	S		Ammonium	SOLID	1.1336E+00	9.5532E-01			0.4662	ug/g	17.069	% RPD	
Sample Sequence 8																	
8	SPK-PREDIG	S1005120042	S10V000685	0 0	S		Ammonium	SOLID	116.8312	1.1716E+02			0.47356	ug/g	99.311	% Recovery	
Sample Sequence 9																	
9	SPK-IC	S1005170042	S10V000685	0 0			Ammonium	SOLID	296	2.8812E+00			0.012	ug/g	96.365	% Recovery	
Sample Sequence 10																	
10	CCV	S1005170034		0 0			Ammonium	LIQUID	2.93069304	2.9373E+00			0.012	ug/mL	100.22	% Recovery	
Sample Sequence 11																	
11	CCB	S1005170035		0 0			Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			
Sample Sequence 12																	
12	SAMPLE	S10V000137		0 0	S		Ammonium	SOLID	N/A	3.8092E+00			0.47114	ug/g			J
Sample Sequence 13																	
13	SAMPLE	S10V000151		0 0	S		Ammonium	SOLID	N/A	3.4099E+00			0.473	ug/g			J
Sample Sequence 14																	
14	SAMPLE	S10V000694		0 0	S		Ammonium	SOLID	N/A	4.2392E+00			0.47059	ug/g			J
Sample Sequence 15																	
15	BLNK-PREP	S1005130070		0 0	S		Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			
Sample Sequence 16																	
16	LCS	S1005130069		0 0	S		Ammonium	LIQUID	5.803921528	5.6147E+00			0.012	ug/mL	96.74	% Recovery	
Sample Sequence 18																	
18	DUP	S1005130071	S10V000799	0 0	S		Ammonium	SOLID					0.47866	ug/g	1.3316	% RPD	
Sample Sequence 19																	

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019420

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
19	SPK-PREDIG	S1005130072	S10V000799	0 0	S		Ammonium	SOLID					0.47059	ug/g	88.004	% Recovery	
Sample Sequence 20																	
20	SPK-IC	S1005170043	S10V000799	0 0			Ammonium	SOLID					0.012	ug/g	98.134	% Recovery	
Sample Sequence 21																	
21	CCV	S1005170045		0 0			Ammonium	LIQUID	2.93069304	2.9629E+00			0.012	ug/mL	101.1	% Recovery	
Sample Sequence 22																	
22	CCB	S1005170044		0 0			Ammonium	LIQUID		<1.2000E-02			0.012	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019420

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019420

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005170028	CCV				
2	S1005170029	CCB				
3	S1005170030	LLS				
4	S1005120040	BLNK-PREP				
5	S1005120039	LCS				
6	S10V000685	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
7	S1005120041	DUP	S10V000685			
8	S1005120042	SPK-PREDIG	S10V000685			
9	S1005170042	SPK-IC	S10V000685			
10	S1005170034	CCV				
11	S1005170035	CCB				
12	S10V000137	SAMPLE		20100064	B23TK2	C Farm WMC 2010-1
13	S10V000151	SAMPLE		20100064	B23TK5	C Farm WMC 2010-1
14	S10V000694	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
15	S1005130070	BLNK-PREP				
16	S1005130069	LCS				
18	S1005130071	DUP	S10V000799			
19	S1005130072	SPK-PREDIG	S10V000799			
20	S1005170043	SPK-IC	S10V000799			
21	S1005170045	CCV				
22	S1005170044	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019058

Analyst: Mull, Bryanna **Book#:** 15N29D

Instrument: IC-6 (SMALL ORG ACIDS)

Method: IC - ANIONS/SMALL ORG. ACIDS, LA-533-115 Rev/Mod J-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019032, 00019034, 00019035, 00019055

Batch Comment:

C FARM and S-SX BARRIER IC ANIONS/SMALL ORGANIC ACIDS

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	CCV	S1004260051		0 0			Fluoride	LIQUID	.515775	5.0818E-01			1.61E-03	ug/mL	98.527	% Recovery	
1	CCV	S1004260051		0 0			Glycolate	LIQUID	2.832795	2.6415E+00			9.37E-03	ug/mL	93.247	% Recovery	
1	CCV	S1004260051		0 0			Acetate	LIQUID	3.467595	3.1947E+00			6.04E-03	ug/mL	92.13	% Recovery	
1	CCV	S1004260051		0 0			Formate	LIQUID	3.277155	3.1427E+00			4.67E-03	ug/mL	95.898	% Recovery	
1	CCV	S1004260051		0 0			Chloride	LIQUID	.690345	7.0266E-01			9.98E-03	ug/mL	101.78	% Recovery	
1	CCV	S1004260051		0 0			Nitrite	LIQUID	4.39599	4.3779E+00			0.0192	ug/mL	99.588	% Recovery	
1	CCV	S1004260051		0 0			Sulfate	LIQUID	5.26884	5.2479E+00			0.0187	ug/mL	99.602	% Recovery	
1	CCV	S1004260051		0 0			Oxalate	LIQUID	4.18968	4.1490E+00			0.0231	ug/mL	99.029	% Recovery	
1	CCV	S1004260051		0 0			Bromide	LIQUID	4.911765	5.0281E+00			0.058	ug/mL	102.37	% Recovery	
1	CCV	S1004260051		0 0			Nitrate	LIQUID	4.340445	4.2874E+00			0.0208	ug/mL	98.777	% Recovery	
1	CCV	S1004260051		0 0			Phosphate	LIQUID	4.150005	4.0275E+00			0.0167	ug/mL	97.048	% Recovery	
Sample Sequence 2																	
2	CCB	S1004260052		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
2	CCB	S1004260052		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
2	CCB	S1004260052		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
2	CCB	S1004260052		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
2	CCB	S1004260052		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
2	CCB	S1004260052		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
2	CCB	S1004260052		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
2	CCB	S1004260052		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
2	CCB	S1004260052		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
2	CCB	S1004260052		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
2	CCB	S1004260052		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 3																	
3	LLS	S1004260053		0 0			Fluoride	LIQUID	.0323375	2.7240E-02			1.61E-03	ug/mL	84.237	% Recovery	
3	LLS	S1004260053		0 0			Glycolate	LIQUID	.1776075	1.3008E-01			9.37E-03	ug/mL	73.24	% Recovery	
3	LLS	S1004260053		0 0			Acetate	LIQUID	.2174075	1.5092E-01			6.04E-03	ug/mL	69.418	% Recovery	
3	LLS	S1004260053		0 0			Formate	LIQUID	.2054675	1.6979E-01			4.67E-03	ug/mL	82.636	% Recovery	
3	LLS	S1004260053		0 0			Chloride	LIQUID	.0432825	4.2310E-02			9.98E-03	ug/mL	97.753	% Recovery	
3	LLS	S1004260053		0 0			Nitrite	LIQUID	.275615	2.5427E-01			0.0192	ug/mL	92.256	% Recovery	
3	LLS	S1004260053		0 0			Sulfate	LIQUID	.33034	3.1687E-01			0.0187	ug/mL	95.922	% Recovery	
3	LLS	S1004260053		0 0			Oxalate	LIQUID	.26268	2.4588E-01			0.0231	ug/mL	93.604	% Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019058

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	LLS	S1004260053		0 0			Bromide	LIQUID	.3079525	2.7787E-01			0.058	ug/mL	90.231	% Recovery	
3	LLS	S1004260053		0 0			Nitrate	LIQUID	.2721325	2.5433E-01			0.0208	ug/mL	93.458	% Recovery	
3	LLS	S1004260053		0 0			Phosphate	LIQUID	.2601925	2.3126E-01			0.0167	ug/mL	88.88	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1004260005		0 0	W		Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
4	BLNK-PREP	S1004260005		0 0	W		Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
4	BLNK-PREP	S1004260005		0 0	W		Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
4	BLNK-PREP	S1004260005		0 0	W		Formate	LIQUID		8.9000E-03			4.67E-03	ug/mL			
4	BLNK-PREP	S1004260005		0 0	W		Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
4	BLNK-PREP	S1004260005		0 0	W		Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
4	BLNK-PREP	S1004260005		0 0	W		Sulfate	LIQUID		3.3650E-02			0.0187	ug/mL			
4	BLNK-PREP	S1004260005		0 0	W		Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
4	BLNK-PREP	S1004260005		0 0	W		Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
4	BLNK-PREP	S1004260005		0 0	W		Nitrate	LIQUID		3.9220E-02			0.0208	ug/mL			
4	BLNK-PREP	S1004260005		0 0	W		Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 5																	
5	SAMPLE	S09V001617		0 0	W		Fluoride	SOLID	N/A	1.0313E+00			0.016972	ug/g			
5	SAMPLE	S09V001617		0 0	W		Glycolate	SOLID	N/A	<9.8777E-02			0.098777	ug/g			U
5	SAMPLE	S09V001617		0 0	W		Acetate	SOLID	N/A	1.9281E-01			0.063673	ug/g			J
5	SAMPLE	S09V001617		0 0	W		Formate	SOLID	N/A	2.4331E-01			0.04923	ug/g			BJ
5	SAMPLE	S09V001617		0 0	W		Chloride	SOLID	N/A	3.1636E-01			0.10521	ug/g			J
5	SAMPLE	S09V001617		0 0	W		Nitrite	SOLID	N/A	1.2764E+00			0.2024	ug/g			J
5	SAMPLE	S09V001617		0 0	W		Sulfate	SOLID	N/A	3.4544E+00			0.19713	ug/g			B
5	SAMPLE	S09V001617		0 0	W		Oxalate	SOLID	N/A	<2.4352E-01			0.24352	ug/g			U
5	SAMPLE	S09V001617		0 0	W		Bromide	SOLID	N/A	<6.1143E-01			0.61143	ug/g			U
5	SAMPLE	S09V001617		0 0	W		Nitrate	SOLID	N/A	3.3320E+00			0.21927	ug/g			B
5	SAMPLE	S09V001617		0 0	W		Phosphate	SOLID	N/A	2.5707E+00			0.17605	ug/g			J
Sample Sequence 6																	
6	DUP	S1004260006	S09V001617	0 0	W		Fluoride	SOLID		1.0100E+00			0.016879	ug/g	2.0878	% RPD	
6	DUP	S1004260006	S09V001617	0 0	W		Glycolate	SOLID		<9.8237E-02			0.098237	ug/g			
6	DUP	S1004260006	S09V001617	0 0	W		Acetate	SOLID		1.8746E-01			0.063324	ug/g	2.8140	% RPD	
6	DUP	S1004260006	S09V001617	0 0	W		Formate	SOLID		2.3233E-01			0.048961	ug/g	4.6153	% RPD	
6	DUP	S1004260006	S09V001617	0 0	W		Chloride	SOLID		2.8202E-01			0.10463	ug/g	11.478	% RPD	
6	DUP	S1004260006	S09V001617	0 0	W		Nitrite	SOLID		1.2365E+00			0.2013	ug/g	3.1762	% RPD	
6	DUP	S1004260006	S09V001617	0 0	W		Sulfate	SOLID		3.4520E+00			0.19605	ug/g	0.068163	% RPD	
6	DUP	S1004260006	S09V001617	0 0	W		Oxalate	SOLID		<2.4218E-01			0.24218	ug/g			
6	DUP	S1004260006	S09V001617	0 0	W		Bromide	SOLID		<6.0808E-01			0.60808	ug/g			
6	DUP	S1004260006	S09V001617	0 0	W		Nitrate	SOLID		3.3301E+00			0.21807	ug/g	0.055925	% RPD	
6	DUP	S1004260006	S09V001617	0 0	W		Phosphate	SOLID		2.5420E+00			0.17509	ug/g	1.1241	% RPD	
Sample Sequence 7																	
7	SPK-IC	S1004260054	S09V001617	0 0			Fluoride	SOLID	65	7.4381E-01			1.61E-03	ug/g	100.38	% Recovery	
7	SPK-IC	S1004260054	S09V001617	0 0			Glycolate	SOLID	357	3.3751E+00			9.37E-03	ug/g	95.485	% Recovery	
7	SPK-IC	S1004260054	S09V001617	0 0			Acetate	SOLID	437	3.9955E+00			6.04E-03	ug/g	91.922	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019058

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	SPK-IC	S1004260054	S09V001617	0 0			Formate	SOLID	413	4.0122E+00			4.67E-03	ug/g	97.555	% Recovery	
7	SPK-IC	S1004260054	S09V001617	0 0			Chloride	SOLID	87	8.7388E-01			9.98E-03	ug/g	97.967	% Recovery	
7	SPK-IC	S1004260054	S09V001617	0 0			Nitrite	SOLID	554	5.7251E+00			0.0192	ug/g	102.17	% Recovery	
7	SPK-IC	S1004260054	S09V001617	0 0			Sulfate	SOLID	664	6.8890E+00			0.0187	ug/g	99.804	% Recovery	
7	SPK-IC	S1004260054	S09V001617	0 0			Oxalate	SOLID	528	5.1026E+00			0.0231	ug/g	97.607	% Recovery	
7	SPK-IC	S1004260054	S09V001617	0 0			Bromide	SOLID	619	6.1395E+00			0.058	ug/g	100.18	% Recovery	
7	SPK-IC	S1004260054	S09V001617	0 0			Nitrate	SOLID	547	5.6022E+00			0.0208	ug/g	97.604	% Recovery	
7	SPK-IC	S1004260054	S09V001617	0 0			Phosphate	SOLID	523	5.3272E+00			0.0167	ug/g	98.167	% Recovery	
Sample Sequence 8																	
8	SAMPLE	S09V001629		0 0	W		Fluoride	SOLID	N/A	1.2804E+00			0.017438	ug/g			
8	SAMPLE	S09V001629		0 0	W		Glycolate	SOLID	N/A	<1.0149E-01			0.10149	ug/g			U
8	SAMPLE	S09V001629		0 0	W		Acetate	SOLID	N/A	2.6947E-01			0.065419	ug/g			J
8	SAMPLE	S09V001629		0 0	W		Formate	SOLID	N/A	1.8586E-01			0.050581	ug/g			BJ
8	SAMPLE	S09V001629		0 0	W		Chloride	SOLID	N/A	3.8363E-01			0.10809	ug/g			J
8	SAMPLE	S09V001629		0 0	W		Nitrite	SOLID	N/A	1.6267E+00			0.20795	ug/g			J
8	SAMPLE	S09V001629		0 0	W		Sulfate	SOLID	N/A	3.6988E+00			0.20254	ug/g			B
8	SAMPLE	S09V001629		0 0	W		Oxalate	SOLID	N/A	4.3107E-01			0.25019	ug/g			J
8	SAMPLE	S09V001629		0 0	W		Bromide	SOLID	N/A	<6.2820E-01			0.6282	ug/g			U
8	SAMPLE	S09V001629		0 0	W		Nitrate	SOLID	N/A	3.8509E+00			0.22528	ug/g			B
8	SAMPLE	S09V001629		0 0	W		Phosphate	SOLID	N/A	3.0413E+00			0.18088	ug/g			J
Sample Sequence 9																	
9	SAMPLE	S09V001644		0 0	W		Fluoride	SOLID	N/A	3.2884E+00			0.017606	ug/g			
9	SAMPLE	S09V001644		0 0	W		Glycolate	SOLID	N/A	<1.0246E-01			0.10246	ug/g			U
9	SAMPLE	S09V001644		0 0	W		Acetate	SOLID	N/A	3.1910E-01			0.06605	ug/g			J
9	SAMPLE	S09V001644		0 0	W		Formate	SOLID	N/A	4.3261E-01			0.051068	ug/g			BJ
9	SAMPLE	S09V001644		0 0	W		Chloride	SOLID	N/A	7.8997E-01			0.10914	ug/g			
9	SAMPLE	S09V001644		0 0	W		Nitrite	SOLID	N/A	1.5842E+00			0.20996	ug/g			J
9	SAMPLE	S09V001644		0 0	W		Sulfate	SOLID	N/A	1.1712E+01			0.20449	ug/g			
9	SAMPLE	S09V001644		0 0	W		Oxalate	SOLID	N/A	6.5875E-01			0.25261	ug/g			J
9	SAMPLE	S09V001644		0 0	W		Bromide	SOLID	N/A	<6.3425E-01			0.63425	ug/g			U
9	SAMPLE	S09V001644		0 0	W		Nitrate	SOLID	N/A	1.1448E+01			0.22746	ug/g			
9	SAMPLE	S09V001644		0 0	W		Phosphate	SOLID	N/A	<1.8262E-01			0.18262	ug/g			U
Sample Sequence 10																	
10	SAMPLE	S10V000087		0 0	W		Fluoride	SOLID	N/A	9.7027E-01			0.016976	ug/g			
10	SAMPLE	S10V000087		0 0	W		Glycolate	SOLID	N/A	<9.8798E-02			0.098798	ug/g			U
10	SAMPLE	S10V000087		0 0	W		Acetate	SOLID	N/A	<6.3686E-02			0.063686	ug/g			U
10	SAMPLE	S10V000087		0 0	W		Formate	SOLID	N/A	1.0057E+00			0.049241	ug/g			BJ
10	SAMPLE	S10V000087		0 0	W		Chloride	SOLID	N/A	2.0425E+01			0.10523	ug/g			
10	SAMPLE	S10V000087		0 0	W		Nitrite	SOLID	N/A	1.3732E+00			0.20245	ug/g			J
10	SAMPLE	S10V000087		0 0	W		Sulfate	SOLID	N/A	2.3239E+02			0.19717	ug/g			
10	SAMPLE	S10V000087		0 0	W		Oxalate	SOLID	N/A	<2.4357E-01			0.24357	ug/g			U
10	SAMPLE	S10V000087		0 0	W		Bromide	SOLID	N/A	<6.1156E-01			0.61156	ug/g			U
10	SAMPLE	S10V000087		0 0	W		Nitrate	SOLID	N/A	3.0523E+01			0.21932	ug/g			

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LABCORE Completed Batch Report for Batch# 00019058

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
10	SAMPLE	S10V000087		0 0	W		Phosphate	SOLID	N/A	4.3104E-01			0.17609	ug/g			J
Sample Sequence 11																	
11	SAMPLE	S10V000419		0 0	W		Fluoride	SOLID	N/A	1.1123E+00			0.016889	ug/g			
11	SAMPLE	S10V000419		0 0	W		Glycolate	SOLID	N/A	<9.8290E-02			0.09829	ug/g			U
11	SAMPLE	S10V000419		0 0	W		Acetate	SOLID	N/A	3.1228E-01			0.063359	ug/g			J
11	SAMPLE	S10V000419		0 0	W		Formate	SOLID	N/A	2.6277E-01			0.048988	ug/g			BJ
11	SAMPLE	S10V000419		0 0	W		Chloride	SOLID	N/A	9.3475E-01			0.10469	ug/g			
11	SAMPLE	S10V000419		0 0	W		Nitrite	SOLID	N/A	9.7608E-01			0.20141	ug/g			J
11	SAMPLE	S10V000419		0 0	W		Sulfate	SOLID	N/A	1.8416E+00			0.19616	ug/g			BJ
11	SAMPLE	S10V000419		0 0	W		Oxalate	SOLID	N/A	3.1774E-01			0.24232	ug/g			J
11	SAMPLE	S10V000419		0 0	W		Bromide	SOLID	N/A	<6.0841E-01			0.60841	ug/g			U
11	SAMPLE	S10V000419		0 0	W		Nitrate	SOLID	N/A	2.7253E+00			0.21819	ug/g			B
11	SAMPLE	S10V000419		0 0	W		Phosphate	SOLID	N/A	5.5082E-01			0.17518	ug/g			J
Sample Sequence 12																	
12	SAMPLE	S10V000577		0 0	W		Fluoride	SOLID	N/A	1.0474E+00			0.017823	ug/g			
12	SAMPLE	S10V000577		0 0	W		Glycolate	SOLID	N/A	<1.0373E-01			0.10373	ug/g			U
12	SAMPLE	S10V000577		0 0	W		Acetate	SOLID	N/A	4.7336E-01			0.066864	ug/g			J
12	SAMPLE	S10V000577		0 0	W		Formate	SOLID	N/A	3.5071E-01			0.051698	ug/g			BJ
12	SAMPLE	S10V000577		0 0	W		Chloride	SOLID	N/A	5.8772E-01			0.11048	ug/g			
12	SAMPLE	S10V000577		0 0	W		Nitrite	SOLID	N/A	1.2899E+00			0.21255	ug/g			J
12	SAMPLE	S10V000577		0 0	W		Sulfate	SOLID	N/A	2.4382E+00			0.20701	ug/g			BJ
12	SAMPLE	S10V000577		0 0	W		Oxalate	SOLID	N/A	5.2296E-01			0.25572	ug/g			J
12	SAMPLE	S10V000577		0 0	W		Bromide	SOLID	N/A	<6.4208E-01			0.64208	ug/g			U
12	SAMPLE	S10V000577		0 0	W		Nitrate	SOLID	N/A	3.3117E+00			0.23026	ug/g			B
12	SAMPLE	S10V000577		0 0	W		Phosphate	SOLID	N/A	1.1829E+00			0.18487	ug/g			J
Sample Sequence 13																	
13	CCV	S1004260055		0 0			Fluoride	LIQUID	.51584	5.0821E-01			1.61E-03	ug/mL	98.521	% Recovery	
13	CCV	S1004260055		0 0			Glycolate	LIQUID	2.833152	2.6540E+00			9.37E-03	ug/mL	93.677	% Recovery	
13	CCV	S1004260055		0 0			Acetate	LIQUID	3.468032	3.2202E+00			6.04E-03	ug/mL	92.853	% Recovery	
13	CCV	S1004260055		0 0			Formate	LIQUID	3.277568	3.1515E+00			4.67E-03	ug/mL	96.153	% Recovery	
13	CCV	S1004260055		0 0			Chloride	LIQUID	.690432	6.9124E-01			9.98E-03	ug/mL	100.12	% Recovery	
13	CCV	S1004260055		0 0			Nitrite	LIQUID	4.396544	4.4004E+00			0.0192	ug/mL	100.09	% Recovery	
13	CCV	S1004260055		0 0			Sulfate	LIQUID	5.269504	5.2453E+00			0.0187	ug/mL	99.541	% Recovery	
13	CCV	S1004260055		0 0			Oxalate	LIQUID	4.190208	4.1638E+00			0.0231	ug/mL	99.369	% Recovery	
13	CCV	S1004260055		0 0			Bromide	LIQUID	4.912384	4.8851E+00			0.058	ug/mL	99.445	% Recovery	
13	CCV	S1004260055		0 0			Nitrate	LIQUID	4.340992	4.2534E+00			0.0208	ug/mL	97.982	% Recovery	
13	CCV	S1004260055		0 0			Phosphate	LIQUID	4.150528	4.0381E+00			0.0167	ug/mL	97.291	% Recovery	
Sample Sequence 14																	
14	CCB	S1004260056		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
14	CCB	S1004260056		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
14	CCB	S1004260056		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
14	CCB	S1004260056		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
14	CCB	S1004260056		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			

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LABCORE Completed Batch Report for Batch# 00019058

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
14	CCB	S1004260056		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
14	CCB	S1004260056		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
14	CCB	S1004260056		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
14	CCB	S1004260056		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
14	CCB	S1004260056		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
14	CCB	S1004260056		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 15																	
15	BLNK-PREP	S1004220134		0 0	WV		Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
15	BLNK-PREP	S1004220134		0 0	WV		Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
15	BLNK-PREP	S1004220134		0 0	WV		Acetate	LIQUID		7.1200E-03			6.04E-03	ug/mL			
15	BLNK-PREP	S1004220134		0 0	WV		Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
15	BLNK-PREP	S1004220134		0 0	WV		Chloride	LIQUID		1.7410E-02			9.98E-03	ug/mL			
15	BLNK-PREP	S1004220134		0 0	WV		Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
15	BLNK-PREP	S1004220134		0 0	WV		Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
15	BLNK-PREP	S1004220134		0 0	WV		Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
15	BLNK-PREP	S1004220134		0 0	WV		Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
15	BLNK-PREP	S1004220134		0 0	WV		Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
15	BLNK-PREP	S1004220134		0 0	WV		Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 17																	
17	DUP	S1004220135	S10V000734	0 0	WV		Fluoride	SOLID					1.62E-03	ug/g			
17	DUP	S1004220135	S10V000734	0 0	WV		Glycolate	SOLID					9.40E-03	ug/g			
17	DUP	S1004220135	S10V000734	0 0	WV		Acetate	SOLID					6.06E-03	ug/g			
17	DUP	S1004220135	S10V000734	0 0	WV		Formate	SOLID					4.69E-03	ug/g			
17	DUP	S1004220135	S10V000734	0 0	WV		Chloride	SOLID					0.010012	ug/g			
17	DUP	S1004220135	S10V000734	0 0	WV		Nitrite	SOLID					0.019262	ug/g			
17	DUP	S1004220135	S10V000734	0 0	WV		Sulfate	SOLID					0.01876	ug/g			
17	DUP	S1004220135	S10V000734	0 0	WV		Oxalate	SOLID					0.023174	ug/g			
17	DUP	S1004220135	S10V000734	0 0	WV		Bromide	SOLID					0.058186	ug/g			
17	DUP	S1004220135	S10V000734	0 0	WV		Nitrate	SOLID					0.020867	ug/g	17.371	% RPD	
17	DUP	S1004220135	S10V000734	0 0	WV		Phosphate	SOLID					0.016754	ug/g			
Sample Sequence 18																	
18	SPK	S1004260112	S10V000734	0 0			Fluoride	SOLID					1.61E-03	ug/g	94.415	% Recovery	
18	SPK	S1004260112	S10V000734	0 0			Glycolate	SOLID					9.37E-03	ug/g	94.525	% Recovery	
18	SPK	S1004260112	S10V000734	0 0			Acetate	SOLID					6.04E-03	ug/g	94.105	% Recovery	
18	SPK	S1004260112	S10V000734	0 0			Formate	SOLID					4.67E-03	ug/g	93.873	% Recovery	
18	SPK	S1004260112	S10V000734	0 0			Chloride	SOLID					9.98E-03	ug/g	89.729	% Recovery	
18	SPK	S1004260112	S10V000734	0 0			Nitrite	SOLID					0.0192	ug/g	95.758	% Recovery	
18	SPK	S1004260112	S10V000734	0 0			Sulfate	SOLID					0.0187	ug/g	86.896	% Recovery	
18	SPK	S1004260112	S10V000734	0 0			Oxalate	SOLID					0.0231	ug/g	81.705	% Recovery	
18	SPK	S1004260112	S10V000734	0 0			Bromide	SOLID					0.058	ug/g	77.415	% Recovery	
18	SPK	S1004260112	S10V000734	0 0			Nitrate	SOLID					0.0208	ug/g	88.05	% Recovery	
18	SPK	S1004260112	S10V000734	0 0			Phosphate	SOLID					0.0167	ug/g	94.602	% Recovery	
Sample Sequence 19																	

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019058

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
19	BLNK-PREP	S1004220138		0 0	W		Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
19	BLNK-PREP	S1004220138		0 0	W		Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
19	BLNK-PREP	S1004220138		0 0	W		Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
19	BLNK-PREP	S1004220138		0 0	W		Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
19	BLNK-PREP	S1004220138		0 0	W		Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
19	BLNK-PREP	S1004220138		0 0	W		Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
19	BLNK-PREP	S1004220138		0 0	W		Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
19	BLNK-PREP	S1004220138		0 0	W		Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
19	BLNK-PREP	S1004220138		0 0	W		Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
19	BLNK-PREP	S1004220138		0 0	W		Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
19	BLNK-PREP	S1004220138		0 0	W		Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 20																	
20	SAMPLE	S10V000629		0 0	W		Fluoride	SOLID	N/A	1.1076E+00			0.016961	ug/g			
20	SAMPLE	S10V000629		0 0	W		Glycolate	SOLID	N/A	<9.8711E-02			0.098711	ug/g			U
20	SAMPLE	S10V000629		0 0	W		Acetate	SOLID	N/A	5.2790E-01			0.06363	ug/g			J
20	SAMPLE	S10V000629		0 0	W		Formate	SOLID	N/A	7.3975E-01			0.049197	ug/g			J
20	SAMPLE	S10V000629		0 0	W		Chloride	SOLID	N/A	5.5982E-01			0.10514	ug/g			J
20	SAMPLE	S10V000629		0 0	W		Nitrite	SOLID	N/A	2.4200E+00			0.20227	ug/g			J
20	SAMPLE	S10V000629		0 0	W		Sulfate	SOLID	N/A	7.3521E+00			0.197	ug/g			
20	SAMPLE	S10V000629		0 0	W		Oxalate	SOLID	N/A	3.2052E+00			0.24335	ug/g			c
20	SAMPLE	S10V000629		0 0	W		Bromide	SOLID	N/A	<6.1102E-01			0.61102	ug/g			U
20	SAMPLE	S10V000629		0 0	W		Nitrate	SOLID	N/A	5.8714E+00			0.21912	ug/g			
20	SAMPLE	S10V000629		0 0	W		Phosphate	SOLID	N/A	9.5508E-01			0.17593	ug/g			J
Sample Sequence 21																	
21	DUP	S1004220139	S10V000629	0 0	W		Fluoride	SOLID	1.1076E+00	1.2060E+00			0.017093	ug/g	8.5042	% RPD	
21	DUP	S1004220139	S10V000629	0 0	W		Glycolate	SOLID	<9.8711E-02	<9.9482E-02			0.099482	ug/g			
21	DUP	S1004220139	S10V000629	0 0	W		Acetate	SOLID	5.2790E-01	6.7461E-01			0.064127	ug/g	24.401	% RPD	
21	DUP	S1004220139	S10V000629	0 0	W		Formate	SOLID	7.3975E-01	7.4043E-01			0.049582	ug/g	0.091922	% RPD	
21	DUP	S1004220139	S10V000629	0 0	W		Chloride	SOLID	5.5982E-01	6.3320E-01			0.10596	ug/g	12.302	% RPD	
21	DUP	S1004220139	S10V000629	0 0	W		Nitrite	SOLID	2.4200E+00	2.3131E+00			0.20385	ug/g	4.5188	% RPD	
21	DUP	S1004220139	S10V000629	0 0	W		Sulfate	SOLID	7.3521E+00	5.8902E+00			0.19854	ug/g	22.079	% RPD	
21	DUP	S1004220139	S10V000629	0 0	W		Oxalate	SOLID	3.2052E+00	1.6999E+00			0.24525	ug/g	61.377	% RPD	
21	DUP	S1004220139	S10V000629	0 0	W		Bromide	SOLID	<6.1102E-01	<6.1579E-01			0.61579	ug/g			
21	DUP	S1004220139	S10V000629	0 0	W		Nitrate	SOLID	5.8714E+00	5.9346E+00			0.22083	ug/g	1.0701	% RPD	
21	DUP	S1004220139	S10V000629	0 0	W		Phosphate	SOLID	9.5508E-01	1.0614E+00			0.1773	ug/g	10.545	% RPD	
Sample Sequence 22																	
22	SPK	S1004260111	S10V000629	0 0			Fluoride	SOLID	.65	7.4395E-01			1.61E-03	ug/g	98.278	% Recovery	
22	SPK	S1004260111	S10V000629	0 0			Glycolate	SOLID	3.57	3.3121E+00			9.37E-03	ug/g	92.776	% Recovery	
22	SPK	S1004260111	S10V000629	0 0			Acetate	SOLID	4.37	4.1392E+00			6.04E-03	ug/g	93.573	% Recovery	
22	SPK	S1004260111	S10V000629	0 0			Formate	SOLID	4.13	4.0328E+00			4.67E-03	ug/g	95.946	% Recovery	
22	SPK	S1004260111	S10V000629	0 0			Chloride	SOLID	.87	8.9148E-01			9.98E-03	ug/g	96.361	% Recovery	
22	SPK	S1004260111	S10V000629	0 0			Nitrite	SOLID	5.54	5.6267E+00			0.0192	ug/g	97.418	% Recovery	
22	SPK	S1004260111	S10V000629	0 0			Sulfate	SOLID	6.64	7.0665E+00			0.0187	ug/g	95.913	% Recovery	

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019058

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
22	SPK	S1004260111	S10V000629	0 0			Oxalate	SOLID	5.28	5.3140E+00			0.0231	ug/g	94.882	% Recovery	
22	SPK	S1004260111	S10V000629	0 0			Bromide	SOLID	6.19	5.9290E+00			0.058	ug/g	95.784	% Recovery	
22	SPK	S1004260111	S10V000629	0 0			Nitrate	SOLID	5.47	5.7381E+00			0.0208	ug/g	94.713	% Recovery	
22	SPK	S1004260111	S10V000629	0 0			Phosphate	SOLID	5.23	5.1240E+00			0.0167	ug/g	96.239	% Recovery	
Sample Sequence 23																	
23	BLNK-PREP	S1004220140		0 0	W		Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
23	BLNK-PREP	S1004220140		0 0	W		Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
23	BLNK-PREP	S1004220140		0 0	W		Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
23	BLNK-PREP	S1004220140		0 0	W		Formate	LIQUID		6.4900E-03			4.67E-03	ug/mL			
23	BLNK-PREP	S1004220140		0 0	W		Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
23	BLNK-PREP	S1004220140		0 0	W		Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
23	BLNK-PREP	S1004220140		0 0	W		Sulfate	LIQUID		3.1330E-02			0.0187	ug/mL			
23	BLNK-PREP	S1004220140		0 0	W		Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
23	BLNK-PREP	S1004220140		0 0	W		Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
23	BLNK-PREP	S1004220140		0 0	W		Nitrate	LIQUID		2.9980E-02			0.0208	ug/mL			
23	BLNK-PREP	S1004220140		0 0	W		Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 25																	
25	CCV	S1004260114		0 0			Fluoride	LIQUID	.51584	5.1179E-01			1.61E-03	ug/mL	99.215	% Recovery	
25	CCV	S1004260114		0 0			Glycolate	LIQUID	2.833152	2.6706E+00			9.37E-03	ug/mL	94.261	% Recovery	
25	CCV	S1004260114		0 0			Acetate	LIQUID	3.468032	3.2686E+00			6.04E-03	ug/mL	94.251	% Recovery	
25	CCV	S1004260114		0 0			Formate	LIQUID	3.277568	3.2094E+00			4.67E-03	ug/mL	97.919	% Recovery	
25	CCV	S1004260114		0 0			Chloride	LIQUID	.690432	6.9658E-01			9.98E-03	ug/mL	100.89	% Recovery	
25	CCV	S1004260114		0 0			Nitrite	LIQUID	4.396544	4.3762E+00			0.0192	ug/mL	99.537	% Recovery	
25	CCV	S1004260114		0 0			Sulfate	LIQUID	5.269504	5.3274E+00			0.0187	ug/mL	101.1	% Recovery	
25	CCV	S1004260114		0 0			Oxalate	LIQUID	4.190208	4.2594E+00			0.0231	ug/mL	101.65	% Recovery	
25	CCV	S1004260114		0 0			Bromide	LIQUID	4.912384	4.9106E+00			0.058	ug/mL	99.964	% Recovery	
25	CCV	S1004260114		0 0			Nitrate	LIQUID	4.340992	4.3064E+00			0.0208	ug/mL	99.204	% Recovery	
25	CCV	S1004260114		0 0			Phosphate	LIQUID	4.150528	4.1143E+00			0.0167	ug/mL	99.128	% Recovery	
Sample Sequence 26																	
26	CCB	S1004260115		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
26	CCB	S1004260115		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
26	CCB	S1004260115		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
26	CCB	S1004260115		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
26	CCB	S1004260115		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
26	CCB	S1004260115		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
26	CCB	S1004260115		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
26	CCB	S1004260115		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
26	CCB	S1004260115		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
26	CCB	S1004260115		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
26	CCB	S1004260115		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 27																	
27	DUP	S1004220141	S10V000740	0 0	W		Fluoride	SOLID					0.016545	ug/g	0.72570	% RPD	
27	DUP	S1004220141	S10V000740	0 0	W		Glycolate	SOLID					0.096288	ug/g	28.271	% RPD	

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LABCORE Completed Batch Report for Batch# 00019058

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
27	DUP	S1004220141	S10V000740	0 0	W		Acetate	SOLID					0.062068	ug/g	26.359	% RPD	
27	DUP	S1004220141	S10V000740	0 0	W		Formate	SOLID					0.04799	ug/g	18.158	% RPD	
27	DUP	S1004220141	S10V000740	0 0	W		Chloride	SOLID					0.10256	ug/g	11.019	% RPD	
27	DUP	S1004220141	S10V000740	0 0	W		Nitrite	SOLID					0.1973	ug/g	47.867	% RPD	
27	DUP	S1004220141	S10V000740	0 0	W		Sulfate	SOLID					0.19217	ug/g	8.0505	% RPD	
27	DUP	S1004220141	S10V000740	0 0	W		Oxalate	SOLID					0.23738	ug/g	29.760	% RPD	
27	DUP	S1004220141	S10V000740	0 0	W		Bromide	SOLID					0.59602	ug/g			
27	DUP	S1004220141	S10V000740	0 0	W		Nitrate	SOLID					0.21375	ug/g	11.993	% RPD	
27	DUP	S1004220141	S10V000740	0 0	W		Phosphate	SOLID					0.17161	ug/g	8.7637	% RPD	
Sample Sequence 28																	
28	SPK	S1004260113	S10V000740	0 0			Fluoride	SOLID					1.61E-03	ug/g	98.737	% Recovery	
28	SPK	S1004260113	S10V000740	0 0			Glycolate	SOLID					9.37E-03	ug/g	94.599	% Recovery	
28	SPK	S1004260113	S10V000740	0 0			Acetate	SOLID					6.04E-03	ug/g	94.55	% Recovery	
28	SPK	S1004260113	S10V000740	0 0			Formate	SOLID					4.67E-03	ug/g	97.313	% Recovery	
28	SPK	S1004260113	S10V000740	0 0			Chloride	SOLID					9.98E-03	ug/g	97.723	% Recovery	
28	SPK	S1004260113	S10V000740	0 0			Nitrite	SOLID					0.0192	ug/g	97.788	% Recovery	
28	SPK	S1004260113	S10V000740	0 0			Sulfate	SOLID					0.0187	ug/g	98.172	% Recovery	
28	SPK	S1004260113	S10V000740	0 0			Oxalate	SOLID					0.0231	ug/g	98.38	% Recovery	
28	SPK	S1004260113	S10V000740	0 0			Bromide	SOLID					0.058	ug/g	99.174	% Recovery	
28	SPK	S1004260113	S10V000740	0 0			Nitrate	SOLID					0.0208	ug/g	96.745	% Recovery	
28	SPK	S1004260113	S10V000740	0 0			Phosphate	SOLID					0.0167	ug/g	96.528	% Recovery	
Sample Sequence 29																	
29	CCV	S1004260116		0 0			Fluoride	LIQUID	.51584	5.0826E-01			1.61E-03	ug/mL	98.531	% Recovery	
29	CCV	S1004260116		0 0			Glycolate	LIQUID	2.833152	2.6442E+00			9.37E-03	ug/mL	93.33	% Recovery	
29	CCV	S1004260116		0 0			Acetate	LIQUID	3.468032	3.2611E+00			6.04E-03	ug/mL	94.033	% Recovery	
29	CCV	S1004260116		0 0			Formate	LIQUID	3.277568	3.1590E+00			4.67E-03	ug/mL	96.382	% Recovery	
29	CCV	S1004260116		0 0			Chloride	LIQUID	.690432	6.9047E-01			9.98E-03	ug/mL	100.01	% Recovery	
29	CCV	S1004260116		0 0			Nitrite	LIQUID	4.396544	4.2600E+00			0.0192	ug/mL	96.895	% Recovery	
29	CCV	S1004260116		0 0			Sulfate	LIQUID	5.269504	5.2453E+00			0.0187	ug/mL	99.541	% Recovery	
29	CCV	S1004260116		0 0			Oxalate	LIQUID	4.190208	4.2055E+00			0.0231	ug/mL	100.36	% Recovery	
29	CCV	S1004260116		0 0			Bromide	LIQUID	4.912384	4.8380E+00			0.058	ug/mL	98.485	% Recovery	
29	CCV	S1004260116		0 0			Nitrate	LIQUID	4.340992	4.2366E+00			0.0208	ug/mL	97.594	% Recovery	
29	CCV	S1004260116		0 0			Phosphate	LIQUID	4.150528	4.0448E+00			0.0167	ug/mL	97.452	% Recovery	
Sample Sequence 30																	
30	CCB	S1004260117		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
30	CCB	S1004260117		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
30	CCB	S1004260117		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
30	CCB	S1004260117		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
30	CCB	S1004260117		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
30	CCB	S1004260117		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
30	CCB	S1004260117		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
30	CCB	S1004260117		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
30	CCB	S1004260117		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019058

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
30	CCB	S1004260117		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
30	CCB	S1004260117		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019058

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019058

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004260051	CCV				
2	S1004260052	CCB				
3	S1004260053	LLS				
4	S1004260005	BLNK-PREP				
5	S09V001617	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
6	S1004260006	DUP	S09V001617			
7	S1004260054	SPK-IC	S09V001617			
8	S09V001629	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
9	S09V001644	SAMPLE		20090877	B236P2	C Farm WMC 2010-1
10	S10V000087	SAMPLE		20090877	B238K3	C Farm WMC 2010-1
11	S10V000419	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
12	S10V000577	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
13	S1004260055	CCV				
14	S1004260056	CCB				
15	S1004220134	BLNK-PREP				
17	S1004220135	DUP	S10V000734			
18	S1004260112	SPK	S10V000734			
19	S1004220138	BLNK-PREP				
20	S10V000629	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
21	S1004220139	DUP	S10V000629			
22	S1004260111	SPK	S10V000629			
23	S1004220140	BLNK-PREP				
25	S1004260114	CCV				
26	S1004260115	CCB				
27	S1004220141	DUP	S10V000740			
28	S1004260113	SPK	S10V000740			
29	S1004260116	CCV				
30	S1004260117	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019147

Analyst: Thorndike, Kathy **Book#:** 15N29D

Instrument: IC-6 (SMALL ORG ACIDS)

Method: IC - ANIONS/SMALL ORG. ACIDS, LA-533-115 Rev/Mod J-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019142

Batch Comment: C FARM IC DIGEST RUN

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	CCV	S1004290058		0 0			Fluoride	LIQUID	.51584	5.1766E-01			1.61E-03	ug/mL	100.35	% Recovery	
1	CCV	S1004290058		0 0			Glycolate	LIQUID	2.833152	2.7138E+00			9.37E-03	ug/mL	95.786	% Recovery	
1	CCV	S1004290058		0 0			Acetate	LIQUID	3.468032	3.2249E+00			6.04E-03	ug/mL	92.988	% Recovery	
1	CCV	S1004290058		0 0			Formate	LIQUID	3.277568	3.1914E+00			4.67E-03	ug/mL	97.372	% Recovery	
1	CCV	S1004290058		0 0			Chloride	LIQUID	.690432	6.8572E-01			9.98E-03	ug/mL	99.318	% Recovery	
1	CCV	S1004290058		0 0			Nitrite	LIQUID	4.396544	4.4580E+00			0.0192	ug/mL	101.4	% Recovery	
1	CCV	S1004290058		0 0			Sulfate	LIQUID	5.269504	5.3060E+00			0.0187	ug/mL	100.69	% Recovery	
1	CCV	S1004290058		0 0			Oxalate	LIQUID	4.190208	4.1396E+00			0.0231	ug/mL	98.792	% Recovery	
1	CCV	S1004290058		0 0			Bromide	LIQUID	4.912384	4.9165E+00			0.058	ug/mL	100.08	% Recovery	
1	CCV	S1004290058		0 0			Nitrate	LIQUID	4.340992	4.2413E+00			0.0208	ug/mL	97.703	% Recovery	
1	CCV	S1004290058		0 0			Phosphate	LIQUID	4.150528	4.0847E+00			0.0167	ug/mL	98.413	% Recovery	
Sample Sequence 2																	
2	CCB	S1004290059		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
2	CCB	S1004290059		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
2	CCB	S1004290059		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
2	CCB	S1004290059		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
2	CCB	S1004290059		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
2	CCB	S1004290059		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
2	CCB	S1004290059		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
2	CCB	S1004290059		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
2	CCB	S1004290059		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
2	CCB	S1004290059		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
2	CCB	S1004290059		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 3																	
3	LLS	S1004290060		0 0			Fluoride	LIQUID	.0323375	2.7450E-02			1.61E-03	ug/mL	84.886	% Recovery	
3	LLS	S1004290060		0 0			Glycolate	LIQUID	.1776075	1.3181E-01			9.37E-03	ug/mL	74.214	% Recovery	
3	LLS	S1004290060		0 0			Acetate	LIQUID	.2174075	1.4962E-01			6.04E-03	ug/mL	68.82	% Recovery	
3	LLS	S1004290060		0 0			Formate	LIQUID	.2054675	1.7282E-01			4.67E-03	ug/mL	84.111	% Recovery	
3	LLS	S1004290060		0 0			Chloride	LIQUID	.0432825	4.1710E-02			9.98E-03	ug/mL	96.367	% Recovery	
3	LLS	S1004290060		0 0			Nitrite	LIQUID	.275615	2.5534E-01			0.0192	ug/mL	92.644	% Recovery	
3	LLS	S1004290060		0 0			Sulfate	LIQUID	.33034	3.1531E-01			0.0187	ug/mL	95.45	% Recovery	

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019147

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	LLS	S1004290060		0 0			Oxalate	LIQUID	.26268	2.3317E-01			0.0231	ug/mL	88.766	% Recovery	
3	LLS	S1004290060		0 0			Bromide	LIQUID	.3079525	2.3348E-01			0.058	ug/mL	75.817	% Recovery	
3	LLS	S1004290060		0 0			Nitrate	LIQUID	.2721325	2.3551E-01			0.0208	ug/mL	86.542	% Recovery	
3	LLS	S1004290060		0 0			Phosphate	LIQUID	.2601925	2.3178E-01			0.0167	ug/mL	89.08	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1004290040		0 0	W		Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
4	BLNK-PREP	S1004290040		0 0	W		Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
4	BLNK-PREP	S1004290040		0 0	W		Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
4	BLNK-PREP	S1004290040		0 0	W		Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
4	BLNK-PREP	S1004290040		0 0	W		Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
4	BLNK-PREP	S1004290040		0 0	W		Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
4	BLNK-PREP	S1004290040		0 0	W		Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
4	BLNK-PREP	S1004290040		0 0	W		Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
4	BLNK-PREP	S1004290040		0 0	W		Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
4	BLNK-PREP	S1004290040		0 0	W		Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
4	BLNK-PREP	S1004290040		0 0	W		Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 5																	
5	STD-PREP	S1004290039		0 0	W		Fluoride	LIQUID	.65	6.6432E-01			1.61E-03	ug/mL	102.2	% Recovery	
5	STD-PREP	S1004290039		0 0	W		Glycolate	LIQUID	3.57	3.5075E+00			9.37E-03	ug/mL	98.25	% Recovery	
5	STD-PREP	S1004290039		0 0	W		Acetate	LIQUID	4.37	4.1739E+00			6.04E-03	ug/mL	95.512	% Recovery	
5	STD-PREP	S1004290039		0 0	W		Formate	LIQUID	4.13	4.1105E+00			4.67E-03	ug/mL	99.528	% Recovery	
5	STD-PREP	S1004290039		0 0	W		Chloride	LIQUID	.87	8.7613E-01			9.98E-03	ug/mL	100.7	% Recovery	
5	STD-PREP	S1004290039		0 0	W		Nitrite	LIQUID	5.54	5.7186E+00			0.0192	ug/mL	103.22	% Recovery	
5	STD-PREP	S1004290039		0 0	W		Sulfate	LIQUID	6.64	6.7808E+00			0.0187	ug/mL	102.12	% Recovery	
5	STD-PREP	S1004290039		0 0	W		Oxalate	LIQUID	5.28	5.2929E+00			0.0231	ug/mL	100.24	% Recovery	
5	STD-PREP	S1004290039		0 0	W		Bromide	LIQUID	6.19	6.2669E+00			0.058	ug/mL	101.24	% Recovery	
5	STD-PREP	S1004290039		0 0	W		Nitrate	LIQUID	5.47	5.4506E+00			0.0208	ug/mL	99.646	% Recovery	
5	STD-PREP	S1004290039		0 0	W		Phosphate	LIQUID	5.23	5.2536E+00			0.0167	ug/mL	100.45	% Recovery	
Sample Sequence 6																	
6	SAMPLE	S10V000638		0 0	W		Fluoride	SOLID	N/A	9.3987E-01			0.016493	ug/g			
6	SAMPLE	S10V000638		0 0	W		Glycolate	SOLID	N/A	<9.5984E-02			0.095984	ug/g			U
6	SAMPLE	S10V000638		0 0	W		Acetate	SOLID	N/A	3.0998E-01			0.061873	ug/g			J
6	SAMPLE	S10V000638		0 0	W		Formate	SOLID	N/A	2.9348E-01			0.047839	ug/g			J
6	SAMPLE	S10V000638		0 0	W		Chloride	SOLID	N/A	3.2719E-01			0.10223	ug/g			J
6	SAMPLE	S10V000638		0 0	W		Nitrite	SOLID	N/A	1.7933E+00			0.19668	ug/g			J
6	SAMPLE	S10V000638		0 0	W		Sulfate	SOLID	N/A	3.5923E+00			0.19156	ug/g			
6	SAMPLE	S10V000638		0 0	W		Oxalate	SOLID	N/A	7.0887E-01			0.23663	ug/g			J
6	SAMPLE	S10V000638		0 0	W		Bromide	SOLID	N/A	<5.9414E-01			0.59414	ug/g			U
6	SAMPLE	S10V000638		0 0	W		Nitrate	SOLID	N/A	3.9918E+00			0.21307	ug/g			
6	SAMPLE	S10V000638		0 0	W		Phosphate	SOLID	N/A	1.1315E+00			0.17107	ug/g			J
Sample Sequence 7																	
7	DUP	S1004290041	S10V000638	0 0	W		Fluoride	SOLID	9.3987E-01	8.8798E-01			0.016903	ug/g	5.6777	% RPD	

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LABCORE Completed Batch Report for Batch# 00019147

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	DUP	S1004290041	S10V000638	0 0	W		Glycolate	SOLID	<9.5984E-02	<9.8373E-02			0.098373	ug/g			
7	DUP	S1004290041	S10V000638	0 0	W		Acetate	SOLID	3.0998E-01	3.5066E-01			0.063412	ug/g	12.315	% RPD	
7	DUP	S1004290041	S10V000638	0 0	W		Formate	SOLID	2.9348E-01	3.7564E-01			0.049029	ug/g	24.558	% RPD	
7	DUP	S1004290041	S10V000638	0 0	W		Chloride	SOLID	3.2719E-01	3.3921E-01			0.10478	ug/g	3.6074	% RPD	
7	DUP	S1004290041	S10V000638	0 0	W		Nitrite	SOLID	1.7933E+00	1.6599E+00			0.20157	ug/g	7.7262	% RPD	
7	DUP	S1004290041	S10V000638	0 0	W		Sulfate	SOLID	3.5923E+00	3.0148E+00			0.19633	ug/g	17.481	% RPD	
7	DUP	S1004290041	S10V000638	0 0	W		Oxalate	SOLID	7.0887E-01	5.3627E-01			0.24252	ug/g	27.724	% RPD	
7	DUP	S1004290041	S10V000638	0 0	W		Bromide	SOLID	<5.9414E-01	<6.0892E-01			0.60892	ug/g			
7	DUP	S1004290041	S10V000638	0 0	W		Nitrate	SOLID	3.9918E+00	3.4139E+00			0.21837	ug/g	15.607	% RPD	
7	DUP	S1004290041	S10V000638	0 0	W		Phosphate	SOLID	1.1315E+00	9.4856E-01			0.17533	ug/g	17.590	% RPD	
Sample Sequence 8																	
8	SPK-PREDIG	S1004290042	S10V000638	0 0	W		Fluoride	SOLID	6.5	7.5778E+00			0.0164	ug/g	102.12	% Recovery	
8	SPK-PREDIG	S1004290042	S10V000638	0 0	W		Glycolate	SOLID	35.7	3.5644E+01			0.095449	ug/g	99.843	% Recovery	
8	SPK-PREDIG	S1004290042	S10V000638	0 0	W		Acetate	SOLID	43.7	4.2782E+01			0.061527	ug/g	97.191	% Recovery	
8	SPK-PREDIG	S1004290042	S10V000638	0 0	W		Formate	SOLID	41.3	4.2331E+01			0.047572	ug/g	101.79	% Recovery	
8	SPK-PREDIG	S1004290042	S10V000638	0 0	W		Chloride	SOLID	8.7	9.2720E+00			0.10166	ug/g	102.81	% Recovery	
8	SPK-PREDIG	S1004290042	S10V000638	0 0	W		Nitrite	SOLID	55.4	5.9313E+01			0.19558	ug/g	103.83	% Recovery	
8	SPK-PREDIG	S1004290042	S10V000638	0 0	W		Sulfate	SOLID	66.4	7.2974E+01			0.19049	ug/g	104.49	% Recovery	
8	SPK-PREDIG	S1004290042	S10V000638	0 0	W		Oxalate	SOLID	52.8	5.4302E+01			0.23531	ug/g	101.5	% Recovery	
8	SPK-PREDIG	S1004290042	S10V000638	0 0	W		Bromide	SOLID	61.9	6.3207E+01			0.59082	ug/g	102.11	% Recovery	
8	SPK-PREDIG	S1004290042	S10V000638	0 0	W		Nitrate	SOLID	54.7	6.0623E+01			0.21188	ug/g	103.53	% Recovery	
8	SPK-PREDIG	S1004290042	S10V000638	0 0	W		Phosphate	SOLID	52.3	5.0722E+01			0.17012	ug/g	94.819	% Recovery	
Sample Sequence 9																	
9	SPK-IC	S1004290061	S10V000638	0 0			Fluoride	SOLID	65	7.5237E-01			1.61E-03	ug/g	101.63	% Recovery	
9	SPK-IC	S1004290061	S10V000638	0 0			Glycolate	SOLID	357	3.4548E+00			9.37E-03	ug/g	96.772	% Recovery	
9	SPK-IC	S1004290061	S10V000638	0 0			Acetate	SOLID	437	4.1467E+00			6.04E-03	ug/g	94.197	% Recovery	
9	SPK-IC	S1004290061	S10V000638	0 0			Formate	SOLID	413	4.0895E+00			4.67E-03	ug/g	98.327	% Recovery	
9	SPK-IC	S1004290061	S10V000638	0 0			Chloride	SOLID	87	8.9324E-01			9.98E-03	ug/g	99	% Recovery	
9	SPK-IC	S1004290061	S10V000638	0 0			Nitrite	SOLID	554	5.6550E+00			0.0192	ug/g	98.915	% Recovery	
9	SPK-IC	S1004290061	S10V000638	0 0			Sulfate	SOLID	664	7.0171E+00			0.0187	ug/g	100.4	% Recovery	
9	SPK-IC	S1004290061	S10V000638	0 0			Oxalate	SOLID	528	5.2977E+00			0.0231	ug/g	99.025	% Recovery	
9	SPK-IC	S1004290061	S10V000638	0 0			Bromide	SOLID	619	6.1326E+00			0.058	ug/g	99.073	% Recovery	
9	SPK-IC	S1004290061	S10V000638	0 0			Nitrate	SOLID	547	5.7774E+00			0.0208	ug/g	98.495	% Recovery	
9	SPK-IC	S1004290061	S10V000638	0 0			Phosphate	SOLID	523	5.2809E+00			0.0167	ug/g	98.861	% Recovery	
Sample Sequence 10																	
10	SAMPLE	S10V000656		0 0	W		Fluoride	SOLID	N/A	1.1309E+00			0.016334	ug/g			
10	SAMPLE	S10V000656		0 0	W		Glycolate	SOLID	N/A	<9.5063E-02			0.095063	ug/g			U
10	SAMPLE	S10V000656		0 0	W		Acetate	SOLID	N/A	4.6700E-01			0.061279	ug/g			J
10	SAMPLE	S10V000656		0 0	W		Formate	SOLID	N/A	5.7454E-01			0.047379	ug/g			J
10	SAMPLE	S10V000656		0 0	W		Chloride	SOLID	N/A	6.2537E-01			0.10125	ug/g			
10	SAMPLE	S10V000656		0 0	W		Nitrite	SOLID	N/A	1.2469E+00			0.19479	ug/g			J
10	SAMPLE	S10V000656		0 0	W		Sulfate	SOLID	N/A	4.3381E+00			0.18972	ug/g			

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019147

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
10	SAMPLE	S10V000656		0 0	W		Oxalate	SOLID	N/A	8.7951E-01			0.23436	ug/g			J
10	SAMPLE	S10V000656		0 0	W		Bromide	SOLID	N/A	<5.8844E-01			0.58844	ug/g			U
10	SAMPLE	S10V000656		0 0	W		Nitrate	SOLID	N/A	3.6915E+00			0.21103	ug/g			
10	SAMPLE	S10V000656		0 0	W		Phosphate	SOLID	N/A	1.0032E+00			0.16943	ug/g			J
Sample Sequence 11																	
11	SAMPLE	S10V000665		0 0	W		Fluoride	SOLID	N/A	1.7288E+00			0.016295	ug/g			
11	SAMPLE	S10V000665		0 0	W		Glycolate	SOLID	N/A	<9.4832E-02			0.094832	ug/g			U
11	SAMPLE	S10V000665		0 0	W		Acetate	SOLID	N/A	4.7386E-01			0.06113	ug/g			J
11	SAMPLE	S10V000665		0 0	W		Formate	SOLID	N/A	8.0329E-01			0.047264	ug/g			J
11	SAMPLE	S10V000665		0 0	W		Chloride	SOLID	N/A	9.6442E-01			0.10101	ug/g			
11	SAMPLE	S10V000665		0 0	W		Nitrite	SOLID	N/A	1.6941E+00			0.19432	ug/g			J
11	SAMPLE	S10V000665		0 0	W		Sulfate	SOLID	N/A	1.1712E+01			0.18926	ug/g			
11	SAMPLE	S10V000665		0 0	W		Oxalate	SOLID	N/A	1.4131E+00			0.23379	ug/g			J
11	SAMPLE	S10V000665		0 0	W		Bromide	SOLID	N/A	<5.8701E-01			0.58701	ug/g			U
11	SAMPLE	S10V000665		0 0	W		Nitrate	SOLID	N/A	1.1145E+01			0.21051	ug/g			
11	SAMPLE	S10V000665		0 0	W		Phosphate	SOLID	N/A	1.4451E+00			0.16902	ug/g			J
Sample Sequence 12																	
12	CCV	S1004290062		0 0			Fluoride	LIQUID	.51584	5.2614E-01			1.61E-03	ug/mL	102	% Recovery	
12	CCV	S1004290062		0 0			Glycolate	LIQUID	2.833152	2.7596E+00			9.37E-03	ug/mL	97.403	% Recovery	
12	CCV	S1004290062		0 0			Acetate	LIQUID	3.468032	3.3099E+00			6.04E-03	ug/mL	95.441	% Recovery	
12	CCV	S1004290062		0 0			Formate	LIQUID	3.277568	3.2804E+00			4.67E-03	ug/mL	100.09	% Recovery	
12	CCV	S1004290062		0 0			Chloride	LIQUID	.690432	6.9743E-01			9.98E-03	ug/mL	101.01	% Recovery	
12	CCV	S1004290062		0 0			Nitrite	LIQUID	4.396544	4.4134E+00			0.0192	ug/mL	100.38	% Recovery	
12	CCV	S1004290062		0 0			Sulfate	LIQUID	5.269504	5.3862E+00			0.0187	ug/mL	102.21	% Recovery	
12	CCV	S1004290062		0 0			Oxalate	LIQUID	4.190208	4.2550E+00			0.0231	ug/mL	101.55	% Recovery	
12	CCV	S1004290062		0 0			Bromide	LIQUID	4.912384	4.9071E+00			0.058	ug/mL	99.893	% Recovery	
12	CCV	S1004290062		0 0			Nitrate	LIQUID	4.340992	4.3235E+00			0.0208	ug/mL	99.596	% Recovery	
12	CCV	S1004290062		0 0			Phosphate	LIQUID	4.150528	4.1563E+00			0.0167	ug/mL	100.14	% Recovery	
Sample Sequence 13																	
13	CCB	S1004290063		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
13	CCB	S1004290063		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
13	CCB	S1004290063		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
13	CCB	S1004290063		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
13	CCB	S1004290063		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
13	CCB	S1004290063		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
13	CCB	S1004290063		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
13	CCB	S1004290063		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
13	CCB	S1004290063		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
13	CCB	S1004290063		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
13	CCB	S1004290063		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019147

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019147

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019147

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1004290058	CCV				
2	S1004290059	CCB				
3	S1004290060	LLS				
4	S1004290040	BLNK-PREP				
5	S1004290039	STD-PREP				
6	S10V000638	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
7	S1004290041	DUP	S10V000638			
8	S1004290042	SPK-PREDIG	S10V000638			
9	S1004290061	SPK-IC	S10V000638			
10	S10V000656	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
11	S10V000665	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
12	S1004290062	CCV				
13	S1004290063	CCB				

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LABCORE Completed Batch Report for Batch# 00019446

Analyst: Thorndike, Kathy **Book#:** 15N29E

Instrument: IC-6 (SMALL ORG ACIDS)

Method: IC - ANIONS/SMALL ORG. ACIDS, LA-533-115 Rev/Mod J-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019413, 00019414, 00019419

Batch Comment: IC analysis of anions and small organic acids for C Farm WMC 2010-1 and S-SX Barrier water digestates. bsm

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	CCV	S1005190021		0 0			Fluoride	LIQUID	.51587315	5.2476E-01			1.61E-03	ug/mL	101.72	% Recovery	
1	CCV	S1005190021		0 0			Glycolate	LIQUID	2.83333407	2.7556E+00			9.37E-03	ug/mL	97.258	% Recovery	
1	CCV	S1005190021		0 0			Acetate	LIQUID	3.46825487	3.2951E+00			6.04E-03	ug/mL	95.006	% Recovery	
1	CCV	S1005190021		0 0			Formate	LIQUID	3.27777863	3.2325E+00			4.67E-03	ug/mL	98.618	% Recovery	
1	CCV	S1005190021		0 0			Chloride	LIQUID	.69047637	6.8959E-01			9.98E-03	ug/mL	99.872	% Recovery	
1	CCV	S1005190021		0 0			Nitrite	LIQUID	4.34127097	4.2882E+00			0.0192	ug/mL	98.776	% Recovery	
1	CCV	S1005190021		0 0			Sulfate	LIQUID	5.26984264	5.3558E+00			0.0187	ug/mL	101.63	% Recovery	
1	CCV	S1005190021		0 0			Oxalate	LIQUID	4.26190587	4.2238E+00			0.0231	ug/mL	99.105	% Recovery	
1	CCV	S1005190021		0 0			Bromide	LIQUID	4.91269969	4.8672E+00			0.058	ug/mL	99.074	% Recovery	
1	CCV	S1005190021		0 0			Nitrate	LIQUID	4.34127097	4.2844E+00			0.0208	ug/mL	98.691	% Recovery	
1	CCV	S1005190021		0 0			Phosphate	LIQUID	4.15079473	4.1351E+00			0.0167	ug/mL	99.621	% Recovery	
Sample Sequence 2																	
2	CCB	S1005190020		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
2	CCB	S1005190020		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
2	CCB	S1005190020		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
2	CCB	S1005190020		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
2	CCB	S1005190020		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
2	CCB	S1005190020		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
2	CCB	S1005190020		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
2	CCB	S1005190020		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
2	CCB	S1005190020		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
2	CCB	S1005190020		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
2	CCB	S1005190020		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 3																	
3	LLS	S1005190022		0 0			Fluoride	LIQUID	.03233828	2.6310E-02			1.61E-03	ug/mL	81.359	% Recovery	
3	LLS	S1005190022		0 0			Glycolate	LIQUID	.177611784	1.3092E-01			9.37E-03	ug/mL	73.711	% Recovery	
3	LLS	S1005190022		0 0			Acetate	LIQUID	.217412744	1.5264E-01			6.04E-03	ug/mL	70.207	% Recovery	
3	LLS	S1005190022		0 0			Formate	LIQUID	.205472456	1.7105E-01			4.67E-03	ug/mL	83.247	% Recovery	
3	LLS	S1005190022		0 0			Chloride	LIQUID	.043283544	4.2200E-02			9.98E-03	ug/mL	97.497	% Recovery	
3	LLS	S1005190022		0 0			Nitrite	LIQUID	.272139064	2.3437E-01			0.0192	ug/mL	86.121	% Recovery	
3	LLS	S1005190022		0 0			Sulfate	LIQUID	.330347968	2.9982E-01			0.0187	ug/mL	90.759	% Recovery	

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LABCORE Completed Batch Report for Batch# 00019446

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	LLS	S1005190022		0 0			Oxalate	LIQUID	.267163944	2.3128E-01			0.0231	ug/mL	86.569	% Recovery	
3	LLS	S1005190022		0 0			Bromide	LIQUID	.307959928	2.3024E-01			0.058	ug/mL	74.763	% Recovery	
3	LLS	S1005190022		0 0			Nitrate	LIQUID	.272139064	2.3256E-01			0.0208	ug/mL	85.456	% Recovery	
3	LLS	S1005190022		0 0			Phosphate	LIQUID	.260198776	2.2978E-01			0.0167	ug/mL	88.309	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1005170021		0 0	W		Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
4	BLNK-PREP	S1005170021		0 0	W		Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
4	BLNK-PREP	S1005170021		0 0	W		Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
4	BLNK-PREP	S1005170021		0 0	W		Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
4	BLNK-PREP	S1005170021		0 0	W		Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
4	BLNK-PREP	S1005170021		0 0	W		Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
4	BLNK-PREP	S1005170021		0 0	W		Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
4	BLNK-PREP	S1005170021		0 0	W		Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
4	BLNK-PREP	S1005170021		0 0	W		Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
4	BLNK-PREP	S1005170021		0 0	W		Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
4	BLNK-PREP	S1005170021		0 0	W		Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 5																	
5	STD-PREP	S1005170020		0 0	W		Fluoride	LIQUID	.65	6.9064E-01			1.61E-03	ug/mL	106.25	% Recovery	
5	STD-PREP	S1005170020		0 0	W		Glycolate	LIQUID	3.57	3.6379E+00			9.37E-03	ug/mL	101.9	% Recovery	
5	STD-PREP	S1005170020		0 0	W		Acetate	LIQUID	4.37	4.4434E+00			6.04E-03	ug/mL	101.68	% Recovery	
5	STD-PREP	S1005170020		0 0	W		Formate	LIQUID	4.13	4.3172E+00			4.67E-03	ug/mL	104.53	% Recovery	
5	STD-PREP	S1005170020		0 0	W		Chloride	LIQUID	.87	9.0169E-01			9.98E-03	ug/mL	103.64	% Recovery	
5	STD-PREP	S1005170020		0 0	W		Nitrite	LIQUID	5.47	5.7425E+00			0.0192	ug/mL	104.98	% Recovery	
5	STD-PREP	S1005170020		0 0	W		Sulfate	LIQUID	6.64	7.0612E+00			0.0187	ug/mL	106.34	% Recovery	
5	STD-PREP	S1005170020		0 0	W		Oxalate	LIQUID	5.37	5.5716E+00			0.0231	ug/mL	103.76	% Recovery	
5	STD-PREP	S1005170020		0 0	W		Bromide	LIQUID	6.19	6.5817E+00			0.058	ug/mL	106.33	% Recovery	
5	STD-PREP	S1005170020		0 0	W		Nitrate	LIQUID	5.47	5.7676E+00			0.0208	ug/mL	105.44	% Recovery	
5	STD-PREP	S1005170020		0 0	W		Phosphate	LIQUID	5.23	5.4624E+00			0.0167	ug/mL	104.44	% Recovery	
Sample Sequence 6																	
6	SAMPLE	S10V000674		0 0	W		Fluoride	SOLID	N/A	1.4066E+00			0.016455	ug/g			
6	SAMPLE	S10V000674		0 0	W		Glycolate	SOLID	N/A	<9.5765E-02			0.095765	ug/g			U
6	SAMPLE	S10V000674		0 0	W		Acetate	SOLID	N/A	3.9870E-01			0.061731	ug/g			J
6	SAMPLE	S10V000674		0 0	W		Formate	SOLID	N/A	2.4110E-01			0.047729	ug/g			J
6	SAMPLE	S10V000674		0 0	W		Chloride	SOLID	N/A	3.2572E+00			0.102	ug/g			
6	SAMPLE	S10V000674		0 0	W		Nitrite	SOLID	N/A	1.0399E+00			0.19623	ug/g			J
6	SAMPLE	S10V000674		0 0	W		Sulfate	SOLID	N/A	1.1344E+02			0.19112	ug/g			
6	SAMPLE	S10V000674		0 0	W		Oxalate	SOLID	N/A	<2.3609E-01			0.23609	ug/g			U
6	SAMPLE	S10V000674		0 0	W		Bromide	SOLID	N/A	<5.9278E-01			0.59278	ug/g			U
6	SAMPLE	S10V000674		0 0	W		Nitrate	SOLID	N/A	4.1753E+01			0.21258	ug/g			
6	SAMPLE	S10V000674		0 0	W		Phosphate	SOLID	N/A	2.8075E-01			0.17068	ug/g			J
Sample Sequence 7																	
7	DUP	S1005170022	S10V000674	0 0	W		Fluoride	SOLID	1.4066E+00	1.4058E+00			0.016473	ug/g	0.056891	% RPD	

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LABCORE Completed Batch Report for Batch# 00019446

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	DUP	S1005170022	S10V000674	0 0	W		Glycolate	SOLID	<9.5765E-02	<9.5872E-02			0.095872	ug/g			
7	DUP	S1005170022	S10V000674	0 0	W		Acetate	SOLID	3.9870E-01	4.2964E-01			0.0618	ug/g	7.4704	% RPD	
7	DUP	S1005170022	S10V000674	0 0	W		Formate	SOLID	2.4110E-01	2.4035E-01			0.047783	ug/g	0.31156	% RPD	
7	DUP	S1005170022	S10V000674	0 0	W		Chloride	SOLID	3.2572E+00	3.2895E+00			0.10211	ug/g	0.98676	% RPD	
7	DUP	S1005170022	S10V000674	0 0	W		Nitrite	SOLID	1.0399E+00	1.0267E+00			0.19645	ug/g	1.2775	% RPD	
7	DUP	S1005170022	S10V000674	0 0	W		Sulfate	SOLID	1.1344E+02	1.1440E+02			0.19134	ug/g	0.84270	% RPD	
7	DUP	S1005170022	S10V000674	0 0	W		Oxalate	SOLID	<2.3609E-01	<2.3636E-01			0.23636	ug/g			
7	DUP	S1005170022	S10V000674	0 0	W		Bromide	SOLID	<5.9278E-01	<5.9345E-01			0.59345	ug/g			
7	DUP	S1005170022	S10V000674	0 0	W		Nitrate	SOLID	4.1753E+01	4.2097E+01			0.21282	ug/g	0.82051	% RPD	
7	DUP	S1005170022	S10V000674	0 0	W		Phosphate	SOLID	2.8075E-01	2.8977E-01			0.17087	ug/g	3.1620	% RPD	
Sample Sequence 8																	
8	SPK-IC	S1005190023	S10V000674	0 0			Fluoride	SOLID	64.35643565	8.0652E-01			1.61E-03	ug/g	103.94	% Recovery	
8	SPK-IC	S1005190023	S10V000674	0 0			Glycolate	SOLID	353.46534657	3.4980E+00			9.37E-03	ug/g	98.964	% Recovery	
8	SPK-IC	S1005190023	S10V000674	0 0			Acetate	SOLID	432.67326737	4.2045E+00			6.04E-03	ug/g	96.274	% Recovery	
8	SPK-IC	S1005190023	S10V000674	0 0			Formate	SOLID	408.91089113	4.1191E+00			4.67E-03	ug/g	100.16	% Recovery	
8	SPK-IC	S1005190023	S10V000674	0 0			Chloride	SOLID	86.13861387	1.2026E+00			9.98E-03	ug/g	102.61	% Recovery	
8	SPK-IC	S1005190023	S10V000674	0 0			Nitrite	SOLID	541.58415847	5.4308E+00			0.0192	ug/g	98.397	% Recovery	
8	SPK-IC	S1005190023	S10V000674	0 0			Sulfate	SOLID	657.42574264	1.7925E+01			0.0187	ug/g	103.82	% Recovery	
8	SPK-IC	S1005190023	S10V000674	0 0			Oxalate	SOLID	531.68316837	5.4267E+00			0.0231	ug/g	102.07	% Recovery	
8	SPK-IC	S1005190023	S10V000674	0 0			Bromide	SOLID	612.87128719	6.1459E+00			0.058	ug/g	100.28	% Recovery	
8	SPK-IC	S1005190023	S10V000674	0 0			Nitrate	SOLID	541.58415847	9.5975E+00			0.0208	ug/g	101.78	% Recovery	
8	SPK-IC	S1005190023	S10V000674	0 0			Phosphate	SOLID	517.82178223	5.2770E+00			0.0167	ug/g	101.38	% Recovery	
Sample Sequence 9																	
9	SAMPLE	S10V000683		0 0	W		Fluoride	SOLID	N/A	7.7984E-01			0.016312	ug/g			
9	SAMPLE	S10V000683		0 0	W		Glycolate	SOLID	N/A	<9.4934E-02			0.094934	ug/g			U
9	SAMPLE	S10V000683		0 0	W		Acetate	SOLID	N/A	3.2705E-01			0.061196	ug/g			J
9	SAMPLE	S10V000683		0 0	W		Formate	SOLID	N/A	2.8825E-01			0.047315	ug/g			J
9	SAMPLE	S10V000683		0 0	W		Chloride	SOLID	N/A	8.4543E+00			0.10111	ug/g			
9	SAMPLE	S10V000683		0 0	W		Nitrite	SOLID	N/A	9.8227E-01			0.19453	ug/g			J
9	SAMPLE	S10V000683		0 0	W		Sulfate	SOLID	N/A	6.6478E+01			0.18946	ug/g			
9	SAMPLE	S10V000683		0 0	W		Oxalate	SOLID	N/A	8.1155E-01			0.23404	ug/g			J
9	SAMPLE	S10V000683		0 0	W		Bromide	SOLID	N/A	<5.8764E-01			0.58764	ug/g			U
9	SAMPLE	S10V000683		0 0	W		Nitrate	SOLID	N/A	6.6826E+00			0.21074	ug/g			
9	SAMPLE	S10V000683		0 0	W		Phosphate	SOLID	N/A	4.1196E-01			0.1692	ug/g			J
Sample Sequence 10																	
10	SAMPLE	S10V000692		0 0	W		Fluoride	SOLID	N/A	2.3822E+00			0.01634	ug/g			
10	SAMPLE	S10V000692		0 0	W		Glycolate	SOLID	N/A	6.6344E-01			0.095096	ug/g			J
10	SAMPLE	S10V000692		0 0	W		Acetate	SOLID	N/A	4.2769E+00			0.0613	ug/g			
10	SAMPLE	S10V000692		0 0	W		Formate	SOLID	N/A	7.0596E+00			0.047396	ug/g			
10	SAMPLE	S10V000692		0 0	W		Chloride	SOLID	N/A	6.4272E+00			0.10129	ug/g			
10	SAMPLE	S10V000692		0 0	W		Nitrite	SOLID	N/A	2.4696E+00			0.19486	ug/g			
10	SAMPLE	S10V000692		0 0	W		Sulfate	SOLID	N/A	1.1632E+02			0.18979	ug/g			

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019446

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
10	SAMPLE	S10V000692		0 0	W		Oxalate	SOLID	N/A	1.4327E+01			0.23444	ug/g			
10	SAMPLE	S10V000692		0 0	W		Bromide	SOLID	N/A	<5.8864E-01			0.58864	ug/g			U
10	SAMPLE	S10V000692		0 0	W		Nitrate	SOLID	N/A	1.2060E+01			0.2111	ug/g			
10	SAMPLE	S10V000692		0 0	W		Phosphate	SOLID	N/A	1.2107E+00			0.16949	ug/g			J
Sample Sequence 11																	
11	CCV	S1005190025		0 0			Fluoride	LIQUID	.51587315	5.2704E-01			1.61E-03	ug/mL	102.16	% Recovery	
11	CCV	S1005190025		0 0			Glycolate	LIQUID	2.83333407	2.7823E+00			9.37E-03	ug/mL	98.198	% Recovery	
11	CCV	S1005190025		0 0			Acetate	LIQUID	3.46825487	3.2969E+00			6.04E-03	ug/mL	95.06	% Recovery	
11	CCV	S1005190025		0 0			Formate	LIQUID	3.27777863	3.2593E+00			4.67E-03	ug/mL	99.435	% Recovery	
11	CCV	S1005190025		0 0			Chloride	LIQUID	.69047637	6.9340E-01			9.98E-03	ug/mL	100.42	% Recovery	
11	CCV	S1005190025		0 0			Nitrite	LIQUID	4.34127097	4.2593E+00			0.0192	ug/mL	98.112	% Recovery	
11	CCV	S1005190025		0 0			Sulfate	LIQUID	5.26984264	5.3827E+00			0.0187	ug/mL	102.14	% Recovery	
11	CCV	S1005190025		0 0			Oxalate	LIQUID	4.26190587	4.2389E+00			0.0231	ug/mL	99.459	% Recovery	
11	CCV	S1005190025		0 0			Bromide	LIQUID	4.91269969	4.8966E+00			0.058	ug/mL	99.673	% Recovery	
11	CCV	S1005190025		0 0			Nitrate	LIQUID	4.34127097	4.3124E+00			0.0208	ug/mL	99.334	% Recovery	
11	CCV	S1005190025		0 0			Phosphate	LIQUID	4.15079473	4.1604E+00			0.0167	ug/mL	100.23	% Recovery	
Sample Sequence 12																	
12	CCB	S1005190024		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
12	CCB	S1005190024		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
12	CCB	S1005190024		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
12	CCB	S1005190024		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
12	CCB	S1005190024		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
12	CCB	S1005190024		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
12	CCB	S1005190024		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
12	CCB	S1005190024		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
12	CCB	S1005190024		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
12	CCB	S1005190024		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
12	CCB	S1005190024		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 13																	
13	BLNK-PREP	S1005170017		0 0	W		Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
13	BLNK-PREP	S1005170017		0 0	W		Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
13	BLNK-PREP	S1005170017		0 0	W		Acetate	LIQUID		1.8310E-02			6.04E-03	ug/mL			
13	BLNK-PREP	S1005170017		0 0	W		Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
13	BLNK-PREP	S1005170017		0 0	W		Chloride	LIQUID		1.2200E-02			9.98E-03	ug/mL			
13	BLNK-PREP	S1005170017		0 0	W		Nitrite	LIQUID		1.0906E-01			0.0192	ug/mL			
13	BLNK-PREP	S1005170017		0 0	W		Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
13	BLNK-PREP	S1005170017		0 0	W		Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
13	BLNK-PREP	S1005170017		0 0	W		Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
13	BLNK-PREP	S1005170017		0 0	W		Nitrate	LIQUID		8.9420E-02			0.0208	ug/mL			
13	BLNK-PREP	S1005170017		0 0	W		Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 15																	
15	DUP	S1005170018	S10V000793	0 0	W		Fluoride	SOLID					0.015995	ug/g	24.946	% RPD	

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LABCORE Completed Batch Report for Batch# 00019446

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
15	DUP	S1005170018	S10V000793	0 0	W		Glycolate	SOLID					0.093087	ug/g			
15	DUP	S1005170018	S10V000793	0 0	W		Acetate	SOLID					0.060005	ug/g	21.477	% RPD	
15	DUP	S1005170018	S10V000793	0 0	W		Formate	SOLID					0.046395	ug/g	5.3770	% RPD	
15	DUP	S1005170018	S10V000793	0 0	W		Chloride	SOLID					0.099148	ug/g	0.76659	% RPD	
15	DUP	S1005170018	S10V000793	0 0	W		Nitrite	SOLID					0.19074	ug/g	86.063	% RPD	
15	DUP	S1005170018	S10V000793	0 0	W		Sulfate	SOLID					0.18578	ug/g	14.965	% RPD	
15	DUP	S1005170018	S10V000793	0 0	W		Oxalate	SOLID					0.22949	ug/g	7.4845	% RPD	
15	DUP	S1005170018	S10V000793	0 0	W		Bromide	SOLID					0.57621	ug/g			
15	DUP	S1005170018	S10V000793	0 0	W		Nitrate	SOLID					0.20664	ug/g	3.2394	% RPD	
15	DUP	S1005170018	S10V000793	0 0	W		Phosphate	SOLID					0.16591	ug/g	13.813	% RPD	
Sample Sequence 16																	
16	SPK-IC	S1005190026	S10V000793	0 0			Fluoride	SOLID					1.61E-03	ug/g	95.886	% Recovery	
16	SPK-IC	S1005190026	S10V000793	0 0			Glycolate	SOLID					9.37E-03	ug/g	91.257	% Recovery	
16	SPK-IC	S1005190026	S10V000793	0 0			Acetate	SOLID					6.04E-03	ug/g	89.667	% Recovery	
16	SPK-IC	S1005190026	S10V000793	0 0			Formate	SOLID					4.67E-03	ug/g	92.513	% Recovery	
16	SPK-IC	S1005190026	S10V000793	0 0			Chloride	SOLID					9.98E-03	ug/g	93.435	% Recovery	
16	SPK-IC	S1005190026	S10V000793	0 0			Nitrite	SOLID					0.0192	ug/g	91.321	% Recovery	
16	SPK-IC	S1005190026	S10V000793	0 0			Sulfate	SOLID					0.0187	ug/g	93.568	% Recovery	
16	SPK-IC	S1005190026	S10V000793	0 0			Oxalate	SOLID					0.0231	ug/g	92.233	% Recovery	
16	SPK-IC	S1005190026	S10V000793	0 0			Bromide	SOLID					0.058	ug/g	92.621	% Recovery	
16	SPK-IC	S1005190026	S10V000793	0 0			Nitrate	SOLID					0.0208	ug/g	92.621	% Recovery	
16	SPK-IC	S1005190026	S10V000793	0 0			Phosphate	SOLID					0.0167	ug/g	93.171	% Recovery	
Sample Sequence 18																	
18	BLNK-PREP	S1005170025		0 0	WV		Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
18	BLNK-PREP	S1005170025		0 0	WV		Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
18	BLNK-PREP	S1005170025		0 0	WV		Acetate	LIQUID		1.2400E-02			6.04E-03	ug/mL			
18	BLNK-PREP	S1005170025		0 0	WV		Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
18	BLNK-PREP	S1005170025		0 0	WV		Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
18	BLNK-PREP	S1005170025		0 0	WV		Nitrite	LIQUID		2.5740E-02			0.0192	ug/mL			
18	BLNK-PREP	S1005170025		0 0	WV		Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
18	BLNK-PREP	S1005170025		0 0	WV		Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
18	BLNK-PREP	S1005170025		0 0	WV		Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
18	BLNK-PREP	S1005170025		0 0	WV		Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
18	BLNK-PREP	S1005170025		0 0	WV		Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 20																	
20	DUP	S1005170026	S10V000787	0 0	WV		Fluoride	SOLID					1.62E-03	ug/g			
20	DUP	S1005170026	S10V000787	0 0	WV		Glycolate	SOLID					9.42E-03	ug/g			
20	DUP	S1005170026	S10V000787	0 0	WV		Acetate	SOLID					6.07E-03	ug/g			
20	DUP	S1005170026	S10V000787	0 0	WV		Formate	SOLID					4.69E-03	ug/g			
20	DUP	S1005170026	S10V000787	0 0	WV		Chloride	SOLID					0.010029	ug/g			
20	DUP	S1005170026	S10V000787	0 0	WV		Nitrite	SOLID					0.019294	ug/g			
20	DUP	S1005170026	S10V000787	0 0	WV		Sulfate	SOLID					0.018792	ug/g			

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LABCORE Completed Batch Report for Batch# 00019446

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
20	DUP	S1005170026	S10V000787	0 0	WV		Oxalate	SOLID					0.023213	ug/g			
20	DUP	S1005170026	S10V000787	0 0	WV		Bromide	SOLID					0.058285	ug/g			
20	DUP	S1005170026	S10V000787	0 0	WV		Nitrate	SOLID					0.020902	ug/g	11.549	% RPD	
20	DUP	S1005170026	S10V000787	0 0	WV		Phosphate	SOLID					0.016782	ug/g			
Sample Sequence 21																	
21	CCV	S1005190028		0 0			Fluoride	LIQUID	.51587315	5.2950E-01			1.61E-03	ug/mL	102.64	% Recovery	
21	CCV	S1005190028		0 0			Glycolate	LIQUID	2.83333407	2.7860E+00			9.37E-03	ug/mL	98.328	% Recovery	
21	CCV	S1005190028		0 0			Acetate	LIQUID	3.46825487	3.3245E+00			6.04E-03	ug/mL	95.856	% Recovery	
21	CCV	S1005190028		0 0			Formate	LIQUID	3.27777863	3.2602E+00			4.67E-03	ug/mL	99.464	% Recovery	
21	CCV	S1005190028		0 0			Chloride	LIQUID	.69047637	6.9548E-01			9.98E-03	ug/mL	100.72	% Recovery	
21	CCV	S1005190028		0 0			Nitrite	LIQUID	4.34127097	4.3001E+00			0.0192	ug/mL	99.051	% Recovery	
21	CCV	S1005190028		0 0			Sulfate	LIQUID	5.26984264	5.4172E+00			0.0187	ug/mL	102.8	% Recovery	
21	CCV	S1005190028		0 0			Oxalate	LIQUID	4.26190587	4.2742E+00			0.0231	ug/mL	100.29	% Recovery	
21	CCV	S1005190028		0 0			Bromide	LIQUID	4.91269969	5.0140E+00			0.058	ug/mL	102.06	% Recovery	
21	CCV	S1005190028		0 0			Nitrate	LIQUID	4.34127097	4.3838E+00			0.0208	ug/mL	100.98	% Recovery	
21	CCV	S1005190028		0 0			Phosphate	LIQUID	4.15079473	4.1609E+00			0.0167	ug/mL	100.24	% Recovery	
Sample Sequence 22																	
22	CCB	S1005190027		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
22	CCB	S1005190027		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
22	CCB	S1005190027		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
22	CCB	S1005190027		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
22	CCB	S1005190027		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
22	CCB	S1005190027		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
22	CCB	S1005190027		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
22	CCB	S1005190027		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
22	CCB	S1005190027		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
22	CCB	S1005190027		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
22	CCB	S1005190027		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

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LABCORE Completed Batch Report for Batch# 00019446

Final Page for Batch# 00019446

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00019446

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005190021	CCV				
2	S1005190020	CCB				
3	S1005190022	LLS				
4	S1005170021	BLNK-PREP				
5	S1005170020	STD-PREP				
6	S10V000674	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
7	S1005170022	DUP	S10V000674			
8	S1005190023	SPK-IC	S10V000674			
9	S10V000683	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
10	S10V000692	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
11	S1005190025	CCV				
12	S1005190024	CCB				
13	S1005170017	BLNK-PREP				
15	S1005170018	DUP	S10V000793			
16	S1005190026	SPK-IC	S10V000793			
18	S1005170025	BLNK-PREP				
20	S1005170026	DUP	S10V000787			
21	S1005190028	CCV				
22	S1005190027	CCB				

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LABCORE Completed Batch Report for Batch# 00022897

Analyst: Mull, Bryanna **Book#:** 37N29B

Instrument: IC-6 (SMALL ORG ACIDS)

Method: IC - ANIONS/SMALL ORG. ACIDS, LA-533-115 Rev/Mod J-0

Specification: C Farm WMC 2010-1

Prep Batch: 00022879

Batch Comment:

IC determination of anions/small organic acids for C Farm WMC 2010-1 and C Farm WMC 2010-2 water digestates. bsm

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	CCV	S1010060141		0 0			Fluoride	LIQUID	.6	6.1119E-01			1.61E-03	ug/mL	101.86	% Recovery	
1	CCV	S1010060141		0 0			Glycolate	LIQUID	3.73	3.7698E+00			9.37E-03	ug/mL	101.07	% Recovery	
1	CCV	S1010060141		0 0			Acetate	LIQUID	4.53	4.3968E+00			6.04E-03	ug/mL	97.06	% Recovery	
1	CCV	S1010060141		0 0			Formate	LIQUID	4.39	4.4526E+00			4.67E-03	ug/mL	101.43	% Recovery	
1	CCV	S1010060141		0 0			Chloride	LIQUID	.849	8.4458E-01			9.98E-03	ug/mL	99.479	% Recovery	
1	CCV	S1010060141		0 0			Nitrite	LIQUID	5.5	5.4524E+00			0.0192	ug/mL	99.135	% Recovery	
1	CCV	S1010060141		0 0			Sulfate	LIQUID	6.54	6.6308E+00			0.0187	ug/mL	101.39	% Recovery	
1	CCV	S1010060141		0 0			Oxalate	LIQUID	5.29	5.3080E+00			0.0231	ug/mL	100.34	% Recovery	
1	CCV	S1010060141		0 0			Bromide	LIQUID	6.09	6.0951E+00			0.058	ug/mL	100.08	% Recovery	
1	CCV	S1010060141		0 0			Nitrate	LIQUID	5.54	5.5236E+00			0.0208	ug/mL	99.705	% Recovery	
1	CCV	S1010060141		0 0			Phosphate	LIQUID	5.52	5.5234E+00			0.0167	ug/mL	100.06	% Recovery	
Sample Sequence 2																	
2	CCB	S1010060142		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
2	CCB	S1010060142		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
2	CCB	S1010060142		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
2	CCB	S1010060142		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
2	CCB	S1010060142		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
2	CCB	S1010060142		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
2	CCB	S1010060142		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
2	CCB	S1010060142		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
2	CCB	S1010060142		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
2	CCB	S1010060142		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
2	CCB	S1010060142		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 3																	
3	LLS	S1010060143		0 0			Fluoride	LIQUID	.03	2.4600E-02			1.61E-03	ug/mL	82	% Recovery	
3	LLS	S1010060143		0 0			Glycolate	LIQUID	.1865	1.4703E-01			9.37E-03	ug/mL	78.836	% Recovery	
3	LLS	S1010060143		0 0			Acetate	LIQUID	.2265	1.7573E-01			6.04E-03	ug/mL	77.585	% Recovery	
3	LLS	S1010060143		0 0			Formate	LIQUID	.2195	1.8859E-01			4.67E-03	ug/mL	85.918	% Recovery	
3	LLS	S1010060143		0 0			Chloride	LIQUID	.04245	3.6180E-02			9.98E-03	ug/mL	85.23	% Recovery	
3	LLS	S1010060143		0 0			Nitrite	LIQUID	.275	2.4956E-01			0.0192	ug/mL	90.749	% Recovery	
3	LLS	S1010060143		0 0			Sulfate	LIQUID	.327	3.0607E-01			0.0187	ug/mL	93.599	% Recovery	
3	LLS	S1010060143		0 0			Oxalate	LIQUID	.2645	2.4138E-01			0.0231	ug/mL	91.259	% Recovery	

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LABCORE Completed Batch Report for Batch# 00022897

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
3	LLS	S1010060143		0 0			Bromide	LIQUID	.3045	2.5634E-01			0.058	ug/mL	84.184	% Recovery	
3	LLS	S1010060143		0 0			Nitrate	LIQUID	.277	2.6820E-01			0.0208	ug/mL	96.823	% Recovery	
3	LLS	S1010060143		0 0			Phosphate	LIQUID	.276	2.4831E-01			0.0167	ug/mL	89.967	% Recovery	
Sample Sequence 4																	
4	BLNK-PREP	S1010060039		0 0	W		Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
4	BLNK-PREP	S1010060039		0 0	W		Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
4	BLNK-PREP	S1010060039		0 0	W		Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
4	BLNK-PREP	S1010060039		0 0	W		Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
4	BLNK-PREP	S1010060039		0 0	W		Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
4	BLNK-PREP	S1010060039		0 0	W		Nitrite	LIQUID		4.4880E-02			0.0192	ug/mL			
4	BLNK-PREP	S1010060039		0 0	W		Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
4	BLNK-PREP	S1010060039		0 0	W		Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
4	BLNK-PREP	S1010060039		0 0	W		Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
4	BLNK-PREP	S1010060039		0 0	W		Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
4	BLNK-PREP	S1010060039		0 0	W		Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 5																	
5	STD-PREP	S1010060038		0 0	W		Fluoride	LIQUID	60	6.1592E+01			0.161	ug/mL	102.65	% Recovery	
5	STD-PREP	S1010060038		0 0	W		Glycolate	LIQUID	373	3.7616E+02			0.937	ug/mL	100.85	% Recovery	
5	STD-PREP	S1010060038		0 0	W		Acetate	LIQUID	453	4.4778E+02			0.604	ug/mL	98.848	% Recovery	
5	STD-PREP	S1010060038		0 0	W		Formate	LIQUID	439	4.4703E+02			0.467	ug/mL	101.83	% Recovery	
5	STD-PREP	S1010060038		0 0	W		Chloride	LIQUID	84.9	8.5307E+01			0.998	ug/mL	100.48	% Recovery	
5	STD-PREP	S1010060038		0 0	W		Nitrite	LIQUID	550	5.5268E+02			1.92	ug/mL	100.49	% Recovery	
5	STD-PREP	S1010060038		0 0	W		Sulfate	LIQUID	654	6.6729E+02			1.87	ug/mL	102.03	% Recovery	
5	STD-PREP	S1010060038		0 0	W		Oxalate	LIQUID	529	5.3656E+02			2.31	ug/mL	101.43	% Recovery	
5	STD-PREP	S1010060038		0 0	W		Bromide	LIQUID	609	6.1237E+02			5.8	ug/mL	100.55	% Recovery	
5	STD-PREP	S1010060038		0 0	W		Nitrate	LIQUID	554	5.5916E+02			2.08	ug/mL	100.93	% Recovery	
5	STD-PREP	S1010060038		0 0	W		Phosphate	LIQUID	552	5.5564E+02			1.67	ug/mL	100.66	% Recovery	
Sample Sequence 6																	
6	CCV	S1010060145		0 0			Fluoride	LIQUID	.6	6.1333E-01			1.61E-03	ug/mL	102.22	% Recovery	
6	CCV	S1010060145		0 0			Glycolate	LIQUID	3.73	3.7903E+00			9.37E-03	ug/mL	101.62	% Recovery	
6	CCV	S1010060145		0 0			Acetate	LIQUID	4.53	4.4158E+00			6.04E-03	ug/mL	97.48	% Recovery	
6	CCV	S1010060145		0 0			Formate	LIQUID	4.39	4.4747E+00			4.67E-03	ug/mL	101.93	% Recovery	
6	CCV	S1010060145		0 0			Chloride	LIQUID	.849	8.4894E-01			9.98E-03	ug/mL	99.993	% Recovery	
6	CCV	S1010060145		0 0			Nitrite	LIQUID	5.5	5.3928E+00			0.0192	ug/mL	98.051	% Recovery	
6	CCV	S1010060145		0 0			Sulfate	LIQUID	6.54	6.6766E+00			0.0187	ug/mL	102.09	% Recovery	
6	CCV	S1010060145		0 0			Oxalate	LIQUID	5.29	5.2737E+00			0.0231	ug/mL	99.693	% Recovery	
6	CCV	S1010060145		0 0			Bromide	LIQUID	6.09	6.2105E+00			0.058	ug/mL	101.98	% Recovery	
6	CCV	S1010060145		0 0			Nitrate	LIQUID	5.54	5.5747E+00			0.0208	ug/mL	100.63	% Recovery	
6	CCV	S1010060145		0 0			Phosphate	LIQUID	5.52	5.5394E+00			0.0167	ug/mL	100.35	% Recovery	
Sample Sequence 7																	
7	CCB	S1010060146		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
7	CCB	S1010060146		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
7	CCB	S1010060146		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			

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LABCORE Completed Batch Report for Batch# 00022897

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	CCB	S1010060146		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
7	CCB	S1010060146		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
7	CCB	S1010060146		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
7	CCB	S1010060146		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
7	CCB	S1010060146		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
7	CCB	S1010060146		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
7	CCB	S1010060146		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
7	CCB	S1010060146		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 8																	
8	SAMPLE	S10V000087		0 1	W		Fluoride	SOLID	N/A	8.1234E-01			0.015868	ug/g			
8	SAMPLE	S10V000087		0 1	W		Glycolate	SOLID	N/A	<9.2352E-02			0.092352	ug/g			U
8	SAMPLE	S10V000087		0 1	W		Acetate	SOLID	N/A	1.3720E-01			0.059531	ug/g			J
8	SAMPLE	S10V000087		0 1	W		Formate	SOLID	N/A	4.1879E-01			0.046028	ug/g			J
8	SAMPLE	S10V000087		0 1	W		Chloride	SOLID	N/A	2.8631E+00			0.098364	ug/g			
8	SAMPLE	S10V000087		0 1	W		Nitrite	SOLID	N/A	5.1626E-01			0.18924	ug/g			BJ
8	SAMPLE	S10V000087		0 1	W		Sulfate	SOLID	N/A	3.1579E+01			0.18431	ug/g			
8	SAMPLE	S10V000087		0 1	W		Oxalate	SOLID	N/A	1.2296E+00			0.22768	ug/g			J
8	SAMPLE	S10V000087		0 1	W		Bromide	SOLID	N/A	<5.7165E-01			0.57165	ug/g			U
8	SAMPLE	S10V000087		0 1	W		Nitrate	SOLID	N/A	5.1470E+00			0.20501	ug/g			
8	SAMPLE	S10V000087		0 1	W		Phosphate	SOLID	N/A	2.1348E-01			0.1646	ug/g			J
Sample Sequence 9																	
9	SAMPLE	S10V000419		0 1	W		Fluoride	SOLID	N/A	1.0413E+00			0.015974	ug/g			
9	SAMPLE	S10V000419		0 1	W		Glycolate	SOLID	N/A	<9.2969E-02			0.092969	ug/g			U
9	SAMPLE	S10V000419		0 1	W		Acetate	SOLID	N/A	1.6262E-01			0.059929	ug/g			J
9	SAMPLE	S10V000419		0 1	W		Formate	SOLID	N/A	5.6367E-01			0.046336	ug/g			J
9	SAMPLE	S10V000419		0 1	W		Chloride	SOLID	N/A	1.2253E+00			0.099022	ug/g			
9	SAMPLE	S10V000419		0 1	W		Nitrite	SOLID	N/A	1.4001E+00			0.1905	ug/g			BJ
9	SAMPLE	S10V000419		0 1	W		Sulfate	SOLID	N/A	2.7560E+00			0.18554	ug/g			J
9	SAMPLE	S10V000419		0 1	W		Oxalate	SOLID	N/A	4.7249E-01			0.2292	ug/g			J
9	SAMPLE	S10V000419		0 1	W		Bromide	SOLID	N/A	<5.7548E-01			0.57548	ug/g			U
9	SAMPLE	S10V000419		0 1	W		Nitrate	SOLID	N/A	4.0776E+00			0.20638	ug/g			
9	SAMPLE	S10V000419		0 1	W		Phosphate	SOLID	N/A	5.5236E-01			0.1657	ug/g			J
Sample Sequence 10																	
10	SAMPLE	S10V000577		0 1	W		Fluoride	SOLID	N/A	1.3603E+00			0.016084	ug/g			
10	SAMPLE	S10V000577		0 1	W		Glycolate	SOLID	N/A	<9.3608E-02			0.093608	ug/g			U
10	SAMPLE	S10V000577		0 1	W		Acetate	SOLID	N/A	<6.0341E-02			0.060341	ug/g			U
10	SAMPLE	S10V000577		0 1	W		Formate	SOLID	N/A	3.1120E-01			0.046654	ug/g			J
10	SAMPLE	S10V000577		0 1	W		Chloride	SOLID	N/A	4.1739E-01			0.099702	ug/g			J
10	SAMPLE	S10V000577		0 1	W		Nitrite	SOLID	N/A	6.4337E-01			0.19181	ug/g			BJ
10	SAMPLE	S10V000577		0 1	W		Sulfate	SOLID	N/A	1.9955E+00			0.18682	ug/g			J
10	SAMPLE	S10V000577		0 1	W		Oxalate	SOLID	N/A	4.0500E-01			0.23077	ug/g			J
10	SAMPLE	S10V000577		0 1	W		Bromide	SOLID	N/A	<5.7943E-01			0.57943	ug/g			U
10	SAMPLE	S10V000577		0 1	W		Nitrate	SOLID	N/A	2.0740E+00			0.2078	ug/g			J

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Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
10	SAMPLE	S10V000577		0 1	W		Phosphate	SOLID	N/A	5.1200E-01			0.16684	ug/g			J
Sample Sequence 11																	
11	SAMPLE	S09V001617		0 1	W		Fluoride	SOLID	N/A	6.8839E-01			0.016028	ug/g			
11	SAMPLE	S09V001617		0 1	W		Glycolate	SOLID	N/A	<9.3278E-02			0.093278	ug/g			U
11	SAMPLE	S09V001617		0 1	W		Acetate	SOLID	N/A	1.0771E-01			0.060128	ug/g			J
11	SAMPLE	S09V001617		0 1	W		Formate	SOLID	N/A	4.7376E-01			0.04649	ug/g			J
11	SAMPLE	S09V001617		0 1	W		Chloride	SOLID	N/A	4.4499E-01			0.099351	ug/g			J
11	SAMPLE	S09V001617		0 1	W		Nitrite	SOLID	N/A	2.3373E+00			0.19114	ug/g			BJ
11	SAMPLE	S09V001617		0 1	W		Sulfate	SOLID	N/A	3.1291E+00			0.18616	ug/g			J
11	SAMPLE	S09V001617		0 1	W		Oxalate	SOLID	N/A	3.9133E-01			0.22996	ug/g			J
11	SAMPLE	S09V001617		0 1	W		Bromide	SOLID	N/A	<5.7739E-01			0.57739	ug/g			U
11	SAMPLE	S09V001617		0 1	W		Nitrate	SOLID	N/A	4.6686E+00			0.20706	ug/g			
11	SAMPLE	S09V001617		0 1	W		Phosphate	SOLID	N/A	2.0120E+00			0.16625	ug/g			J
Sample Sequence 12																	
12	DUP	S1010060040	S09V001617	0 0	W		Fluoride	SOLID	6.8839E-01	6.0271E-01			0.016082	ug/g	13.272	% RPD	
12	DUP	S1010060040	S09V001617	0 0	W		Glycolate	SOLID	<9.3278E-02	<9.3593E-02			0.093593	ug/g			
12	DUP	S1010060040	S09V001617	0 0	W		Acetate	SOLID	1.0771E-01	7.8081E-01			0.060331	ug/g	151.51	% RPD	
12	DUP	S1010060040	S09V001617	0 0	W		Formate	SOLID	4.7376E-01	4.5888E-01			0.046647	ug/g	3.1906	% RPD	
12	DUP	S1010060040	S09V001617	0 0	W		Chloride	SOLID	4.4499E-01	4.0274E-01			0.099686	ug/g	9.9675	% RPD	
12	DUP	S1010060040	S09V001617	0 0	W		Nitrite	SOLID	2.3373E+00	3.5659E-01			0.19178	ug/g	147.05	% RPD	
12	DUP	S1010060040	S09V001617	0 0	W		Sulfate	SOLID	3.1291E+00	2.9180E+00			0.18679	ug/g	6.9805	% RPD	
12	DUP	S1010060040	S09V001617	0 0	W		Oxalate	SOLID	3.9133E-01	4.5248E-01			0.23074	ug/g	14.493	% RPD	
12	DUP	S1010060040	S09V001617	0 0	W		Bromide	SOLID	<5.7739E-01	<5.7934E-01			0.57934	ug/g			
12	DUP	S1010060040	S09V001617	0 0	W		Nitrate	SOLID	4.6686E+00	3.9830E+00			0.20776	ug/g	15.849	% RPD	
12	DUP	S1010060040	S09V001617	0 0	W		Phosphate	SOLID	2.0120E+00	1.9812E+00			0.16681	ug/g	1.5429	% RPD	
Sample Sequence 13																	
13	SPK-PREDIG	S1010060041	S09V001617	0 0	W		Fluoride	SOLID	6.10548	6.5015E+00			0.015822	ug/g	95.211	% Recovery	
13	SPK-PREDIG	S1010060041	S09V001617	0 0	W		Glycolate	SOLID	37.955734	3.6500E+01			0.092081	ug/g	96.166	% Recovery	
13	SPK-PREDIG	S1010060041	S09V001617	0 0	W		Acetate	SOLID	46.096374	4.2694E+01			0.059357	ug/g	92.385	% Recovery	
13	SPK-PREDIG	S1010060041	S09V001617	0 0	W		Formate	SOLID	44.671762	4.3637E+01			0.045893	ug/g	96.624	% Recovery	
13	SPK-PREDIG	S1010060041	S09V001617	0 0	W		Chloride	SOLID	8.6392542	8.7686E+00			0.098076	ug/g	96.347	% Recovery	
13	SPK-PREDIG	S1010060041	S09V001617	0 0	W		Nitrite	SOLID	55.9669	5.5905E+01			0.18868	ug/g	95.713	% Recovery	
13	SPK-PREDIG	S1010060041	S09V001617	0 0	W		Sulfate	SOLID	66.549732	6.8116E+01			0.18377	ug/g	97.651	% Recovery	
13	SPK-PREDIG	S1010060041	S09V001617	0 0	W		Oxalate	SOLID	53.829982	5.1153E+01			0.22701	ug/g	94.299	% Recovery	
13	SPK-PREDIG	S1010060041	S09V001617	0 0	W		Bromide	SOLID	61.970622	6.0069E+01			0.56998	ug/g	96.932	% Recovery	
13	SPK-PREDIG	S1010060041	S09V001617	0 0	W		Nitrate	SOLID	56.373932	5.9648E+01			0.20441	ug/g	97.526	% Recovery	
13	SPK-PREDIG	S1010060041	S09V001617	0 0	W		Phosphate	SOLID	56.170416	4.5449E+01			0.16411	ug/g	77.331	% Recovery	
Sample Sequence 14																	
14	CCV	S1010060148		0 0			Fluoride	LIQUID	.6	6.0651E-01			1.61E-03	ug/mL	101.08	% Recovery	
14	CCV	S1010060148		0 0			Glycolate	LIQUID	3.73	3.7331E+00			9.37E-03	ug/mL	100.08	% Recovery	
14	CCV	S1010060148		0 0			Acetate	LIQUID	4.53	4.3688E+00			6.04E-03	ug/mL	96.441	% Recovery	
14	CCV	S1010060148		0 0			Formate	LIQUID	4.39	4.4150E+00			4.67E-03	ug/mL	100.57	% Recovery	
14	CCV	S1010060148		0 0			Chloride	LIQUID	.849	8.4265E-01			9.98E-03	ug/mL	99.252	% Recovery	

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Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
14	CCV	S1010060148		0 0			Nitrite	LIQUID	5.5	5.3817E+00			0.0192	ug/mL	97.849	% Recovery	
14	CCV	S1010060148		0 0			Sulfate	LIQUID	6.54	6.6126E+00			0.0187	ug/mL	101.11	% Recovery	
14	CCV	S1010060148		0 0			Oxalate	LIQUID	5.29	5.2818E+00			0.0231	ug/mL	99.846	% Recovery	
14	CCV	S1010060148		0 0			Bromide	LIQUID	6.09	6.1286E+00			0.058	ug/mL	100.63	% Recovery	
14	CCV	S1010060148		0 0			Nitrate	LIQUID	5.54	5.5356E+00			0.0208	ug/mL	99.921	% Recovery	
14	CCV	S1010060148		0 0			Phosphate	LIQUID	5.52	5.5008E+00			0.0167	ug/mL	99.652	% Recovery	
Sample Sequence 15																	
15	CCB	S1010060147		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
15	CCB	S1010060147		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
15	CCB	S1010060147		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
15	CCB	S1010060147		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
15	CCB	S1010060147		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
15	CCB	S1010060147		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
15	CCB	S1010060147		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			
15	CCB	S1010060147		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
15	CCB	S1010060147		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
15	CCB	S1010060147		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
15	CCB	S1010060147		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			
Sample Sequence 16																	
16	SPK-IC	S1010060144	S09V001617	0 0			Fluoride	SOLID	59.4059406	7.0178E-01			1.61E-03	ug/g	107.56	% Recovery	
16	SPK-IC	S1010060144	S09V001617	0 0			Glycolate	SOLID	369.30693073	3.8156E+00			9.37E-03	ug/g	104.35	% Recovery	
16	SPK-IC	S1010060144	S09V001617	0 0			Acetate	SOLID	448.51485153	4.5369E+00			6.04E-03	ug/g	101.92	% Recovery	
16	SPK-IC	S1010060144	S09V001617	0 0			Formate	SOLID	434.65346539	4.5981E+00			4.67E-03	ug/g	105.74	% Recovery	
16	SPK-IC	S1010060144	S09V001617	0 0			Chloride	SOLID	84.059405949	9.1254E-01			9.98E-03	ug/g	104.27	% Recovery	
16	SPK-IC	S1010060144	S09V001617	0 0			Nitrite	SOLID	544.5544555	5.7597E+00			0.0192	ug/g	102.47	% Recovery	
16	SPK-IC	S1010060144	S09V001617	0 0			Sulfate	SOLID	647.52475254	7.1040E+00			0.0187	ug/g	105.9	% Recovery	
16	SPK-IC	S1010060144	S09V001617	0 0			Oxalate	SOLID	523.76237629	5.4640E+00			0.0231	ug/g	104.61	% Recovery	
16	SPK-IC	S1010060144	S09V001617	0 0			Bromide	SOLID	602.97029709	6.3078E+00			0.058	ug/g	105.66	% Recovery	
16	SPK-IC	S1010060144	S09V001617	0 0			Nitrate	SOLID	548.51485154	6.1808E+00			0.0208	ug/g	105.17	% Recovery	
16	SPK-IC	S1010060144	S09V001617	0 0			Phosphate	SOLID	546.53465352	5.8208E+00			0.0167	ug/g	103.83	% Recovery	
Sample Sequence 17																	
17	SAMPLE	S09V001629		0 1	W		Fluoride	SOLID	N/A	8.3168E-01			0.015841	ug/g			
17	SAMPLE	S09V001629		0 1	W		Glycolate	SOLID	N/A	<9.2190E-02			0.09219	ug/g			U
17	SAMPLE	S09V001629		0 1	W		Acetate	SOLID	N/A	<5.9427E-02			0.059427	ug/g			U
17	SAMPLE	S09V001629		0 1	W		Formate	SOLID	N/A	2.7254E-01			0.045947	ug/g			J
17	SAMPLE	S09V001629		0 1	W		Chloride	SOLID	N/A	3.7643E-01			0.098192	ug/g			J
17	SAMPLE	S09V001629		0 1	W		Nitrite	SOLID	N/A	4.8997E-01			0.18891	ug/g			BJ
17	SAMPLE	S09V001629		0 1	W		Sulfate	SOLID	N/A	2.9574E+00			0.18399	ug/g			J
17	SAMPLE	S09V001629		0 1	W		Oxalate	SOLID	N/A	3.0884E-01			0.22728	ug/g			J
17	SAMPLE	S09V001629		0 1	W		Bromide	SOLID	N/A	<5.7065E-01			0.57065	ug/g			U
17	SAMPLE	S09V001629		0 1	W		Nitrate	SOLID	N/A	3.6001E+00			0.20465	ug/g			
17	SAMPLE	S09V001629		0 1	W		Phosphate	SOLID	N/A	2.4601E+00			0.16431	ug/g			J
Sample Sequence 19																	

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00022897

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
19	DUP	S1010060047	S10V002492	0 0	W		Fluoride	SOLID					0.015947	ug/g	8.6060	% RPD	
19	DUP	S1010060047	S10V002492	0 0	W		Glycolate	SOLID					0.092809	ug/g			
19	DUP	S1010060047	S10V002492	0 0	W		Acetate	SOLID					0.059826	ug/g	15.450	% RPD	
19	DUP	S1010060047	S10V002492	0 0	W		Formate	SOLID					0.046256	ug/g	23.533	% RPD	
19	DUP	S1010060047	S10V002492	0 0	W		Chloride	SOLID					0.098851	ug/g	24.030	% RPD	
19	DUP	S1010060047	S10V002492	0 0	W		Nitrite	SOLID					0.19017	ug/g	30.688	% RPD	
19	DUP	S1010060047	S10V002492	0 0	W		Sulfate	SOLID					0.18522	ug/g	33.980	% RPD	
19	DUP	S1010060047	S10V002492	0 0	W		Oxalate	SOLID					0.2288	ug/g	61.901	% RPD	
19	DUP	S1010060047	S10V002492	0 0	W		Bromide	SOLID					0.57448	ug/g			
19	DUP	S1010060047	S10V002492	0 0	W		Nitrate	SOLID					0.20602	ug/g	19.501	% RPD	
19	DUP	S1010060047	S10V002492	0 0	W		Phosphate	SOLID					0.16541	ug/g	22.906	% RPD	
Sample Sequence 20																	
20	SPK-PREDIG	S1010060048	S10V002492	0 0	W		Fluoride	SOLID					0.015942	ug/g	93.125	% Recovery	
20	SPK-PREDIG	S1010060048	S10V002492	0 0	W		Glycolate	SOLID					0.092781	ug/g	97.273	% Recovery	
20	SPK-PREDIG	S1010060048	S10V002492	0 0	W		Acetate	SOLID					0.059808	ug/g	93.971	% Recovery	
20	SPK-PREDIG	S1010060048	S10V002492	0 0	W		Formate	SOLID					0.046242	ug/g	98.516	% Recovery	
20	SPK-PREDIG	S1010060048	S10V002492	0 0	W		Chloride	SOLID					0.098822	ug/g	107.18	% Recovery	
20	SPK-PREDIG	S1010060048	S10V002492	0 0	W		Nitrite	SOLID					0.19012	ug/g	95.211	% Recovery	
20	SPK-PREDIG	S1010060048	S10V002492	0 0	W		Sulfate	SOLID					0.18517	ug/g	116.67	% Recovery	
20	SPK-PREDIG	S1010060048	S10V002492	0 0	W		Oxalate	SOLID					0.22874	ug/g	96.587	% Recovery	
20	SPK-PREDIG	S1010060048	S10V002492	0 0	W		Bromide	SOLID					0.57431	ug/g	96.999	% Recovery	
20	SPK-PREDIG	S1010060048	S10V002492	0 0	W		Nitrate	SOLID					0.20596	ug/g	98.825	% Recovery	
20	SPK-PREDIG	S1010060048	S10V002492	0 0	W		Phosphate	SOLID					0.16536	ug/g	77.618	% Recovery	
Sample Sequence 22																	
22	CCV	S1010060150		0 0			Fluoride	LIQUID	.6	6.0281E-01			1.61E-03	ug/mL	100.47	% Recovery	
22	CCV	S1010060150		0 0			Glycolate	LIQUID	3.73	3.7005E+00			9.37E-03	ug/mL	99.208	% Recovery	
22	CCV	S1010060150		0 0			Acetate	LIQUID	4.53	4.3910E+00			6.04E-03	ug/mL	96.932	% Recovery	
22	CCV	S1010060150		0 0			Formate	LIQUID	4.39	4.3927E+00			4.67E-03	ug/mL	100.06	% Recovery	
22	CCV	S1010060150		0 0			Chloride	LIQUID	.849	8.3864E-01			9.98E-03	ug/mL	98.78	% Recovery	
22	CCV	S1010060150		0 0			Nitrite	LIQUID	5.5	5.3449E+00			0.0192	ug/mL	97.18	% Recovery	
22	CCV	S1010060150		0 0			Sulfate	LIQUID	6.54	6.5893E+00			0.0187	ug/mL	100.75	% Recovery	
22	CCV	S1010060150		0 0			Oxalate	LIQUID	5.29	5.1276E+00			0.0231	ug/mL	96.931	% Recovery	
22	CCV	S1010060150		0 0			Bromide	LIQUID	6.09	6.2127E+00			0.058	ug/mL	102.01	% Recovery	
22	CCV	S1010060150		0 0			Nitrate	LIQUID	5.54	5.4935E+00			0.0208	ug/mL	99.161	% Recovery	
22	CCV	S1010060150		0 0			Phosphate	LIQUID	5.52	5.4426E+00			0.0167	ug/mL	98.598	% Recovery	
Sample Sequence 23																	
23	CCB	S1010060149		0 0			Fluoride	LIQUID		<1.6100E-03			1.61E-03	ug/mL			
23	CCB	S1010060149		0 0			Glycolate	LIQUID		<9.3700E-03			9.37E-03	ug/mL			
23	CCB	S1010060149		0 0			Acetate	LIQUID		<6.0400E-03			6.04E-03	ug/mL			
23	CCB	S1010060149		0 0			Formate	LIQUID		<4.6700E-03			4.67E-03	ug/mL			
23	CCB	S1010060149		0 0			Chloride	LIQUID		<9.9800E-03			9.98E-03	ug/mL			
23	CCB	S1010060149		0 0			Nitrite	LIQUID		<1.9200E-02			0.0192	ug/mL			
23	CCB	S1010060149		0 0			Sulfate	LIQUID		<1.8700E-02			0.0187	ug/mL			

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00022897

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
23	CCB	S1010060149		0 0			Oxalate	LIQUID		<2.3100E-02			0.0231	ug/mL			
23	CCB	S1010060149		0 0			Bromide	LIQUID		<5.8000E-02			0.058	ug/mL			
23	CCB	S1010060149		0 0			Nitrate	LIQUID		<2.0800E-02			0.0208	ug/mL			
23	CCB	S1010060149		0 0			Phosphate	LIQUID		<1.6700E-02			0.0167	ug/mL			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00022897

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00022897

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1010060141	CCV				
2	S1010060142	CCB				
3	S1010060143	LLS				
4	S1010060039	BLNK-PREP				
5	S1010060038	STD-PREP				
6	S1010060145	CCV				
7	S1010060146	CCB				
8	S10V000087	SAMPLE		20090877	B238K3	C Farm WMC 2010-1
9	S10V000419	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
10	S10V000577	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
11	S09V001617	SAMPLE		20090877	B236N5	C Farm WMC 2010-1
12	S1010060040	DUP	S09V001617			
13	S1010060041	SPK-PREDIG	S09V001617			
14	S1010060148	CCV				
15	S1010060147	CCB				
16	S1010060144	SPK-IC	S09V001617			
17	S09V001629	SAMPLE		20090877	B236N8	C Farm WMC 2010-1
19	S1010060047	DUP	S10V002492			
20	S1010060048	SPK-PREDIG	S10V002492			
22	S1010060150	CCV				
23	S1010060149	CCB				

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

Date: 12 May 2011
To: CH2M Hill (technical representative)
From: Analytical Quality Associates, Inc.
Project: WMA C (C7670)
Subject: Radiochemical - Sample Data Group (SDG) 20100213

INTRODUCTION

This memorandum presents the results of data validation for SDG 20100213 prepared by 222-S Laboratory. A list of samples validated along with the analytical methods is provided in the following table.

Sample ID	Sample Date	Media	Validation Level	Analytical Methods
B23R25	4/15/2010	Soil	C	See note 1
B23KN7	4/15/2010	Soil	C	See note 1
B238J9	4/20/2010	Soil	C	See note 1
B25CN2	4/22/2010	Soil	C	See note 1
B23KP6	4/22/2010	Soil	C	See note 1
B23KP9	4/23/2010	Soil	C	See note 1
B23KR2	5/4/2010	Soil	C	See note 1
B23KR5	5/5/2010	Soil	C	See note 1
B25ND7	5/7/2010	Soil	C	See note 1

1 – Gamma spectrometry, Sr-89/90, Tritium, Se-79, C-14, Ni-63, I-129, Isotopic-Am/Cm, Isotopic-Pu

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 specific holding time and preservation requirements for radiochemical soil analysis.

- **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

No equipment blanks were submitted for validation.

- **Accuracy**

Accuracy is evaluated by reviewing matrix spike sample results, laboratory control sample results, and chemical recovery factors. Chemical recovery factors are determined through use of a carrier or tracer and provide assessment of the chemical separation process that is affected by the laboratory procedure, sample matrix, and/or interference. Chemical recovery factors are used to correct sample concentration, uncertainty, and MDC results. According to the SAP, the matrix spike sample accuracy limits are 75% to 125% and the laboratory control sample accuracy limits are 80% to 120%.

Matrix Spike (MS) Samples

All MS recoveries were acceptable.

Laboratory Control Samples (LCSs)

All LCS recoveries were acceptable with the following exception.

LCS analysis was not performed for Se-79. The Se-79 results for all samples were non-detects and should be qualified as estimates and flagged “UJ.”

Carrier/Tracer Recovery Factors

All carrier/tracer recovery factors were acceptable.

- **Precision**

Precision is evaluated by reviewing laboratory duplicate, field duplicate, 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%. The RPD limits for reported analytes not listed in the SAP are specified by the DV procedure. When duplicate RPDs exceed the limits and have associated results <5X the MDCs the precision limits are ones specified by the DV procedure.

Laboratory Duplicate Samples

All laboratory duplicate results were acceptable.

Field Duplicate Samples

All field duplicate results were acceptable with the following exception. Samples B23R25 and B23KN7 had a Cs-137 RPD = 33% and Ni-63 concentrations <5X the MDC and concentration difference >2X the MDC. No sample data were qualified as a result.

Field Split Samples

No field splits were submitted for validation.

- **Detection Limits**

Reported MDCs are compared against the required detection limits (RDLs) to ensure that laboratory detection limits meet the required criteria.

All reported sample MDCs were below the RDLs.

- **Completeness**

SDG 20100213 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

A minor deficiency leading to qualification of all Se-79 sample results as estimates was due to lack of LCS data.

REFERENCES

GRP-GD-002, Rev. 0, Change 0, *Data Validation for Radiochemical Analyses*, August 2010.

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

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

- **J-** — Indicates the constituent was analyzed for and detected. The associated value is estimated with a suspected negative bias 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

Radiochemical Data Qualification Summary			
SDG: 20100213	Reviewer: AQA	Project: WMA C (C7670)	Page 1 of 1
Analyte(s)	**Qualifier**	**Samples Affected**	**Reason**
Se-79	UJ	B23R25, B23KN7, B238J9, B25CN2, B23KP6, B23KP9, B23KR2, B23KR5, B25ND7	Lack of LCS data

Comments: None

Appendix 3

Annotated Laboratory Reports

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000420		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.19E-05	<2.07E-05	n/a	n/a	n/a	2.19E-05	n/a	U
S10V000420		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	3.83E-03	4.56E-03	4.19E-03	17.6	88.6	4.81E-05	n/a	
S10V000420		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	2.07E-05	<1.65E-05	n/a	n/a	n/a	1.75E-05	n/a	J
S10V000420		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.32E-04	<2.19E-04	n/a	n/a	106	2.32E-04	n/a	U
S10V000420		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.558	0.660	0.609	16.7	94.5	2.41E-03	n/a	
S10V000420		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0875	0.121	n/a	n/a	108	0.0875	n/a	U
S10V000420		A	7440-38-2	Arsenic	ug/g	112	<0.0420	3.91	3.94	3.92	0.855	95.6	0.460	n/a	
S10V000420		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.101	0.0862	0.0937	16.0	110	0.0328	n/a	
S10V000420		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.667	<0.631	n/a	n/a	101	0.667	n/a	U
S10V000420		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0994	0.0917	0.0956	8.05	95.7	6.57E-03	n/a	B
S10V000421		S	14798-03-9	Ammonium	ug/g	95.4	0.183	2.97	n/a	n/a	n/a	n/a	0.474	n/a	BJ
S10V000422		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.52E-04	<3.43E-04	n/a	n/a	101	3.52E-04	n/a	U
S10V000422		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0174	0.0166	0.0170	4.90	58.6	0.0109	n/a	Jb
S10V000422		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.17E-04	2.51E-04	2.34E-04	14.9	n/a	1.98E-04	n/a	Jb
S10V000571			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	8.59E-06	n/a	n/a	n/a	n/a	6.33E-06	47.38	J
S10V000571			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.33E-07	n/a	n/a	n/a	n/a	3.33E-07	n/a	U
S10V000571			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<1.00E-06	n/a	n/a	n/a	n/a	1.00E-06	n/a	U
S10V000571			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	7.52E-06	n/a	n/a	n/a	n/a	3.73E-07	7.59	
S10V000571			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.59E-06	n/a	n/a	n/a	n/a	1.59E-06	n/a	U
S10V000571			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<1.02E-06	n/a	n/a	n/a	n/a	1.02E-06	n/a	U
S10V000571			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<5.72E-07	n/a	n/a	n/a	n/a	5.72E-07	n/a	U
S10V000571			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	1.06E-06	n/a	n/a	n/a	n/a	8.95E-07	26.21	
S10V000571			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<1.08E-05	n/a	n/a	n/a	n/a	1.08E-05	n/a	U
S10V000571			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<3.65E-06	n/a	n/a	n/a	n/a	3.65E-06	n/a	U
S10V000571			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<1.70E-07	n/a	n/a	n/a	n/a	1.70E-07	n/a	U
S10V000572		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<1.63E-07	n/a	n/a	n/a	n/a	1.63E-07	n/a	U
S10V000572		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.07E-07	n/a	n/a	n/a	n/a	4.07E-07	n/a	U
S10V000572		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<1.63E-07	n/a	n/a	n/a	n/a	1.63E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23R25
Sample Depth: Surface

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000572		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.78E-07	n/a	n/a	n/a	n/a	2.78E-07	n/a	U
S10V000572		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.78E-07	n/a	n/a	n/a	n/a	2.78E-07	n/a	U
S10V000573		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	1.34E-06	n/a	n/a	n/a	n/a	1.12E-07	19.729	
S10V000574		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	1.56E-05	n/a	n/a	n/a	n/a	1.06E-05	142.893	J
S10V000574		E	15758-45-9	Selenium-79 UJ	uCi/g	n/a	<7.37E-07	<8.94E-07	n/a	n/a	n/a	n/a	8.94E-07	n/a	U
S10V001175		W	14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	<2.58E-06	n/a	n/a	n/a	n/a	2.58E-06	n/a	U
S10V001175		W	10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	<3.89E-06	n/a	n/a	n/a	n/a	3.89E-06	n/a	U
~~S10V001219~~		~~A~~	~~7440-36-0~~	~~Antimony~~	~~ug/g~~	~~99.4~~	~~<0.0100~~	~~0.286~~	~~0.290~~	~~0.288~~	~~1.27~~	~~89.5~~	~~9.68E-03~~	~~n/a~~	
~~S10V001729~~		~~WV~~	~~14133-76-7~~	~~Technetium-99~~	~~ug/g~~	~~107~~	~~<4.00E-06~~	~~<4.17E-06~~	~~<4.26E-06~~	~~n/a~~	~~n/a~~	~~90.8~~	~~4.17E-06~~	~~n/a~~	~~U~~

NA = Not Analyzed, ND = Not Detected

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b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000402			%WATERA	%WATER-APD	%	n/a	n/a	7.320	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000402			57-12-5	Cyanide	ug/g	97.0	<0.0370	<2.46	n/a	n/a	n/a	n/a	2.46	n/a	U
S10V000402			7439-97-6	Mercury	ug/g	102	<1.00E-04	<8.63E-03	n/a	n/a	n/a	n/a	8.63E-03	n/a	U
S10V000402			PH	pH	unitless	n/a	n/a	8.15	8.63	8.39	5.72	n/a	0.0100	n/a	
S10V000402			18496-25-8	Sulfide	ug/g	89.6	<0.180	34.8	n/a	n/a	n/a	n/a	7.23	n/a	J
S10V000575			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.46E-05	n/a	n/a	n/a	n/a	6.68E-06	30.93	J
S10V000575			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.54E-07	n/a	n/a	n/a	n/a	3.54E-07	n/a	U
S10V000575			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<9.75E-07	n/a	n/a	n/a	n/a	9.75E-07	n/a	U
S10V000575			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	5.40E-06	n/a	n/a	n/a	n/a	4.06E-07	8.93	
S10V000575			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.49E-06	n/a	n/a	n/a	n/a	1.49E-06	n/a	U
S10V000575			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<1.10E-06	n/a	n/a	n/a	n/a	1.10E-06	n/a	U
S10V000575			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<5.91E-07	n/a	n/a	n/a	n/a	5.91E-07	n/a	U
S10V000575			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	5.33E-07	n/a	n/a	n/a	n/a	6.25E-07	47.66	Jc
S10V000575			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	7.51E-07	n/a	n/a	n/a	n/a	8.51E-07	44.49	J
S10V000575			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<1.10E-05	n/a	n/a	n/a	n/a	1.10E-05	n/a	U
S10V000575			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<3.66E-06	n/a	n/a	n/a	n/a	3.66E-06	n/a	U
S10V000575			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.14E-07	n/a	n/a	n/a	n/a	2.14E-07	n/a	U
S10V000576		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.6	<77.4	<69.7	n/a	n/a	n/a	n/a	69.7	n/a	U
S10V000576		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<90.6	n/a	n/a	n/a	n/a	90.6	n/a	U
S10V000576		O	121-14-2	2,4-Dinitrotoluene	ug/kg	87.3	<38.1	<34.3	n/a	n/a	n/a	n/a	34.3	n/a	U
S10V000576		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<39.6	n/a	n/a	n/a	n/a	39.6	n/a	U
S10V000576		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<44.6	n/a	n/a	n/a	n/a	44.6	n/a	U
S10V000576		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<51.8	n/a	n/a	n/a	n/a	51.8	n/a	U
S10V000576		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U
S10V000576		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<46.3	n/a	n/a	n/a	n/a	46.3	n/a	U
S10V000576		O	83-32-9	Acenaphthene	ug/kg	72.2	<17.6	<15.8	n/a	n/a	n/a	n/a	15.8	n/a	U
S10V000576		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<34.0	n/a	n/a	n/a	n/a	34.0	n/a	U
S10V000576		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000576~~		~~O~~	~~50-32-8~~	~~Benzo(a)pyrene~~	~~ug/kg~~	~~n/a~~	~~<41.2~~	~~<37.1~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~37.1~~	~~n/a~~	~~U~~
S10V000576		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<531	n/a	n/a	n/a	n/a	531	n/a	U
S10V000576		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<35.2	n/a	n/a	n/a	n/a	35.2	n/a	U
S10V000576		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<45.0	n/a	n/a	n/a	n/a	45.0	n/a	U
S10V000576		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.5	<43.2	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S10V000576		O	95-57-8	2-Chlorophenol	ug/kg	68.6	<66.5	<59.9	n/a	n/a	n/a	n/a	59.9	n/a	U
S10V000576		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<73.3	n/a	n/a	n/a	n/a	73.3	n/a	U
S10V000576		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<46.0	n/a	n/a	n/a	n/a	46.0	n/a	U
S10V000576		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<506	n/a	n/a	n/a	n/a	506	n/a	U
S10V000576		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<42.9	n/a	n/a	n/a	n/a	42.9	n/a	U
S10V000576		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.1	<58.1	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S10V000576		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<31.9	n/a	n/a	n/a	n/a	31.9	n/a	U
S10V000576		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<62.7	n/a	n/a	n/a	n/a	62.7	n/a	U
S10V000576		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V000576		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<45.9	n/a	n/a	n/a	n/a	45.9	n/a	U
S10V000576		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<56.3	n/a	n/a	n/a	n/a	56.3	n/a	U
S10V000576		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<58.1	n/a	n/a	n/a	n/a	58.1	n/a	U
S10V000576		O	129-00-0	Pyrene	ug/kg	93.9	<62.9	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S10V000576		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<58.5	n/a	n/a	n/a	n/a	58.5	n/a	U
S10V000576		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<97.0	n/a	n/a	n/a	n/a	97.0	n/a	U
S10V000576		O	128-37-0	BHT	ug/kg	n/a	<236	<212	n/a	n/a	n/a	n/a	212	n/a	U
S10V000576		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<164	n/a	n/a	n/a	n/a	164	n/a	U
S10V000576		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<95.9	n/a	n/a	n/a	n/a	95.9	n/a	U
S10V000576		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<502	n/a	n/a	n/a	n/a	502	n/a	U
S10V000576		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<172	n/a	n/a	n/a	n/a	172	n/a	U
~~S10V000576~~		~~O~~	~~78-83-1~~	~~Isobutanol~~	~~ug/kg~~	~~n/a~~	~~<460~~	~~<414~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~414~~	~~n/a~~	~~U~~
S10V000577		W	14762-75-5	Carbon-14	uCi/g	93.5	<2.60E-07	<2.83E-06	n/a	n/a	n/a	n/a	2.83E-06	n/a	U
~~S10V000577~~		~~W~~	~~16984-48-8~~	~~Fluoride~~	~~ug/g~~	~~103~~	~~<1.61E-03~~	~~1.36~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.0161~~	~~n/a~~	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000578~~		~~A~~	~~7704-34-9~~	~~Sulfur~~	~~ug/g~~	~~94.7~~	~~<0.100~~	~~61.9~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~10.5~~	~~n/a~~	~~J~~
S10V000578		A	7440-21-3	Silicon	ug/g	85.0	<0.0300	172	n/a	n/a	n/a	n/a	3.16	n/a	b
S10V000578		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	33.3	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000578		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	1.10E+03	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	37.9	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	9.91	n/a	n/a	n/a	n/a	0.211	n/a	
S10V000578		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	36.8	n/a	n/a	n/a	n/a	0.527	n/a	
S10V000578		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	2.88	n/a	n/a	n/a	n/a	0.527	n/a	BJb
S10V000578		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<2.95E-05	n/a	n/a	n/a	n/a	2.95E-05	n/a	U
S10V000578		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	5.32	n/a	n/a	n/a	n/a	7.16E-04	n/a	b
S10V000578		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	2.16E-04	n/a	n/a	n/a	n/a	4.21E-05	n/a	J
S10V000578		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	4.14E-05	n/a	n/a	n/a	n/a	2.11E-05	n/a	J
S10V000578		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	6.60E-03	n/a	n/a	n/a	n/a	4.63E-05	n/a	
S10V000578		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	1.98E-05	n/a	n/a	n/a	n/a	1.69E-05	n/a	J
S10V000578		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.23E-04	n/a	n/a	n/a	n/a	2.23E-04	n/a	U
S10V000578		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.974	n/a	n/a	n/a	n/a	2.32E-03	n/a	
S10V000578		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0843	n/a	n/a	n/a	99.0	0.0843	n/a	U
S10V000578		A	7440-38-2	Arsenic	ug/g	112	<0.0420	4.52	n/a	n/a	n/a	n/a	0.442	n/a	
S10V000578		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.0892	n/a	n/a	n/a	n/a	0.0316	n/a	
S10V000578		A	7439-92-1	Lead	ug/g	101	<0.0310	6.28	n/a	n/a	n/a	n/a	0.327	n/a	
S10V000578		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.643	n/a	n/a	n/a	88.6	0.643	n/a	U
S10V000578		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0852	n/a	n/a	n/a	n/a	6.32E-03	n/a	B
S10V000579		S	14798-03-9	Ammonium	ug/g	95.4	0.183	2.75	n/a	n/a	n/a	n/a	0.475	n/a	BJ
S10V000624		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.28E-04	n/a	n/a	n/a	n/a	3.28E-04	n/a	U
S10V000624		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0181	n/a	n/a	n/a	n/a	0.0102	n/a	Jb
~~S10V000624~~		~~A~~	~~15832-50-5~~	~~Tin-126~~	~~ug/g~~	~~n/a~~	~~<2.00E-05~~	~~2.79E-04~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~1.85E-04~~	~~n/a~~	~~Jb~~
S10V000625		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<1.82E-07	n/a	n/a	n/a	n/a	1.82E-07	n/a	U
S10V000625		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.56E-07	n/a	n/a	n/a	n/a	4.56E-07	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KN7
Sample Depth: Surface Dup

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000625		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<1.82E-07	n/a	n/a	n/a	n/a	1.82E-07	n/a	U
S10V000625		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.47E-07	n/a	n/a	n/a	n/a	2.47E-07	n/a	U
S10V000625		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.47E-07	n/a	n/a	n/a	n/a	2.47E-07	n/a	U
S10V000626		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	1.45E-06	n/a	n/a	n/a	n/a	1.24E-07	20.079	
S10V000627		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	3.90E-04	n/a	n/a	n/a	n/a	1.08E-05	5.237	
S10V000627		E	15758-45-9	Selenium-79 UJ	uCi/g	n/a	<7.37E-07	<1.73E-06	n/a	n/a	n/a	n/a	1.73E-06	n/a	U
S10V001176		W	10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	<4.85E-06	4.26E-06	n/a	n/a	94.5	4.85E-06	n/a	U
~~S10V001214~~		~~A~~	~~7440-36-0~~	~~Antimony~~	~~ug/g~~	~~99.4~~	~~<0.0100~~	~~0.267~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~9.34E-03~~	~~n/a~~	
~~S10V001730~~		~~WV~~	~~14133-76-7~~	~~Technetium-99~~	~~ug/g~~	~~107~~	~~<4.00E-06~~	~~<4.15E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~4.15E-06~~	~~n/a~~	~~U~~

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000403			%WATERA	%WATER-APD	%	n/a	n/a	3.690	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000403			57-12-5	Cyanide	ug/g	97.0	<0.0370	<2.48	n/a	n/a	n/a	n/a	2.48	n/a	U
S10V000403			7439-97-6	Mercury	ug/g	102	<1.00E-04	<9.34E-03	n/a	n/a	n/a	n/a	9.34E-03	n/a	U
S10V000403			PH	pH	unitless	n/a	n/a	8.46	8.53	8.50	0.824	n/a	0.0100	n/a	
S10V000403			18496-25-8	Sulfide	ug/g	108	<0.180	21.3	23.3	22.3	8.86	105	7.09	n/a	J
S10V000412			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.05	n/a	n/a	n/a	n/a	n/a	n/a	
S10V000623			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.22E-05	n/a	n/a	n/a	n/a	5.37E-06	29.82	
S10V000623			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.03E-07	n/a	n/a	n/a	n/a	3.03E-07	n/a	U
S10V000623			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<7.19E-07	n/a	n/a	n/a	n/a	7.19E-07	n/a	U
S10V000623			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.39E-07	n/a	n/a	n/a	n/a	3.39E-07	n/a	U
S10V000623			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.19E-06	n/a	n/a	n/a	n/a	1.19E-06	n/a	U
S10V000623			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.71E-07	n/a	n/a	n/a	n/a	8.71E-07	n/a	U
S10V000623			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.51E-07	n/a	n/a	n/a	n/a	4.51E-07	n/a	U
S10V000623			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	6.64E-07	n/a	n/a	n/a	n/a	5.80E-07	38.19	J
S10V000623			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.31E-06	n/a	n/a	n/a	n/a	8.31E-06	n/a	U
S10V000623			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.85E-06	n/a	n/a	n/a	n/a	2.85E-06	n/a	U
S10V000623			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.32E-07	n/a	n/a	n/a	n/a	2.32E-07	n/a	U
S10V000628		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.6	<77.4	<76.6	n/a	n/a	n/a	n/a	76.6	n/a	U
S10V000628		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.6	n/a	n/a	n/a	n/a	99.6	n/a	U
S10V000628		O	121-14-2	2,4-Dinitrotoluene	ug/kg	87.3	<38.1	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V000628		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S10V000628		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S10V000628		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S10V000628		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.1	n/a	n/a	n/a	n/a	53.1	n/a	U
S10V000628		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V000628		O	83-32-9	Acenaphthene	ug/kg	72.2	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S10V000628		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S10V000628		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U

NA = Not Analyzed, ND = Not Detected

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J - Estimated
b - MS/MSD Outside Range
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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000628		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.8	n/a	n/a	n/a	n/a	40.8	n/a	U
S10V000628		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<584	n/a	n/a	n/a	n/a	584	n/a	U
S10V000628		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.7	n/a	n/a	n/a	n/a	38.7	n/a	U
S10V000628		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S10V000628		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.5	<43.2	<42.7	n/a	n/a	n/a	n/a	42.7	n/a	U
S10V000628		O	95-57-8	2-Chlorophenol	ug/kg	68.6	<66.5	<65.8	n/a	n/a	n/a	n/a	65.8	n/a	U
S10V000628		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.5	n/a	n/a	n/a	n/a	80.5	n/a	U
S10V000628		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S10V000628		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V000628		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S10V000628		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.1	<58.1	<57.5	n/a	n/a	n/a	n/a	57.5	n/a	U
S10V000628		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.0	n/a	n/a	n/a	n/a	35.0	n/a	U
S10V000628		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.9	n/a	n/a	n/a	n/a	68.9	n/a	U
S10V000628		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V000628		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S10V000628		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S10V000628		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S10V000628		O	129-00-0	Pyrene	ug/kg	93.9	<62.9	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S10V000628		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S10V000628		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V000628		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S10V000628		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S10V000628		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V000628		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<552	n/a	n/a	n/a	n/a	552	n/a	U
S10V000628		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S10V000628		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
S10V000629		W	14762-75-5	Carbon-14	uCi/g	93.5	<2.60E-07	<2.71E-06	<2.73E-06	n/a	n/a	n/a	2.71E-06	n/a	U
S10V000629		W	16984-48-8	Fluoride	ug/g	98.5	<1.61E-03	1.11	1.21	1.16	8.50	n/a	0.0170	n/a	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000630		A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	799	n/a	n/a	n/a	n/a	5.22	n/a	
S10V000630		A	7704-34-9	Sulfur	ug/g	94.7	<0.100	45.2	n/a	n/a	n/a	n/a	10.4	n/a	J
S10V000630		A	7440-21-3	Silicon	ug/g	85.0	<0.0300	105	n/a	n/a	n/a	n/a	3.13	n/a	b
S10V000630		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	28.1	n/a	n/a	n/a	n/a	0.313	n/a	
S10V000630		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	883	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	32.0	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	9.21	n/a	n/a	n/a	n/a	0.209	n/a	
S10V000630		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	28.3	n/a	n/a	n/a	n/a	0.522	n/a	
S10V000630		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	1.28	n/a	n/a	n/a	n/a	0.522	n/a	BJb
S10V000630		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	4.92E-05	n/a	n/a	n/a	n/a	2.93E-05	n/a	BJ
S10V000630		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	2.35	n/a	n/a	n/a	n/a	2.09E-03	n/a	
S10V000630		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.15E-04	n/a	n/a	n/a	n/a	4.18E-05	n/a	J
S10V000630		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.09E-05	n/a	n/a	n/a	n/a	2.09E-05	n/a	U
S10V000630		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	3.08E-03	n/a	n/a	n/a	n/a	4.18E-05	n/a	
S10V000630		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.67E-05	n/a	n/a	n/a	n/a	1.67E-05	n/a	U
S10V000630		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<4.18E-04	n/a	n/a	n/a	n/a	4.18E-04	n/a	U
S10V000630		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.444	n/a	n/a	n/a	n/a	2.09E-03	n/a	
S10V000630		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000630		A	7440-38-2	Arsenic	ug/g	112	<0.0420	2.20	n/a	n/a	n/a	n/a	0.439	n/a	
S10V000630		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.0611	n/a	n/a	n/a	n/a	0.0313	n/a	
S10V000630		A	7439-92-1	Lead	ug/g	101	<0.0310	3.08	n/a	n/a	n/a	n/a	0.324	n/a	
S10V000630		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000630		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0634	n/a	n/a	n/a	n/a	6.27E-03	n/a	B
S10V000631		S	14798-03-9	Ammonium	ug/g	90.5	0.195	0.729	0.960	0.845	27.3	94.8	0.476	n/a	BJ
S10V000632		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.16E-04	n/a	n/a	n/a	n/a	3.16E-04	n/a	U
S10V000632		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0134	n/a	n/a	n/a	n/a	0.0110	n/a	Jb
S10V000632		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	<2.00E-04	n/a	n/a	n/a	n/a	2.00E-04	n/a	Ub
S10V000633		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B238J9
Sample Depth: 5-7

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000633		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.97E-07	n/a	n/a	n/a	n/a	4.97E-07	n/a	U
S10V000633		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U
S10V000633		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.27E-07	n/a	n/a	n/a	n/a	2.27E-07	n/a	U
S10V000633		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.27E-07	n/a	n/a	n/a	n/a	2.27E-07	n/a	U
S10V000634		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	1.17E-07	n/a	n/a	n/a	n/a	1.10E-07	145.945	J
S10V000635		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.34E-05	n/a	n/a	n/a	n/a	1.34E-05	n/a	U
S10V000635		E	15758-45-9	Selenium-79 UJ	uCi/g	n/a	<7.37E-07	<1.50E-06	n/a	n/a	n/a	n/a	1.50E-06	n/a	U
S10V001177		W	10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	4.65E-06	n/a	n/a	n/a	n/a	2.51E-06	81.595	J
~~S10V001213~~		~~A~~	~~7440-36-0~~	~~Antimony~~	~~ug/g~~	~~99.4~~	~~<0.0100~~	~~0.0968~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~9.55E-03~~	~~n/a~~	~~B~~
~~S10V001701~~		~~WV~~	~~14133-76-7~~	~~Technetium-99~~	~~ug/g~~	~~107~~	~~<4.00E-06~~	~~<3.85E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~3.85E-06~~	~~n/a~~	~~U~~

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000404			%WATERA	%WATER-APD	%	n/a	n/a	3.890	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000404			57-12-5	Cyanide	ug/g	99.5	<0.0370	<2.85	<2.79	n/a	n/a	98.4	2.85	n/a	U
S10V000404			7439-97-6	Mercury	ug/g	102	<1.00E-04	0.0102	n/a	n/a	n/a	n/a	8.98E-03	n/a	J
S10V000404			PH	pH	unitless	n/a	n/a	9.33	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000404			18496-25-8	Sulfide	ug/g	106	<0.180	17.9	17.9	17.9	0.309	111	7.11	n/a	J
S10V000636			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.34E-05	n/a	n/a	n/a	n/a	5.20E-06	26.66	
S10V000636			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.34E-07	n/a	n/a	n/a	n/a	2.34E-07	n/a	U
S10V000636			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<6.86E-07	n/a	n/a	n/a	n/a	6.86E-07	n/a	U
S10V000636			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.33E-07	n/a	n/a	n/a	n/a	3.33E-07	n/a	U
S10V000636			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.13E-06	n/a	n/a	n/a	n/a	1.13E-06	n/a	U
S10V000636			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.19E-07	n/a	n/a	n/a	n/a	8.19E-07	n/a	U
S10V000636			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.31E-07	n/a	n/a	n/a	n/a	4.31E-07	n/a	U
S10V000636			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	1.02E-06	n/a	n/a	n/a	n/a	4.72E-07	26.19	c
S10V000636			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	9.34E-07	n/a	n/a	n/a	n/a	6.24E-07	34.89	J
S10V000636			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.10E-06	n/a	n/a	n/a	n/a	8.10E-06	n/a	U
S10V000636			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.66E-06	n/a	n/a	n/a	n/a	2.66E-06	n/a	U
S10V000636			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.72E-07	n/a	n/a	n/a	n/a	2.72E-07	n/a	U
S10V000637		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.4	<774	<77.3	n/a	n/a	n/a	n/a	77.3	n/a	U
S10V000637		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V000637		O	121-14-2	2,4-Dinitrotoluene	ug/kg	88.6	<381	<38.0	n/a	n/a	n/a	n/a	38.0	n/a	U
S10V000637		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S10V000637		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V000637		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S10V000637		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<53.6	n/a	n/a	n/a	n/a	53.6	n/a	U
S10V000637		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S10V000637		O	83-32-9	Acenaphthene	ug/kg	76.0	<176	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S10V000637		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V000637		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000639		A	7440-21-3	Silicon	ug/g	85.0	<0.0300	95.5	n/a	n/a	n/a	n/a	3.06	n/a	b
S10V000639		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	25.9	n/a	n/a	n/a	n/a	0.306	n/a	
S10V000639		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	890	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	32.6	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	7.38	n/a	n/a	n/a	n/a	0.204	n/a	
S10V000639		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	29.3	n/a	n/a	n/a	n/a	0.510	n/a	
S10V000639		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	3.07	n/a	n/a	n/a	n/a	0.510	n/a	BJb
S10V000639		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<2.86E-05	n/a	n/a	n/a	n/a	2.86E-05	n/a	U
S10V000639		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	2.24	n/a	n/a	n/a	n/a	6.94E-04	n/a	b
S10V000639		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.58E-04	n/a	n/a	n/a	n/a	4.08E-05	n/a	J
S10V000639		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.04E-05	n/a	n/a	n/a	n/a	2.04E-05	n/a	U
S10V000639		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	2.70E-03	n/a	n/a	n/a	n/a	4.49E-05	n/a	
S10V000639		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.63E-05	n/a	n/a	n/a	n/a	1.63E-05	n/a	U
S10V000639		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.16E-04	n/a	n/a	n/a	n/a	2.16E-04	n/a	U
S10V000639		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.399	n/a	n/a	n/a	n/a	2.25E-03	n/a	
S10V000639		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0816	n/a	n/a	n/a	n/a	0.0816	n/a	U
S10V000639		A	7440-38-2	Arsenic	ug/g	112	<0.0420	2.36	n/a	n/a	n/a	n/a	0.429	n/a	
S10V000639		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.0725	n/a	n/a	n/a	n/a	0.0306	n/a	
S10V000639		A	7439-92-1	Lead	ug/g	101	<0.0310	4.27	n/a	n/a	n/a	n/a	0.316	n/a	
S10V000639		A	7782-49-2	Selenium	ug/g	107	<0.0610	1.35	n/a	n/a	n/a	n/a	0.623	n/a	J
S10V000639		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0520	n/a	n/a	n/a	n/a	6.12E-03	n/a	BJ
S10V000640		S	14798-03-9	Ammonium	ug/g	91.4	<0.0120	1.07	1.27	1.17	16.8	94.4	0.478	n/a	J
S10V000641		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.07E-04	n/a	n/a	n/a	n/a	3.07E-04	n/a	U
S10V000641		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0186	n/a	n/a	n/a	n/a	0.0106	n/a	Jb
S10V000641		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	<1.92E-04	n/a	n/a	n/a	n/a	1.92E-04	n/a	Ub
S10V000642		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<2.42E-07	n/a	n/a	n/a	n/a	2.42E-07	n/a	U
S10V000642		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<6.05E-07	n/a	n/a	n/a	n/a	6.05E-07	n/a	U
S10V000642		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<2.42E-07	n/a	n/a	n/a	n/a	2.42E-07	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25CN2
Sample Depth: 10-14

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000642		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.38E-07	n/a	n/a	n/a	n/a	2.38E-07	n/a	U
S10V000642		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.38E-07	n/a	n/a	n/a	n/a	2.38E-07	n/a	U
S10V000643		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<2.90E-07	n/a	n/a	n/a	n/a	2.90E-07	n/a	U
S10V000644		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.65E-05	n/a	n/a	n/a	n/a	1.65E-05	n/a	U
S10V000644		E	15758-45-9	Selenium-79 UJ	uCi/g	n/a	<7.37E-07	<2.40E-06	n/a	n/a	n/a	n/a	2.40E-06	n/a	U
S10V001178		W	14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	<3.17E-06	n/a	n/a	n/a	n/a	3.17E-06	n/a	U
S10V001178		W	10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	<4.94E-06	n/a	n/a	n/a	n/a	1.48E-06	n/a	U
~~S10V001220~~		~~A~~	~~7440-36-0~~	~~Antimony~~	~~ug/g~~	~~99.4~~	~~<0.0100~~	~~0.0800~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~9.65E-03~~	~~n/a~~	~~BJ~~
~~S10V001732~~		~~WV~~	~~14133-76-7~~	~~Technetium-99~~	~~ug/g~~	~~107~~	~~<4.00E-06~~	~~<3.82E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~3.82E-06~~	~~n/a~~	~~U~~

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000406			%WATERA	%WATER-APD	%	n/a	n/a	3.930	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000406			57-12-5	Cyanide	ug/g	99.5	<0.0370	<2.62	n/a	n/a	n/a	n/a	2.62	n/a	U
S10V000406			7439-97-6	Mercury	ug/g	101	<1.00E-04	0.0171	n/a	n/a	n/a	n/a	8.94E-03	n/a	J
S10V000406			PH	pH	unitless	n/a	n/a	9.03	9.35	9.19	3.48	n/a	0.0100	n/a	
S10V000406			18496-25-8	Sulfide	ug/g	106	<0.180	17.0	n/a	n/a	n/a	n/a	7.18	n/a	J
S10V000654			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.01E-05	n/a	n/a	n/a	n/a	5.11E-06	33.70	J
S10V000654			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.57E-07	n/a	n/a	n/a	n/a	2.57E-07	n/a	U
S10V000654			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<6.93E-07	n/a	n/a	n/a	n/a	6.93E-07	n/a	U
S10V000654			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.29E-07	n/a	n/a	n/a	n/a	3.29E-07	n/a	U
S10V000654			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.21E-06	n/a	n/a	n/a	n/a	1.21E-06	n/a	U
S10V000654			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.36E-07	n/a	n/a	n/a	n/a	8.36E-07	n/a	U
S10V000654			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.46E-07	n/a	n/a	n/a	n/a	4.46E-07	n/a	U
S10V000654			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	7.46E-07	n/a	n/a	n/a	n/a	3.95E-07	20.84	c
S10V000654			14733-03-0	Bismuth-214	uCi/g	n/a	<6.45E-07	8.44E-07	n/a	n/a	n/a	n/a	5.08E-07	37.33	J
S10V000654			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.17E-06	n/a	n/a	n/a	n/a	8.17E-06	n/a	U
S10V000654			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.71E-06	n/a	n/a	n/a	n/a	2.71E-06	n/a	U
S10V000654			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.68E-07	n/a	n/a	n/a	n/a	2.68E-07	n/a	U
S10V000655		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.4	<774	<76.2	n/a	n/a	n/a	n/a	76.2	n/a	U
S10V000655		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<99.1	n/a	n/a	n/a	n/a	99.1	n/a	U
S10V000655		O	121-14-2	2,4-Dinitrotoluene	ug/kg	88.6	<381	<37.5	n/a	n/a	n/a	n/a	37.5	n/a	U
S10V000655		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<43.3	n/a	n/a	n/a	n/a	43.3	n/a	U
S10V000655		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S10V000655		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S10V000655		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<52.8	n/a	n/a	n/a	n/a	52.8	n/a	U
S10V000655		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S10V000655		O	83-32-9	Acenaphthene	ug/kg	76.0	<176	<17.3	n/a	n/a	n/a	n/a	17.3	n/a	U
S10V000655		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U
S10V000655		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000657		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	26.9	n/a	n/a	n/a	n/a	0.323	n/a	
S10V000657		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	984	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	33.5	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	7.27	n/a	n/a	n/a	n/a	0.215	n/a	
S10V000657		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	33.7	n/a	n/a	n/a	n/a	0.538	n/a	
S10V000657		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	8.33	n/a	n/a	n/a	n/a	0.538	n/a	Bb
S10V000657		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<3.01E-05	n/a	n/a	n/a	n/a	3.01E-05	n/a	U
S10V000657		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	2.21	n/a	n/a	n/a	n/a	7.32E-04	n/a	b
S10V000657		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	9.70E-05	n/a	n/a	n/a	n/a	4.30E-05	n/a	J
S10V000657		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	2.67E-05	n/a	n/a	n/a	n/a	2.15E-05	n/a	J
S10V000657		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	2.93E-03	n/a	n/a	n/a	n/a	4.73E-05	n/a	
S10V000657		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.72E-05	n/a	n/a	n/a	n/a	1.72E-05	n/a	U
S10V000657		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.28E-04	n/a	n/a	n/a	n/a	2.28E-04	n/a	U
S10V000657		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.416	n/a	n/a	n/a	n/a	2.37E-03	n/a	
S10V000657		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0861	n/a	n/a	n/a	n/a	0.0861	n/a	U
S10V000657		A	7440-38-2	Arsenic	ug/g	112	<0.0420	2.59	n/a	n/a	n/a	n/a	0.452	n/a	
S10V000657		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.0546	n/a	n/a	n/a	n/a	0.0323	n/a	
S10V000657		A	7439-92-1	Lead	ug/g	101	<0.0310	3.52	n/a	n/a	n/a	n/a	0.334	n/a	
S10V000657		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.656	n/a	n/a	n/a	n/a	0.656	n/a	U
S10V000657		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0608	n/a	n/a	n/a	n/a	6.46E-03	n/a	BJ
S10V000658		S	14798-03-9	Ammonium	ug/g	91.4	<0.0120	1.35	n/a	n/a	n/a	n/a	0.468	n/a	J
S10V000659		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.15E-04	n/a	n/a	n/a	n/a	3.15E-04	n/a	U
S10V000659		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0132	n/a	n/a	n/a	n/a	0.0103	n/a	Jb
S10V000659		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	7.25E-04	n/a	n/a	n/a	n/a	1.88E-04	n/a	Jb
S10V000660		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<1.87E-07	n/a	n/a	n/a	n/a	1.87E-07	n/a	U
S10V000660		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.67E-07	n/a	n/a	n/a	n/a	4.67E-07	n/a	U
S10V000660		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<1.87E-07	n/a	n/a	n/a	n/a	1.87E-07	n/a	U
S10V000660		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.59E-07	n/a	n/a	n/a	n/a	2.59E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

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a - LCS Outside Range
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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP6
Sample Depth: 14-16

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000660		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.59E-07	n/a	n/a	n/a	n/a	2.59E-07	n/a	U
S10V000661		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<3.42E-07	n/a	n/a	n/a	n/a	3.42E-07	n/a	U
S10V000662		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<2.10E-05	n/a	n/a	n/a	n/a	2.10E-05	n/a	U
S10V000662		E	15758-45-9	Selenium-79 UJ	uCi/g	n/a	<7.37E-07	<1.06E-06	n/a	n/a	n/a	n/a	1.06E-06	n/a	U
~~S10V000821~~			~~BULKDENSI~~	~~Bulk Density~~	~~g/mL~~	~~n/a~~	~~n/a~~	~~2.13~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	
S10V001179		W	14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	4.69E-06	n/a	n/a	n/a	n/a	4.28E-06	56.856	J
S10V001179		W	10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	<3.85E-06	n/a	n/a	n/a	n/a	3.85E-06	n/a	U
~~S10V001215~~		~~A~~	~~7440-36-0~~	~~Antimony~~	~~ug/g~~	~~99.4~~	~~<0.0100~~	~~0.0741~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~9.66E-03~~	~~n/a~~	~~B J~~
~~S10V001733~~		~~WV~~	~~14133-76-7~~	~~Technetium-99~~	~~ug/g~~	~~107~~	~~<4.00E-06~~	~~<3.90E-06~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~3.90E-06~~	~~n/a~~	~~U~~

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

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Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000407			%WATERA	%WATER-APD	%	n/a	n/a	7.240	7.650	7.445	5.507	n/a	0.01000	n/a	
S10V000407			57-12-5	Cyanide	ug/g	99.5	<0.0370	<2.58	n/a	n/a	n/a	n/a	2.58	n/a	U
S10V000407			7439-97-6	Mercury	ug/g	101	<1.00E-04	<8.00E-03	n/a	n/a	n/a	n/a	8.00E-03	n/a	U
S10V000407			PH	pH	unitless	n/a	n/a	9.19	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000407			18496-25-8	Sulfide	ug/g	106	<0.180	14.5	n/a	n/a	n/a	n/a	7.19	n/a	J
S10V000663			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.32E-05	n/a	n/a	n/a	n/a	7.51E-06	37.54	J
S10V000663			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<3.76E-07	n/a	n/a	n/a	n/a	3.76E-07	n/a	U
S10V000663			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<9.67E-07	n/a	n/a	n/a	n/a	9.67E-07	n/a	U
S10V000663			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<4.99E-07	n/a	n/a	n/a	n/a	4.99E-07	n/a	U
S10V000663			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.91E-06	n/a	n/a	n/a	n/a	1.91E-06	n/a	U
S10V000663			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<1.19E-06	n/a	n/a	n/a	n/a	1.19E-06	n/a	U
S10V000663			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<6.28E-07	n/a	n/a	n/a	n/a	6.28E-07	n/a	U
S10V000663			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	7.65E-07	n/a	n/a	n/a	n/a	7.12E-07	37.49	Jc
S10V000663			15067-28-4	Lead-214	uCi/g	n/a	<5.69E-07	8.76E-07	n/a	n/a	n/a	n/a	8.69E-07	40.40	J
S10V000663			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<1.18E-05	n/a	n/a	n/a	n/a	1.18E-05	n/a	U
S10V000663			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<4.06E-06	n/a	n/a	n/a	n/a	4.06E-06	n/a	U
S10V000663			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.35E-07	n/a	n/a	n/a	n/a	2.35E-07	n/a	U
S10V000664		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.4	<774	<75.4	n/a	n/a	n/a	65.9	75.4	n/a	U
S10V000664		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<98.0	n/a	n/a	n/a	n/a	98.0	n/a	U
S10V000664		O	121-14-2	2,4-Dinitrotoluene	ug/kg	88.6	<381	<37.1	n/a	n/a	n/a	90.8	37.1	n/a	U
S10V000664		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<42.8	n/a	n/a	n/a	n/a	42.8	n/a	U
S10V000664		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<48.2	n/a	n/a	n/a	n/a	48.2	n/a	U
S10V000664		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<56.0	n/a	n/a	n/a	n/a	56.0	n/a	U
S10V000664		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S10V000664		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S10V000664		O	83-32-9	Acenaphthene	ug/kg	76.0	<176	<17.1	n/a	n/a	n/a	74.8	17.1	n/a	U
S10V000664		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U
S10V000664		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000666		A	7440-24-6	Strontium	ug/g	97.1	<3.00E-03	46.1	35.9	41.0	24.9	84.9	0.299	n/a	
S10V000666		A	7440-32-6	Titanium	ug/g	93.0	<5.00E-03	1.19E+03	1.16E+03	1.18E+03	2.48	236	0.498	n/a	
S10V000666		A	7440-62-2	Vanadium	ug/g	94.6	<5.00E-03	45.7	44.8	45.3	1.97	116	0.498	n/a	
S10V000666		A	7440-65-5	Yttrium	ug/g	88.8	<2.00E-03	7.17	7.26	7.21	1.27	89.8	0.199	n/a	
S10V000666		A	7440-66-6	Zinc	ug/g	94.0	<5.00E-03	36.7	36.8	36.8	0.390	112	0.498	n/a	
S10V000666		A	7440-67-7	Zirconium	ug/g	92.1	<5.00E-03	10.8	10.7	10.7	1.20	28.4	0.498	n/a	b
S10V000666		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<3.38E-05	<3.24E-05	n/a	n/a	n/a	3.38E-05	n/a	U
S10V000666		A	TH-232	Thorium-232	ug/g	108	<6.80E-05	3.09	2.70	2.89	13.4	115	8.20E-04	n/a	
S10V000666		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	9.81E-05	8.67E-05	9.24E-05	12.4	n/a	4.83E-05	n/a	J
S10V000666		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.41E-05	<2.31E-05	n/a	n/a	n/a	2.41E-05	n/a	U
S10V000666		A	15117-96-1	Uranium-235	ug/g	97.3	<4.40E-06	3.79E-03	3.23E-03	3.51E-03	16.0	98.5	5.31E-05	n/a	
S10V000666		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.93E-05	<1.85E-05	n/a	n/a	n/a	1.93E-05	n/a	U
S10V000666		A	13994-20-2	Neptunium-237	ug/g	106	<2.12E-05	<2.56E-04	<2.45E-04	n/a	n/a	103	2.56E-04	n/a	U
S10V000666		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.544	0.503	0.523	7.83	103	2.65E-03	n/a	
S10V000666		A	7440-22-4	Silver	ug/g	104	<1.60E-03	0.0582	0.0622	0.0602	6.66	99.8	0.0193	n/a	J
S10V000666		A	7440-43-9	Cadmium	ug/g	102	<6.00E-04	0.0672	0.0730	0.0701	8.27	101	7.24E-03	n/a	J
S10V000667		S	14798-03-9	Ammonium	ug/g	91.4	<0.0120	1.53	n/a	n/a	n/a	n/a	0.469	n/a	J
S10V000668		A	14133-76-7	Technetium-99	ug/g	99.1	<1.50E-04	<1.71E-03	<1.73E-03	n/a	n/a	101	1.71E-03	n/a	U
S10V000668		A	SN-117	Tin-117	ug/g	108	<5.50E-03	<0.0629	<0.0634	n/a	n/a	52.9	0.0629	n/a	Ub
S10V000668		A	15832-50-5	Tin-126	ug/g	n/a	<1.00E-04	<1.14E-03	<1.15E-03	n/a	n/a	n/a	1.14E-03	n/a	Ub
S10V000669		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<2.10E-07	n/a	n/a	n/a	n/a	2.10E-07	n/a	U
S10V000669		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<5.26E-07	n/a	n/a	n/a	n/a	5.26E-07	n/a	U
S10V000669		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<2.10E-07	n/a	n/a	n/a	n/a	2.10E-07	n/a	U
S10V000669		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.52E-07	n/a	n/a	n/a	n/a	2.52E-07	n/a	U
S10V000669		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.52E-07	n/a	n/a	n/a	n/a	2.52E-07	n/a	U
S10V000670		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<3.38E-07	n/a	n/a	n/a	n/a	3.38E-07	n/a	U
S10V000671		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.43E-05	n/a	n/a	n/a	n/a	1.43E-05	n/a	U
S10V000671		E	15758-45-9	Selenium-79 UJ	uCi/g	n/a	<7.37E-07	<1.38E-06	n/a	n/a	n/a	n/a	1.38E-06	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KP9
Sample Depth: 39-41

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000824			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.20	n/a	n/a	n/a	n/a	n/a	n/a	
S10V001180	W		14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	<3.54E-06	n/a	n/a	n/a	n/a	3.54E-06	n/a	U
S10V001180	W		10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	3.15E-06	n/a	n/a	n/a	n/a	2.47E-06	115.972	J
S10V001216	A		7440-36-0	Antimony	ug/g	99.4	<0.0100	0.122	n/a	n/a	n/a	n/a	9.83E-03	n/a	B
S10V001734	WV		14133-76-7	Technetium-99	ug/g	107	<4.00E-06	<4.17E-06	n/a	n/a	n/a	n/a	4.17E-06	n/a	U
S10V003308	A		7440-38-2	Arsenic	ug/g	88.8	<8.40E-03	2.29	2.31	2.30	0.991	75.6	0.0837	n/a	
S10V003308	A		7440-43-9	Cadmium	ug/g	102	<1.80E-03	0.0685	0.0640	0.0662	6.90	108	0.0120	n/a	J
S10V003308	A		7439-92-1	Lead	ug/g	94.1	<3.00E-03	3.41	3.28	3.34	3.74	104	0.0299	n/a	
S10V003308	A		7782-49-2	Selenium	ug/g	108	<0.0270	<0.269	<0.270	n/a	n/a	116	0.269	n/a	U
S10V003308	A		7440-28-0	Thallium	ug/g	98.0	<4.00E-04	0.0816	0.0753	0.0785	8.03	101	7.98E-03	n/a	

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

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5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000408			%WATERA	%WATER-APD	%	n/a	n/a	3.350	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000408			57-12-5	Cyanide	ug/g	88.8	<0.0370	<3.08	n/a	n/a	n/a	n/a	3.08	n/a	U
S10V000408			7439-97-6	Mercury	ug/g	103	<1.00E-04	<8.41E-03	n/a	n/a	n/a	98.8	8.41E-03	n/a	U
S10V000408			PH	pH	unitless	n/a	n/a	8.73	8.75	8.74	0.229	n/a	0.0100	n/a	
S10V000408			18496-25-8	Sulfide	ug/g	94.7	<0.180	7.21	7.91	7.56	9.16	101	7.17	n/a	J
S10V000672			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.10E-05	1.89E-05	1.50E-05	53.1	n/a	6.01E-06	36.08	J
S10V000672			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.98E-07	<3.78E-07	n/a	n/a	n/a	2.98E-07	n/a	U
S10V000672			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<8.02E-07	<9.81E-07	n/a	n/a	n/a	8.02E-07	n/a	U
S10V000672			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.54E-07	<5.08E-07	n/a	n/a	n/a	3.54E-07	n/a	U
S10V000672			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.27E-06	<1.98E-06	n/a	n/a	n/a	1.27E-06	n/a	U
S10V000672			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<9.56E-07	<1.27E-06	n/a	n/a	n/a	9.56E-07	n/a	U
S10V000672			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<5.03E-07	<6.62E-07	n/a	n/a	n/a	5.03E-07	n/a	U
S10V000672			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	7.72E-07	1.34E-06	1.06E-06	54.1	n/a	5.60E-07	23.60	c
S10V000672			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<9.20E-06	<1.25E-05	n/a	n/a	n/a	9.20E-06	n/a	U
S10V000672			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<3.16E-06	<4.38E-06	n/a	n/a	n/a	3.16E-06	n/a	U
S10V000672			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.56E-07	<2.16E-07	n/a	n/a	n/a	2.56E-07	n/a	U
S10V000673		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	63.8	<77.4	<77.0	n/a	n/a	n/a	66.7	77.0	n/a	U
S10V000673		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S10V000673		O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.3	<38.1	<37.9	n/a	n/a	n/a	80.7	37.9	n/a	U
S10V000673		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.8	n/a	n/a	n/a	n/a	43.8	n/a	U
S10V000673		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S10V000673		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S10V000673		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.4	n/a	n/a	n/a	n/a	53.4	n/a	U
S10V000673		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S10V000673		O	83-32-9	Acenaphthene	ug/kg	67.9	<17.6	<17.5	n/a	n/a	n/a	70.7	17.5	n/a	U
S10V000673		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S10V000673		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S10V000673		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000675		A	7440-24-6	Strontium	ug/g	97.1	<3.00E-03	36.1	n/a	n/a	n/a	n/a	0.300	n/a	
S10V000675		A	7440-32-6	Titanium	ug/g	93.0	<5.00E-03	862	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-62-2	Vanadium	ug/g	94.6	<5.00E-03	36.8	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-65-5	Yttrium	ug/g	88.8	<2.00E-03	5.04	n/a	n/a	n/a	n/a	0.200	n/a	
S10V000675		A	7440-66-6	Zinc	ug/g	94.0	<5.00E-03	33.8	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000675		A	7440-67-7	Zirconium	ug/g	92.1	<5.00E-03	5.85	n/a	n/a	n/a	n/a	0.500	n/a	b
S10V000675		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<3.35E-05	n/a	n/a	n/a	n/a	3.35E-05	n/a	U
S10V000675		A	TH-232	Thorium-232	ug/g	108	<6.80E-05	3.60	n/a	n/a	n/a	n/a	8.13E-04	n/a	
S10V000675		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.44E-04	n/a	n/a	n/a	n/a	4.78E-05	n/a	J
S10V000675		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.39E-05	n/a	n/a	n/a	n/a	2.39E-05	n/a	U
S10V000675		A	15117-96-1	Uranium-235	ug/g	97.3	<4.40E-06	4.03E-03	n/a	n/a	n/a	n/a	5.26E-05	n/a	
S10V000675		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.91E-05	n/a	n/a	n/a	n/a	1.91E-05	n/a	U
S10V000675		A	13994-20-2	Neptunium-237	ug/g	106	<2.12E-05	<2.53E-04	n/a	n/a	n/a	n/a	2.53E-04	n/a	U
S10V000675		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.565	n/a	n/a	n/a	n/a	2.63E-03	n/a	
S10V000675		A	7440-22-4	Silver	ug/g	104	<1.60E-03	0.0466	n/a	n/a	n/a	n/a	0.0191	n/a	J
S10V000675		A	7440-43-9	Cadmium	ug/g	102	<6.00E-04	0.0629	n/a	n/a	n/a	n/a	7.17E-03	n/a	J
S10V000676		S	14798-03-9	Ammonium	ug/g	99.9	<0.0120	1.05	0.883	0.968	17.6	103	0.477	n/a	J
S10V000677		A	14133-76-7	Technetium-99	ug/g	99.1	<1.50E-04	1.96E-03	n/a	n/a	n/a	n/a	1.79E-03	n/a	J
S10V000677		A	SN-117	Tin-117	ug/g	108	<5.50E-03	<0.0656	n/a	n/a	n/a	n/a	0.0656	n/a	Ub
S10V000677		A	15832-50-5	Tin-126	ug/g	n/a	<1.00E-04	<1.19E-03	n/a	n/a	n/a	n/a	1.19E-03	n/a	Ub
S10V000678		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<2.08E-07	<2.00E-07	n/a	n/a	n/a	2.08E-07	n/a	U
S10V000678		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<5.19E-07	<5.00E-07	n/a	n/a	n/a	5.19E-07	n/a	U
S10V000678		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<2.08E-07	<2.00E-07	n/a	n/a	n/a	2.08E-07	n/a	U
S10V000678		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.14E-07	<2.16E-07	n/a	n/a	n/a	2.14E-07	n/a	U
S10V000678		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.14E-07	<2.16E-07	n/a	n/a	n/a	2.14E-07	n/a	U
S10V000679		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<4.68E-07	<4.42E-07	n/a	n/a	n/a	4.68E-07	n/a	U
S10V000680		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.39E-05	<1.92E-05	n/a	n/a	n/a	1.39E-05	n/a	U
S10V000680		E	15758-45-9	Selenium-79 UJ	uCi/g	n/a	<7.37E-07	<1.84E-06	<1.57E-06	n/a	n/a	n/a	1.84E-06	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR2
Sample Depth: 139-141

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000827			BULKDENSI	Bulk Density	g/mL	n/a	n/a	1.98	n/a	n/a	n/a	n/a	n/a	n/a	
S10V000828			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.03	n/a	n/a	n/a	n/a	n/a	n/a	
S10V000829			BULKDENSI	Bulk Density	g/mL	n/a	n/a	1.95	n/a	n/a	n/a	n/a	n/a	n/a	
S10V001181	W		14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	<2.55E-06	n/a	n/a	n/a	n/a	2.55E-06	n/a	U
S10V001181	W		10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	3.30E-06	n/a	n/a	n/a	n/a	1.49E-06	121.89	J
S10V001217	A		7440-36-0	Antimony	ug/g	99.4	<0.0100	0.169	n/a	n/a	n/a	n/a	9.64E-03	n/a	B
S10V001735	WV		14133-76-7	Technetium-99	ug/g	107	<4.00E-06	1.57E-04	n/a	n/a	n/a	n/a	3.79E-06	n/a	
S10V003309	A		7440-38-2	Arsenic	ug/g	88.8	<8.40E-03	2.90	n/a	n/a	n/a	n/a	0.0839	n/a	
S10V003309	A		7440-43-9	Cadmium	ug/g	102	<1.80E-03	0.0690	n/a	n/a	n/a	n/a	0.0120	n/a	J
S10V003309	A		7439-92-1	Lead	ug/g	94.1	<3.00E-03	13.8	n/a	n/a	n/a	n/a	0.0300	n/a	
S10V003309	A		7782-49-2	Selenium	ug/g	108	<0.0270	<0.270	n/a	n/a	n/a	n/a	0.270	n/a	U
S10V003309	A		7440-28-0	Thallium	ug/g	98.0	<4.00E-04	0.0788	n/a	n/a	n/a	n/a	7.99E-03	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR5
Sample Depth: 163-165

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000409			%WATERA	%WATER APD	%	n/a	n/a	2.680	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000409			57-12-5	Cyanide	ug/g	88.8	<0.0370	<2.81	<2.68	n/a	n/a	75.8	2.81	n/a	U
S10V000409			7439-97-6	Mercury	ug/g	103	<1.00E-04	<8.96E-03	n/a	n/a	n/a	n/a	8.96E-03	n/a	U
S10V000409			PH	pH	unitless	n/a	n/a	8.65	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000409			18496-25-8	Sulfide	ug/g	81.2	<0.180	<7.13	<7.14	n/a	n/a	86.7	7.13	n/a	U
S10V000681			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.46E-05	n/a	n/a	n/a	n/a	5.16E-06	24.67	
S10V000681			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.43E-07	n/a	n/a	n/a	n/a	2.43E-07	n/a	U
S10V000681			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<6.46E-07	n/a	n/a	n/a	n/a	6.46E-07	n/a	U
S10V000681			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.06E-07	n/a	n/a	n/a	n/a	3.06E-07	n/a	U
S10V000681			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.18E-06	n/a	n/a	n/a	n/a	1.18E-06	n/a	U
S10V000681			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.51E-07	n/a	n/a	n/a	n/a	8.51E-07	n/a	U
S10V000681			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.27E-07	n/a	n/a	n/a	n/a	4.27E-07	n/a	U
S10V000681			14913-50-9	Thallium-208	uCi/g	n/a	<2.94E-07	4.38E-07	n/a	n/a	n/a	n/a	3.25E-07	47.84	J
S10V000681			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	6.31E-07	n/a	n/a	n/a	n/a	4.02E-07	23.76	c
S10V000681			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<7.88E-06	n/a	n/a	n/a	n/a	7.88E-06	n/a	U
S10V000681			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.63E-06	n/a	n/a	n/a	n/a	2.63E-06	n/a	U
S10V000681			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.75E-07	n/a	n/a	n/a	n/a	2.75E-07	n/a	U
S10V000683		W	16984-48-8	Fluoride	ug/g	106	<1.61E-03	0.780	n/a	n/a	n/a	n/a	0.0163	n/a	
S10V000683		W	666-14-8	Glycolate	ug/g	102	<9.37E-03	<0.0949	n/a	n/a	n/a	n/a	0.0949	n/a	U
S10V000683		W	71-50-1	Acetate	ug/g	102	<6.04E-03	0.327	n/a	n/a	n/a	n/a	0.0612	n/a	J
S10V000683		W	12311-97-6	Formate	ug/g	105	<4.67E-03	0.288	n/a	n/a	n/a	n/a	0.0473	n/a	J
S10V000683		W	16887-00-6	Chloride	ug/g	104	<9.98E-03	8.45	n/a	n/a	n/a	n/a	0.101	n/a	
S10V000683		W	14797-65-0	Nitrite	ug/g	105	<0.0192	0.982	n/a	n/a	n/a	n/a	0.195	n/a	J
S10V000683		W	14808-79-8	Sulfate	ug/g	106	<0.0187	66.5	n/a	n/a	n/a	n/a	0.189	n/a	
S10V000683		W	338-70-5	Oxalate	ug/g	104	<0.0231	0.812	n/a	n/a	n/a	n/a	0.234	n/a	J
S10V000683		W	24959-67-9	Bromide	ug/g	106	<0.0580	<0.588	n/a	n/a	n/a	n/a	0.588	n/a	U
S10V000683		W	14797-55-8	Nitrate	ug/g	105	<0.0208	6.68	n/a	n/a	n/a	n/a	0.211	n/a	
S10V000683		W	14265-44-2	Phosphate	ug/g	104	<0.0167	0.412	n/a	n/a	n/a	n/a	0.169	n/a	J

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B23KR5
Sample Depth: 163-165

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000684		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	7.66E-05	n/a	n/a	n/a	n/a	4.12E-05	n/a	J
S10V000684		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	3.29E-05	n/a	n/a	n/a	n/a	2.06E-05	n/a	J
S10V000684		A	15117-96-1	Uranium-235	ug/g	97.3	<4.40E-06	3.98E-03	n/a	n/a	n/a	n/a	4.53E-05	n/a	
S10V000684		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.65E-05	n/a	n/a	n/a	n/a	1.65E-05	n/a	U
S10V000684		A	13994-20-2	Neptunium-237	ug/g	106	<2.12E-05	<2.18E-04	n/a	n/a	n/a	n/a	2.18E-04	n/a	U
S10V000684		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.555	n/a	n/a	n/a	n/a	2.27E-03	n/a	
S10V000684		A	7440-22-4	Silver	ug/g	104	<1.60E-03	0.0624	n/a	n/a	n/a	n/a	0.0165	n/a	J
S10V000684		A	7440-43-9	Cadmium	ug/g	102	<6.00E-04	0.0640	n/a	n/a	n/a	n/a	6.18E-03	n/a	
S10V000685		S	14798-03-9	Ammonium	ug/g	97.1	<0.0120	1.13	0.955	1.04	17.1	99.3	0.473	n/a	J
S10V000686		A	14133-76-7	Technetium-99	ug/g	99.1	<1.50E-04	1.76E-03	n/a	n/a	n/a	n/a	1.71E-03	n/a	J
S10V000686		A	SN-117	Tin-117	ug/g	108	<5.50E-03	<0.0628	n/a	n/a	n/a	n/a	0.0628	n/a	Ub
S10V000686		A	15832-50-5	Tin-126	ug/g	n/a	<1.00E-04	<1.14E-03	n/a	n/a	n/a	n/a	1.14E-03	n/a	Ub
S10V000687		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<1.98E-07	n/a	n/a	n/a	n/a	1.98E-07	n/a	U
S10V000687		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.94E-07	n/a	n/a	n/a	n/a	4.94E-07	n/a	U
S10V000687		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<1.98E-07	n/a	n/a	n/a	n/a	1.98E-07	n/a	U
S10V000687		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U
S10V000687		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U
S10V000688		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<4.92E-07	n/a	n/a	n/a	n/a	4.92E-07	n/a	U
S10V000689		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.40E-05	n/a	n/a	n/a	n/a	1.40E-05	n/a	U
S10V000689		E	15758-45-9	Selenium-79 UJ	uCi/g	n/a	<7.37E-07	<1.14E-06	n/a	n/a	n/a	n/a	1.14E-06	n/a	U
S10V000831			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.31	n/a	n/a	n/a	n/a	n/a	n/a	
S10V001182		W	14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	<2.57E-06	n/a	n/a	n/a	n/a	2.57E-06	n/a	U
S10V001182		W	10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	4.37E-06	n/a	n/a	n/a	n/a	2.50E-06	85.179	J
S10V001218		A	7440-36-0	Antimony	ug/g	99.4	<0.0100	0.159	n/a	n/a	n/a	n/a	9.74E-03	n/a	B
S10V001736		WV	14133-76-7	Technetium-99	ug/g	107	<4.00E-06	<3.78E-06	n/a	n/a	n/a	n/a	3.78E-06	n/a	U
S10V003310		A	7440-38-2	Arsenic	ug/g	88.8	<8.40E-03	2.80	n/a	n/a	n/a	n/a	0.0840	n/a	
S10V003310		A	7440-43-9	Cadmium	ug/g	102	<1.80E-03	0.0682	n/a	n/a	n/a	n/a	0.0120	n/a	J
S10V003310		A	7439-92-1	Lead	ug/g	94.1	<3.00E-03	5.41	n/a	n/a	n/a	n/a	0.0300	n/a	

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b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000410			%WATERA	%WATER-APD	%	n/a	n/a	4.720	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000410			57-12-5	Cyanide	ug/g	88.8	<0.0370	<2.80	n/a	n/a	n/a	n/a	2.80	n/a	U
S10V000410			7439-97-6	Mercury	ug/g	103	<1.00E-04	0.0681	n/a	n/a	n/a	n/a	8.38E-03	n/a	J
S10V000410			PH	pH	unitless	n/a	n/a	8.67	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V000410			18496-25-8	Sulfide	ug/g	81.2	<0.180	<7.21	n/a	n/a	n/a	n/a	7.21	n/a	U
S10V000690			13966-00-2	Potassium-40	uCi/g	n/a	<7.29E-06	1.26E-05	n/a	n/a	n/a	n/a	5.54E-06	29.69	
S10V000690			10198-40-0	Cobalt-60	uCi/g	99.3	<2.87E-07	<2.74E-07	n/a	n/a	n/a	n/a	2.74E-07	n/a	U
S10V000690			14234-35-6	Antimony-125	uCi/g	n/a	<7.84E-07	<7.47E-07	n/a	n/a	n/a	n/a	7.47E-07	n/a	U
S10V000690			10045-97-3	Cesium-137	uCi/g	99.7	<3.71E-07	<3.42E-07	n/a	n/a	n/a	n/a	3.42E-07	n/a	U
S10V000690			14683-23-9	Europium-152	uCi/g	n/a	<1.61E-06	<1.40E-06	n/a	n/a	n/a	n/a	1.40E-06	n/a	U
S10V000690			15585-10-1	Europium-154	uCi/g	n/a	<9.14E-07	<8.96E-07	n/a	n/a	n/a	n/a	8.96E-07	n/a	U
S10V000690			14391-16-3	Europium-155	uCi/g	n/a	<4.78E-07	<4.70E-07	n/a	n/a	n/a	n/a	4.70E-07	n/a	U
S10V000690			15092-94-1	Lead-212	uCi/g	n/a	<4.24E-07	4.82E-07	n/a	n/a	n/a	n/a	4.80E-07	42.70	Jc
S10V000690			14274-82-9	Thorium-228	uCi/g	n/a	<8.12E-06	<8.71E-06	n/a	n/a	n/a	n/a	8.71E-06	n/a	U
S10V000690			15065-10-8	Thorium-234	uCi/g	n/a	<2.54E-06	<2.86E-06	n/a	n/a	n/a	n/a	2.86E-06	n/a	U
S10V000690			15046-84-1	Iodine-129	uCi/g	106	<2.36E-07	<2.24E-07	n/a	n/a	n/a	n/a	2.24E-07	n/a	U
S10V000691		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	76.2	<77.4	<75.0	n/a	n/a	n/a	79.3	75.0	n/a	U
S10V000691		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<97.5	n/a	n/a	n/a	n/a	97.5	n/a	U
S10V000691		O	121-14-2	2,4-Dinitrotoluene	ug/kg	102	<38.1	<36.9	n/a	n/a	n/a	106	36.9	n/a	U
S10V000691		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<42.6	n/a	n/a	n/a	n/a	42.6	n/a	U
S10V000691		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S10V000691		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<55.7	n/a	n/a	n/a	n/a	55.7	n/a	U
S10V000691		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S10V000691		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S10V000691		O	83-32-9	Acenaphthene	ug/kg	83.7	<17.6	<17.0	n/a	n/a	n/a	94.3	17.0	n/a	U
S10V000691		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S10V000691		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U
S10V000691		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.9	n/a	n/a	n/a	n/a	39.9	n/a	U

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
J - Estimated
b - MS/MSD Outside Range
c - RPD Outside Range

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
~~S10V000693~~		~~A~~	~~7440-24-6~~	~~Strontium~~	~~ug/g~~	~~97.1~~	~~<3.00E-03~~	~~30.3~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~0.300~~	~~n/a~~	
S10V000693		A	7440-32-6	Titanium	ug/g	93.0	<5.00E-03	1.52E+03	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-62-2	Vanadium	ug/g	94.6	<5.00E-03	60.0	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-65-5	Yttrium	ug/g	88.8	<2.00E-03	7.29	n/a	n/a	n/a	n/a	0.200	n/a	
S10V000693		A	7440-66-6	Zinc	ug/g	94.0	<5.00E-03	52.7	n/a	n/a	n/a	n/a	0.500	n/a	
S10V000693		A	7440-67-7	Zirconium	ug/g	92.1	<5.00E-03	10.2	n/a	n/a	n/a	n/a	0.500	n/a	b
S10V000693		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	3.19E-05	n/a	n/a	n/a	n/a	2.99E-05	n/a	BJ
S10V000693		A	TH-232	Thorium-232	ug/g	108	<6.80E-05	2.63	n/a	n/a	n/a	n/a	7.26E-04	n/a	
S10V000693		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	5.14E-05	n/a	n/a	n/a	n/a	4.27E-05	n/a	J
S10V000693		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	2.77E-05	n/a	n/a	n/a	n/a	2.13E-05	n/a	J
S10V000693		A	15117-96-1	Uranium-235	ug/g	97.3	<4.40E-06	3.35E-03	n/a	n/a	n/a	n/a	4.69E-05	n/a	
S10V000693		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.71E-05	n/a	n/a	n/a	n/a	1.71E-05	n/a	U
S10V000693		A	13994-20-2	Neptunium-237	ug/g	106	<2.12E-05	<2.26E-04	n/a	n/a	n/a	n/a	2.26E-04	n/a	U
S10V000693		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.446	n/a	n/a	n/a	n/a	2.35E-03	n/a	
S10V000693		A	7440-22-4	Silver	ug/g	104	<1.60E-03	0.0337	n/a	n/a	n/a	n/a	8.54E-03	n/a	J
S10V000693		A	7440-43-9	Cadmium	ug/g	102	<6.00E-04	0.0377	n/a	n/a	n/a	n/a	3.20E-03	n/a	
S10V000694		S	14798-03-9	Ammonium	ug/g	97.1	<0.0120	4.24	n/a	n/a	n/a	n/a	0.471	n/a	J
S10V000695		A	14133-76-7	Technetium-99	ug/g	99.1	<1.50E-04	1.66E-03	n/a	n/a	n/a	n/a	1.60E-03	n/a	J
S10V000695		A	SN-117	Tin-117	ug/g	108	<5.50E-03	<0.0587	n/a	n/a	n/a	n/a	0.0587	n/a	Ub
~~S10V000695~~		~~A~~	~~15832-50-5~~	~~Tin-126~~	~~ug/g~~	~~n/a~~	~~<1.00E-04~~	~~<1.07E-03~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~1.07E-03~~	~~n/a~~	~~Ub~~
S10V000696		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.15E-07	<2.00E-07	n/a	n/a	n/a	n/a	2.00E-07	n/a	U
S10V000696		E	14596-10-2	Americium-241	uCi/g	100	<5.39E-07	<4.99E-07	n/a	n/a	n/a	n/a	4.99E-07	n/a	U
S10V000696		E	15510-73-3	Curium-242	uCi/g	n/a	<2.15E-07	<2.00E-07	n/a	n/a	n/a	n/a	2.00E-07	n/a	U
S10V000696		E	PU-239/240	Plutonium-239/240	uCi/g	94.1	<2.75E-07	<2.29E-07	n/a	n/a	n/a	n/a	2.29E-07	n/a	U
S10V000696		E	13981-16-3	Plutonium-238	uCi/g	n/a	<2.75E-07	<2.29E-07	n/a	n/a	n/a	n/a	2.29E-07	n/a	U
S10V000697		E	SR-89/90	Strontium-89/90	uCi/g	96.2	<4.45E-07	<6.40E-07	n/a	n/a	n/a	n/a	6.40E-07	n/a	U
S10V000698		E	13981-37-8	Nickel-63	uCi/g	108	<2.44E-05	<1.23E-05	n/a	n/a	n/a	n/a	1.23E-05	n/a	U
S10V000698		E	15758-45-9	Selenium-79 UJ	uCi/g	n/a	<7.37E-07	<1.57E-06	n/a	n/a	n/a	n/a	1.57E-06	n/a	U

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C Farm WMC 2010-1
Data Summary Report

Sample Group: 20100213
Core Number: C7670
Customer Sample ID: B25ND7
Sample Depth: 220-224

LS
5-12-2011

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001183		W	14762-75-5	Carbon-14	uCi/g	93.5	<1.73E-07	<2.89E-06	n/a	n/a	n/a	92.8	2.89E-06	n/a	U
S10V001183		W	10028-17-8	Tritium	uCi/g	94.2	<4.07E-06	<4.06E-06	n/a	n/a	n/a	n/a	4.06E-06	n/a	U
~~S10V001221~~		~~A~~	~~7440-36-0~~	~~Antimony~~	~~ug/g~~	~~99.4~~	~~<0.0100~~	~~0.247~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~9.39E-03~~	~~n/a~~	
S10V001737		WV	14133-76-7	Technetium-99	ug/g	107	<4.00E-06	<3.87E-06	n/a	n/a	n/a	n/a	3.87E-06	n/a	U
S10V003311		A	7440-38-2	Arsenic	ug/g	88.8	<8.40E-03	2.59	n/a	n/a	n/a	n/a	0.0831	n/a	
S10V003311		A	7440-43-9	Cadmium	ug/g	102	<1.80E-03	0.0946	n/a	n/a	n/a	n/a	0.0119	n/a	J
S10V003311		A	7439-92-1	Lead	ug/g	94.1	<3.00E-03	3.75	n/a	n/a	n/a	n/a	0.0297	n/a	
S10V003311		A	7782-49-2	Selenium	ug/g	108	<0.0270	<0.267	n/a	n/a	n/a	n/a	0.267	n/a	U
~~S10V003311~~		~~A~~	~~7440-28-0~~	~~Thallium~~	~~ug/g~~	~~98.0~~	~~<4.00E-04~~	~~0.0578~~	~~n/a~~	~~n/a~~	~~n/a~~	~~n/a~~	~~7.91E-03~~	~~n/a~~	~~J~~

NA = Not Analyzed, ND = Not Detected

B - Found in Blank
U - Less Than Detection Limit
a - LCS Outside Range
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b - MS/MSD Outside Range
c - RPD Outside Range

Appendix 4

Laboratory Narrative and Chain-of-Custody Documentation

222-S LABORATORY

FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7670 IN SUPPORT OF RCRA SOIL CHARACTERIZATION

1.0 INTRODUCTION

This final report presents the results for the samples taken from Waste Management Area C between April 15, 2010 and May 11, 2010. The samples were analyzed in accordance with RPP-PLAN-40564, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C* (FSAP); RPP-PLAN-38777, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C* (SAP); ATL-MP-1011, *ATL Quality Assurance Project Plan for 222-S Laboratory* (QAPP); SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*; and the additional guidance given by the client's point of contact.

Because the 222-S Laboratory facility was designed to analyze hazardous and complex tank waste samples, most SW-846 test methods performed at the 222-S Laboratory contain deviations that are listed in an appendix in the analytical procedures. All other known deviations or variances from SW-846 are documented in this narrative. The following attachments are included in this report.

Attachment 1	Data Summary Report
Attachment 2	Sample Breakdown Diagrams
Attachment 3	Holding Time Report
Attachment 4	Additional Organic Analyses QC Results
Attachment 5	Tentatively Identified Compounds (TIC) for Organic Analyses
Attachment 6	Geological Report
Attachment 7	Characterization Change Notices (CCN) and Correspondence
Attachment 8	Receipt Paperwork

2.0 SAMPLE RECEIPT AND BREAKDOWN

2.1 SAMPLE RECEIPT

A total of nine core intervals and two surface grab samples from core hole C7670 along with eight field blanks and eight trip blanks were received by the 222-S Laboratory between April 15, 2010 and May 11, 2010. The samples were delivered in a cooler with ice or, in the case of the volatile organic samples, in a freezer. The temperatures of the temperature blanks were measured and recorded on the sample receipt check list and/or the chain of custody form.

2.2 SAMPLE BREAKDOWN

The laboratory received each core interval as a set of volatile organic analysis (VOA) samples and three liner samples when complete core recovery was obtained. The VOA samples were made from the shoe section of each core interval following SW-846 5035. The liner samples from each core interval were extruded, described, and composited by the Washington River Protection Solutions, Inc. (WRPS) geologist. The geologist's report is included in Attachment 6. Provided sufficient samples existed, the composite for each core interval was analyzed as described in the SAP and FSAP. Five core intervals (I002, I003, I004, I008, and I009) had less than full recovery (see Attachment 2 and Attachment 8). Interval I004 was extruded and composited in the normal manner. Interval I002 was combined with I003 to form a single composite. Interval I003 was taken immediately below I002 (see Attachment 7, CCN-WMAC-005). Interval I008 was combined with I009 to form a single composite. Interval I009 was taken immediately below I008 (see Attachment 7, CCN-WMAC-006). The surface samples were received as a single grab in a 500-mL jar and a set of VOA samples.

WRPS shipped subsamples of the composites to Test America Laboratories, Inc. (TAL) in St Louis, Missouri and Knoxville, Tennessee to be analyzed for dibutyl and monobutyl phosphate, total petroleum hydrocarbons (diesel and gasoline range), ethylene glycol, chlorinated pesticides, and polychlorinated biphenyls (Aroclors and congeners). TAL subsequently subcontracted the monobutyl and dibutyl phosphate analyses to Southwest Research Institute. The results of these analyses will be released in the final WRPS report.

3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results for those analytes requested in the SAP and FSAP. Secondary analytes are only reported if detected. The TIC from gas chromatography-mass spectrometry (GC/MS) analysis of semivolatile organic compounds (SVOC) is presented in Attachment 5. In addition to the required isotopes, all isotopes with positive gamma energy analysis (GEA) results were reported.

The "Det Limit" column in Attachment 1 contains the method detection limit (MDL) for non-radionuclide analyses, or the minimum detectable activity for radionuclides.

In Attachment 1, the column labeled "A#" indicates the aliquot class or the method used for sample preparation before analysis. For solid samples, the aliquot classes are defined as follows:

"A" indicates samples that were prepared by SW-846 3050B.

"E" indicates samples that were prepared by a strong acid digest.

"O" indicates samples that were extracted for organic analysis.

"S" indicates samples that were prepared by a distillation.

"W" indicates samples that were prepared by a standard water digest.

"WV" indicates samples that were prepared by a "Vadose" water digest.

Samples without a letter identifier in the "A#" column were analyzed directly with no separate preparation or with sample preparation performed as a part of the procedure steps.

The "Qual Flags" column in Attachment 1 contains data qualifier flags that are defined as follows:

> "B" is used to indicate that the analyte was detected in the method or preparation blank and in the sample, and the result for the blank was greater than 5% of the reported sample result.
>
> "J" indicates that the reported result should be considered an estimate because it is below the quantitation limit. The "J" flag is applied to sample concentrations that are greater than the MDL but less than the quantitation limit or sample activity with a counting uncertainty greater than 30%.
>
> "N" indicates a TIC which has been named.
>
> "T" indicates a TIC.
>
> "U" indicates that the reported result is less than the calculated detection limit.
>
> "a" indicates that the laboratory control sample (LCS) was outside of the specified range in the QAPP or SAP.
>
> "b" indicates that the matrix spike (MS) was outside of the specified range in the QAPP or SAP.
>
> "c" indicates that the relative percent difference (RPD) between the sample and the duplicate is greater than 30%.

Manual calculations using rounded results from the Data Summary Report (Attachment 1) or result calculation forms may differ slightly from the actual results derived from the raw data.

3.1 SAMPLE DIGESTIONS

3.1.1 Radiochemistry Strong Acid Digestion

Strong acid digestions with a hot plate for the heat source were performed using a mixture of concentrated nitric and hydrochloric acids. For each digest, approximately 1 to 10 g of sample was digested depending on the analysis being performed. The digestate was then filtered and diluted to a final volume. This digestion was used for all radiochemical analyses except ^{3}H, ^{14}C, and ^{129}I. This digestion is a leach of the acid soluble species only.

3.1.2 SW-846 3050B - Acid Digestion-Heating Block

This acid digestion follows SW-846 3050B using a heating block and nitric and hydrochloric acids. An aliquot of 0.25 g or 5 g of sample was digested. All heating-block digestions were filtered and diluted to a final volume of 50 mL. In soil, this digestion is a leach of the acid soluble species only. This digestion was used for all inductively coupled plasma/mass spectrometry (ICP/MS) and inductively coupled plasma/atomic emission spectroscopy (ICP/AES) analyses except for ^{99}Tc and isotopic tin (^{117}Sn and ^{126}Sn) analyses. The digestion is

modified for the ^{99}Tc analysis by using only nitric acid. This is done to eliminate the possibility of the formation a zinc-chlorine ion pair of mass 99. The laboratory believes this ion, when present, is responsible for low level false positives. A separate digestion for antimony was prepared using additional hydrochloric acid, as recommended in SW-846.

3.1.3 Water Digestion

A water digestion or leach was prepared for the anions by ion chromatography, ^{14}C, and ^{3}H analyses using approximately 0.25 to 4 g of sample diluted to 25 mL. Sonification was used, and the leachate was then filtered. In soil, this digestion is a leach of the water soluble species only.

3.1.4 Vadose Water Digestion

A 70-g sample of soil was leached using a ratio of one part water to one part soil. To maintain a one-to-one ratio, the amount of water added to the sample was adjusted based on the percent moisture of the soil. The slurries were placed on a shaker table for about 1 hour. They were then transferred to a centrifuge tube and centrifuged at 4,000 rpm for 30 minutes. An unfiltered aliquot was set aside for alkalinity analysis. The remainder was filtered using a disposable vacuum filtration system. The filtrates were transferred to a clean bottle and then analyzed for anions using IC nitrate analysis (intervals I005 to I010) and ^{99}Tc by ICP/MS analysis.

3.2 INORGANIC ANALYSES

3.2.1 Cyanide

The cyanide analysis by distillation and spectrophotometry was performed on direct subsamples of the grab samples and liner composite samples. All analyses met the SW-846 holding time of 14 days. There was no required reporting limit in the SAP for cyanide. The target detection limit was 0.5 µg/g, which is at least an order of magnitude lower than the current laboratory method (lachet micro-distillation) can reach.

Batches 19042 and 19150: There were no notable quality control (QC) issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19456: The low level standard (LLS) was recovered outside the ±25% requirement at 65%. Since the results were well below the MDL, there was no affect on data quality. Eleven samples were analyzed between the initial calibration blank and the next calibration verification standard (CCV). This did not meet the requirement in the QAPP; however, since there was no affect on the results, the data was accepted. Reanalysis would have exceeded the holding time for some samples in the batch.

3.2.2 Sulfide

Sulfide analysis by distillation and ion selective electrode was performed on direct subsamples of the grab samples and liner composite samples. All analyses met the SW-846 holding time of 7 days. There was no required reporting limit in the SAP for sulfide. The target detection limit was 5 µg/g. All sample results had adjusted MDLs of approximately 7 µg/g. There were no

notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.3 pH Analysis

The pH analysis was performed on the grab samples and liner composite samples. These analyses met all QC requirements in the FSAP, SAP, and QAPP. The FSAP lists a pH holding time requirement of "as soon as possible." All pH measurements were taken immediately after the water leach was performed, but the sampling to analysis date varied from 2 to 14 days (see Attachment 3). There is no correlation between pH results and days to analysis, and the results fall within an expected range for alkaline soils. This indicates that the variation in time has no apparent effect on the results. The lapse time of up to 6 days for the analysis was due to the time taken between sampling and extrusion/compositing of the liners; most samples fall in to this range. Three samples were analyzed between day 11 and day 14. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.4 Mercury

Analysis for mercury by cold-vapor graphic furnace/atomic absorption was performed on digested subsamples of the grab samples and liner composite samples. All results met the QC requirements in the FSAP, SAP, and QAPP. All analyses met the holding time of 28 days. This analysis met the required and target detection limits.

3.2.5 Ion Chromatography – Ammonium

Analysis for ammonium was performed using a distillation preparation of the grab samples and liner composite samples. The SAP lists an administrative holding time of 7 days. The laboratory believes that after distillation and preservation, the holding time is 28 days, based on U.S. Environmental Protection Agency drinking water and waste water holding times for preserved samples. There is no regulatory holding time limit promulgated for ammonium in soil. All samples met the SAP holding times. These analyses met the target detection limit listed in the SAP. There was no required reporting limit in the SAP or FSAP for ammonium.

Batches 19076, 19246, and 19420: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19029: Ammonium was detected in the preparation blanks at a level below the quantitation limit and above the MDL. Ammonium was also detected in the samples at a similar level; these results have been flagged with a "B". Since all results were below the quantitation limit, reanalysis was not required.

3.2.6 Ion Chromatography – Anions and Small Organic Acids

Ion chromatography analysis was performed on a standard water digest of subsamples from all grab samples and soil composite samples. The laboratory met all of the required and target detection limits. All analyses were within the applicable holding time. The sample spikes used for the standard water digestions are predigestion spikes. Due to the large aliquot size (approximately 70 g) used in the Vadose water digestion, the spikes were post-digestion.

Batches 19058, 19147, and 19446: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 22897: The preparation blank contained nitrite below the quantitation limit, but at greater than 5% of the sample results. All sample results have been flagged with a "B". Since the sample and blank results were below the quantitation level, reanalysis was not required. The RPD for acetate exceeded the ±30% requirement in the SAP and FSAP; however, since the sample result was below the quantitation limit, this criterion does not apply.

3.2.7 Inductively Coupled Plasma/Atomic Emission Spectroscopy

The ICP/AES analysis was performed on an acid-digest (SW-846 3050B) of all grab samples and liner composite samples. The ICP/AES analysis was unable to obtain the required detection limit for antimony, arsenic, cadmium, selenium, silver, and thallium. These elements have been reported from separate ICP/MS analyses. Lead is also reported for some samples. Total uranium has not been reported by the ICP/AES analysis since it cannot meet the required detection limits in the SAP. The isotopic uranium analysis by ICP/MS met the required detection limit for ^{238}U, which is essentially total uranium and can be used in place of ICP/AES total uranium. This does not affect the overall data usability. For all other metals reported by ICP/AES, all target and required detection limits were met. All analysis were within the SW-846 six month holding time.

Batch 19876: The ICSAB had results above the quantitation limits for neodymium and palladium. This indicates that spectral interference was occurring. Neodymium and palladium results were not reported due to the high probability that they were the result of interferences. Results slightly above the MDL for lead, manganese, and tungsten in the ICSA indicate a possible high bias for these elements. However, the recoveries of these elements in the ISCAB were within the ±20% requirement; this would indicate no significant bias. Low levels of iron, zinc, and calcium were detected in the preparation blank, but reanalysis was not required since these levels were less than 5% of the lowest sample result. The MS recoveries for aluminum, calcium, iron, magnesium, and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the sample results for these elements exceeded the matrix spike level by more than four times, this criterion does not apply. The MS recoveries for sodium, silicon, and zirconium exceeded the ±25% requirement. All sample results in this batch for sodium, silicon, and zirconium have been flagged with "b". The exact cause for these failures is not known, but it should be noted that this digestion is not one that should be used to report silicon from siliceous material. It should be noted that silicon is not listed with other elements in SW-846 3050B, section 1.1, under "Scope and Application" for the method. Since none of these were primary analytes, reanalysis was not required. The mid-run continuing calibration blank (CCB) demonstrated a zirconium result slightly above the MDL and below the quantitation level. The blank result was more that 5% of the sample results, and a "B" flag was applied. Since the blank result was below the quantitation limit, reanalysis was not required.

Batch 20066: The MS recovery for potassium exceeded the ±25% requirement in the FSAP and SAP. Since the sample result exceeded the matrix spike level by more than four times, this criterion does not apply.

Batch 20874: The ICSAB had a result above the quantitation limits for neodymium. This indicates that spectral interference was occurring. Neodymium results were not reported due to the high probability that they were the result of this interference. Results slightly above the MDL for cadmium and manganese in the ICSA indicate a possible high bias for these elements. However, the recoveries of cadmium and manganese in the ISCAB were within the ±20% requirement; this indicates no significant bias was present. Low levels of iron and calcium were detected in the preparation blank, but reanalysis was not required since these levels were less than 5% of the lowest sample result. The MS recoveries for aluminum, calcium, iron, magnesium, manganese, potassium, and sodium silicon and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the sample results for these elements exceeded the matrix spike level by more than four times, this criterion does not apply. The RPD for nickel exceeded the ±30% requirement at 51%. All sample results in this batch for nickel have been flagged with "c". The laboratory believes this exceedance may have also been caused by sample inhomogeneity. Additionally, silicon experienced LCS failures and reanalysis was not required for this secondary element. It should be noted that silicon is not listed with other elements in SW-846 3050B, section 1.1, under "Scope and Application" for the method.

3.2.8 Inductively Coupled Plasma/Mass Spectroscopy

The ICP/MS actinide and trace metal analyses were performed on the standard SW-846 3050 acid digestion of all grab samples and liner composite samples. The ICP/MS ^{126}Sn and ^{99}Tc analysis was performed on the sample digest without the addition of the hydrochloric acid. Hydrochloric acid is not used for ^{99}Tc analysis because of the potential formation of a ZnCl ion pair with mass 99. ICP/MS trace metal analysis for antimony was perform on the same digest with additional hydrochloric acid, which is required to keep antimony in solution. In addition to these acid digestions, ICP/MS ^{99}Tc analysis was performed on a vadose water digest.

Direct is the most accurate type of calibration; however, standard material is not commercially available for all the isotopes of interest. Concentrations of those isotopes without available standards are estimated based on the instrument's mass-response curve, which is generated by using the intensity/concentration relationship for the available isotope standards. Results estimated in this manner are designated "semi-quantitative."

Table 1. Inductively Coupled Plasma-Mass Spectroscopy Standards and Spikes

Standard Type	Analytes Analyzed
Initial calibration verification (nondigested)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Acid digest standard (laboratory control standard)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Predigest spike (MS)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Post-digest spike	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
No standard or spike of either type	^{126}Sn, ^{230}Th, ^{233}U, ^{234}U, ^{236}U

3.2.8.1 Technetium-99 and Tin-126

The required detection limit listed in the SAP for ^{99}Tc was met. The target detection limit for ^{99}Tc was not met. There were no required or target detection limits for ^{126}Sn listed in the SAP. The SAP lists a holding time of 6 months for isotopic analytes. All samples were analyzed within the holding time.

Because there is no available source for ^{126}Sn, ^{117}Sn is used to monitor the chemical recovery for this analysis. Though not specifically requested in the SAP, ^{117}Sn is reported for the LCS and MS in order to demonstrate method accuracy and presence of possible matrix interference.

Batch 19814: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 20169: The matrix spike recovered ^{117}Sn outside the ±25% required in the QAPP and SAP at 59%. These samples were initially analyzed in batch 19814 with a similar results. This would indicate that there is a matrix interference for tin when spiked at these levels. All sample results in the batch have been flagged with a “b”.

Batch 20677: The matrix spike recovered ^{117}Sn outside the ±25% required in the QAPP and SAP at 59%. Since the post-digestion spike passed and the previous batch (20169) was reanalyze without improvement of the MS recovery, matrix interference was inferred and reanalysis was not performed. If tin is spiked at a level similar to the one used for the ICPAES analysis, the recoveries are generally within the required ±25%. However, this not appropriate for ^{126}Sn analysis. Results for this analysis should be considered biased low, but the laboratory believes that even sample levels of 10 µg/Kg should be easily detected. All sample results in the batch have been flagged with a “b”.

3.2.8.2 Technetium-99 (Vadose Water Digest)

The required and target detection limits listed in the SAP for ^{99}Tc were met. The SAP lists a holding time of 6 months for isotopic analytes. All holding times were met. A predigestion matrix is not prepared as part of this procedure. This is partially due to the large size of the aliquot—approximately 70 g. All other standard QC requirements were meet for this batch.

3.2.8.3 Actinides

The required and target detection limits were met for all isotopes and in all samples. The SAP lists the holding time for isotopic analytes as 6 months. All samples were analyzed within the holding time.

Batch 19661: The ending LLS for ^{232}Th exceeded the ±30% requirement at 134%. This could indicate a high bias for ^{232}Th results near the LLS level. However, the lowest sample result for ^{232}Th was approximately 100 times the LLS level and the data quality was not affected. The low level MS for ^{232}Th failed at 62%. It is the laboratory’s opinion that this failure is due to inhomogeneity (RPD of 18%) and the ^{232}Th result in the sample being nearly four times the spike amount. If the duplicate result is used to calculate the MS recovery, it is within the ±25% requirement. A higher level spike was also analyzed; it passed at 100%. This was discussed with

the client, and the laboratory was instructed to report the low level MS (see details discussed in Attachment 7).

Batch 20266: Th-230 was detected in the preparation blank at the MDL. However, this was more than 5% of one sample in the batch, which had a result slightly above the MDL. This sample was flagged with a "B". The ending LLS for ^{235}U exceeded the ±30% requirement at 53%. This could indicate a low bias for ^{235}U results near the LLS level. However, the lowest sample result for ^{235}U was approximately 25 times the LLS level and the data quality was not affected.

Batch 23864: Th-230 was detected in the preparation blank just above the MDL. However, this was more than 5% of the sample, which had a result above the MDL, but below the quantitation limit. This sample was flagged with a "B".

3.2.8.4 Trace Metals

Antimony, arsenic, cadmium, selenium, silver, and thallium were analyzed by ICP/MS to obtain the required detection limits in the SAP. Lead was also reported in four samples. Except for the required detection limit for selenium, all required and target detection limits were met or the sample results were above the quantitation limit, and the sample detection limit criteria do not apply. The required detection limit for selenium was approximately an order of magnitude below the detection limit obtained by using ICP/MS. The laboratory does not anticipate reaching this detection limit for future projects. The reporting limit for selenium ranged from 0.3 µg/g to 0.6 µg/g depending on the matrix interference encountered during the analysis. SW-846 lists the holding time of metals as 6 months. All samples were analyzed within the holding time except for sample B23KP9 (S10V003308), which was reanalyzed for arsenic one day into the 7th month. The laboratory does not believe the result was affected.

Batch 20363 and 23807: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19915: Two of the LLSs for selenium exceeded the ±30% requirement at 64% and 67%. This could indicate a low bias for selenium results near the LLS level. However, since the selenium signal was well below the MDL, the data quality was not affected.

Batch 20171: Thallium was detected in the preparation blank below the quantitation limit. The blank result was approximately 30% of the sample results, and a "B" flag was applied. Since the blank result was below the quantitation limit and the all sample results were below the required detection limit, reanalysis was not required.

Batch 20590: The first CCB had a result for antimony slightly above the MDL. All affected samples have been flagged with a "B". Since the blank result was below the quantitation limit, reanalysis was not required. The duplicate RPD for antimony was outside the ±30% requirement in the SAP and FSAP at 37%. The laboratory believes this was a result of sample inhomogeneity. Additionally, the sample result was well below the required detection limit. With customer agreement (see Attachment 7), all results were flagged with "c" and reported.

Batch 23628: The closing LLSs for selenium exceeded the ±30% requirement at 152%. This could indicate a high bias for selenium results near the LLS level. However, since the selenium signal was well below the MDL, the data quality was not affected.

3.3 RADIOCHEMICAL ANALYSIS

The holding time listed in the SAP for radioactive isotopes is 6 months. The FSAP list the holding time as "none." SW-846 does not address holding times for radiochemical analytes. All radiochemical analyses met the 6-month holding time listed in the SAP. With the exception of the ^{14}C and ^{3}H analyses, tracers and spikes are added prior to the digestion. The laboratory is investigating the possibility of performing predigestion spikes for the ^{3}H and ^{14}C analyses.

3.3.1 Gamma Energy Analysis

GEA was performed directly on approximately 60 mL of soil from all grab samples and liner composite samples. The SAP requires the reporting of all isotopes with positive results above the minimum detectable activity (MDA); therefore, isotopes in addition to those required in the SAP were report when detected. The GEA analysis met all of the required detection limits in the SAP. The laboratory was unable to meet any of the target detection limits.

Batch 19658: The RPD for ^{212}Pb and ^{40}K exceeded the ±30% requirement in the SAP and FSAP. Since relative error for ^{40}K exceeded 30%, the result is considered to be below the quantification limit and this criterion does not apply. The ^{212}Pb result was above the quantification level, and a "c" has been applied to the results. However, since ^{212}Pb is not a required analyte, reanalysis was not required.

3.3.2 Strontium-89/90

Strontium-89/90 analysis was performed on a strong acid digest of all grab samples and liner composite samples. All of the sample analyses met the required and target detection limits. The FSAP and SAP requested ^{90}Sr, not $^{89/90}Sr$, be reported. The 222-S Laboratory only performs the latter analysis. Since the half-life for ^{89}Sr is approximately 51 days and ^{89}Sr has not been produced at Hanford for years, $^{89/90}Sr$ is essentially ^{90}Sr. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.3 Tritium

The ^{3}H analysis by liquid scintillation counting (LSC) was performed on a water leach of all grab samples and liner composite samples. This method only measured the ^{3}H in the samples that could be dissolved in water. This analysis achieved the required and target detection limits in the FSAP. There were no notable issues with the ^{3}H batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.4 Selenium-79

The ^{79}Se analysis by LSC was performed on a strong acid digest of all grab samples and liner composite samples. The analysis achieved the target detection limit in the FSAP. No required

detection limit was listed. No standard is currently available for ^{79}Se. A cold carrier is used to monitor recovery and is measured gravimetrically. The ^{14}C LSC curve is used to determine the ^{79}Se results since their energies are similar.

Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%. There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.5 Carbon-14

The ^{14}C analysis by LSC was performed on a water leach of all grab samples and liner composite samples. The analysis achieved the required detection limit in the FSAP but exceeded the target detection limit. This analysis will only detect water soluble forms of ^{14}C. There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.6 Nickel-63

The ^{63}Ni analysis by LSC was performed on a strong acid digest of all grab samples and liner composite samples. The analysis achieved the required and target detection limits in the FSAP. There were no notable issues with these ^{63}Ni batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%.

3.3.7 Iodine-129

Analysis for ^{129}I by low energy GEA was performed on an iodine-specific fusion digest of all grab samples and liner composite samples. The required detection limit in the SAP was met. Four samples slightly exceeded the 2 pCi/g required detection limit with detection limits between 2.5 and 2.7 pCi/g. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.8 Americium-241, Curium-243/244, and Curium-242

Analysis for ^{241}Am, $^{243/244}$Cm, and ^{242}Cm by alpha energy analysis (AEA) was performed on a strong acid digest of all grab samples and liner composite samples. For this analysis, there were no notable issues and all QC requirements in the FSAP, SAP, and the QAPP were met. The required and target detection limits in the SAP were met. The SAP and FSAP requested ^{243}Cm and ^{244}Cm be reported separately. Since it is not possible to resolve these individual isotopes when using AEA, these isotopes have been report as $^{243/244}$Cm.

3.3.9 Plutonium-238 and Plutonium-239/240

Plutonium isotopic (^{238}Pu and $^{239/240}$Pu) analysis by AEA was performed on a strong acid digest of all grab samples and liner composite samples. For this analysis, there were no notable issues with any batches and all QC requirements in the FSAP, SAP, and the QAPP were met. The required and target detection limits in the SAP were met.

3.4 ORGANIC ANALYSES

3.4.1 Volatile Organic Analysis

The VOA by GC/MS was performed on all field samples by purge and trap. Field sampling methods, sample containers, and preservation methods followed SW-846 5035. The soil samples were delivered in a freezer, in pre-weighed VOA vials with magnetic stir bars and approximately 5 g of sample. After receipt, the VOA samples were stored in a freezer. For each sample interval, an additional high level sample preserved in methanol was also received. These were not used because none of the results for the frozen samples were above the calibration range. The exact weight of the sample and the tare weight of the VOA vials were recorded by sampling personnel and delivered with the samples. Eight field blanks and eight trip blanks were also received and analyzed. The samples were preserved with either HCl or H_2SO_4 to a pH < 2. All samples met the required holding times except for samples B23KN6 (S10V000368) and B23KN9 (S10V000369), which were placed in a refrigerator instead of a freezer. This reduces the holding time to 48 hours (see Attachment 3). Due to this taking place over a weekend, the sample storage error was not detected for approximately 90 hours. The samples were then properly stored and later analyzed.

The VOA analysis met the target and required detection limits in the SAP. The SAP and FSAP requested m-xylene and p-xylene be reported separately. Since it is not possible to resolve these individual compounds when performing VOA by SW-846 8260B, these compounds have been report as m+p xylene. The SAP and FSAP request that methanol be reported with this analysis; however, this compound is too polar to be purged and cannot be reported (see Attachment 7).

All field and trip blanks contained chloroform above the estimated quantification level. Since chloroform is a common chlorination byproduct, the laboratory believes the source of chloroform was the water used by sampling personnel to make the various blanks.

The laboratory method blanks generally contained a very low level of toluene, which was also present in the samples at a similar level. The blank contamination was usually just above the MDL and always below the quantitation limit. This contamination was 4 to 5 orders of magnitude below the required detection limit and 17 to 90 times less than the target detection limit. For these reasons, reanalysis was not necessary. “B” flags have been applied when appropriate. For analyses performed after these, toluene was only occasionally found in the blank. The laboratory is not sure of the source of the toluene, but it may be related to construction or maintenance activities.

All laboratory blanks for the liquid sample batches contained acetone at a level slightly below the quantitation level, based the low calibration. Some blanks were 30 to 50 times the MDL. Fortunately, the samples contained only a trace of acetone; most results were below the MDL and all were below the quantitation level. “B” flags have been applied when appropriate. For this reason, reanalysis was not required. The laboratory believes that this relatively high level of acetone in the method blanks was due to contamination in the hydrochloric acid used in the blanks. For analyses performed after these, acetone was only occasionally found in the blank and generally at a level below the quantitation level.

LCS, MS, and matrix spike duplicate (MSD) recoveries were compared against the laboratory's statistical process control (SPC) limits, as required by SW-846. The use of SPC limits is allowed in the FSAP, SAP, and QAPP.

Batch 18960: The method blank contained toluene as discussed above.

Batch 19080: The method blank contained acetone and toluene as discussed above.

Batch 19081: The method blank contained acetone and toluene as discussed above. The MS and MSD sample vials failed to purge, and no MS/MSD pair is contained in this batch. Since additional MS/MSD pairs exist for the field QC samples for this core hole, client requirements have been meet (see Attachment 7).

Batch 19123: The MS was recovered above the statistically determined limits for acetone, hexone, and 2-butanone. All sample result for hexone and 2-butanone were below the MDL, and the data usability was not affected. One sample had a result above the quantitation limit. This result should be considered biased high. Reanalysis was not performed due to the holding time. All results for these compounds have been flagged with a "b". The method blank contained toluene as discussed above.

Batch 19447: The LCS recovery for acetone was above the upper limit of 139% at 152%. Due to the holding time limitation, reanalysis was not performed. Since the result for acetone was below the quantitation limit and flagged with a "J", the data usability was not affected and reanalysis was unnecessary. The result has been flagged with an "a". The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 26%, which indicates a high bias for these compounds. Since the acetone result was below the quantitation level and the trans-1,2-dichloroethene was non-detect, the CCV was acceptable. The method blank contained acetone and toluene as discussed above.

Batch 19485: The LCS recovery for acetone was above the upper limit of 139% at 160%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were either below the MDL or below the quantitation limit and flagged with a "J", the data usability was not affected and reanalysis was unnecessary. The result has been flagged with an "a". The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 24% and 31%, respectively, which indicates a high bias for these compounds. Since the acetone results were below the MDL or below quantitation level and the trans-1,2-dichloroethene was non-detect, the CCV was acceptable. The method blank contained acetone and toluene as discussed above. The MS for 1-butanol failed low at 69%. Due to the holding time limitation, reanalysis was not performed. All sample results were below the MDL and have been flagged with a "b".

Batch 19486: The % difference for acetone and the % drift for trans-1,2-dichloroethene were high at 24% and 31%, respectively, which indicates a high bias for these compounds. Since the acetone and 1,2-Dichloroethene results were below the MDL, the CCV was acceptable. The LCS recovery for acetone was above the upper limit of 134% at 150%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were below the MDL, the data usability was not affected and reanalysis was unnecessary. All results for acetone in the batch have been flagged with "b".

Batch 19566: It is apparent from the following discussion that this batch should have been reanalyzed; however, due to a pending instrument outage and an expiring holding time, these are the only results available. With the exception of acetone, all QC failures indicate a high bias; the impact on the data is minimal. 2 Hexanone was detected in the sample and method blanks above the MDL and below the quantitation limit. The sample results have been flagged with a "B". Since the results were below the quantitation limit, reanalysis was not required. The MS failed high for acetone, 2-butanone, 2-hexanone, and hexone. The acetone and 2-hexanone results were above the MDL. All results have been flagged with a "b". Since the 2-hexanone result was below the quantitation limit and flagged with "J", this result was not affected. The acetone result was above the quantitation limit and should be considered biased high. A "J" flag has been applied to this result. The LCS for acetone failed high, again indicating a high bias, and the result has been flagged with an "a". Two CCVs were analyzed with this batch; the closing CCV was normal with only 2 compounds slightly above the ±20% requirement. However, the first CCV had six primary analytes above this requirement. As previously discussed, only acetone was affected by this high bias. The method blank contained toluene as discussed above.

Batch 19680: The LCS recovery for acetone was above the upper limit of 136% at 172%. Due to the holding time limitation, reanalysis was not performed. Since the results for acetone were below the quantitation limit or below the MDL and flagged with a "J" or "U", the data usability was not affected and reanalysis was unnecessary. The results have been flagged with an "a". The % difference for 2 hexanone was high at 21%, which indicates a high bias for these compounds. Since 2-hexanone was below the quantitation limit and is not a primary analyte, the CCV was acceptable. The method blank contained acetone as discussed above.

Batch 20082: The method blank contained m,p-xylene at a level slightly above the MDL. Since the sample result for this compound was below the MDL, the blank was acceptable. The method blank contained toluene as discussed above. The RPD between the MS and MSD exceeded the ±30% requirement at 67%. Since the sample result was 72.5 ug/kg, the blank result was below the MDL, and all other QC for acetone was acceptable, inhomogeneity is suspected. Reanalysis was not performed due to holding time expiration.

Batch 20256: The method blank contained acetone and toluene as discussed above.

3.4.2 Semivolatile Organic Analysis

The semivolatile organic analysis (SVOA) by GC/MS was performed on methylene chloride extractions of all grab samples and liner composite samples. All holding times were met.

The SVOA analysis met the required and target detection limits with two exceptions:

- The adjusted MDLs for cyclohexanone were above the 0.5 mg/kg target detection limit for most samples. This compound obtained detection limits between 0.5 mg/kg an 0.6 mg/kg.
- The adjusted MDLs for di-n-butyl-phthalate were above the target detection limit of 0.33 mg/kg. The analysis achieved a detection limit of between 0.5 mg/kg and 0.6 mg/kg for this compound.

The LCS, MS, and MSD recoveries were compared against the laboratory's SPC limits, as required by SW-846. The use of SPC limits is permitted in the FSAP, SAP, and QAPP.

The SAP and FSAP requested m-cresol and p- cresol be reported separately. Since it is not possible to resolve these individual compounds when performing SVOA by SW-846 8270C, these compounds have been report as m+p cresol.

Isobutanol is listed as a required volatile organic compound in the FSAP. Since it does not purge well, it was analyzed as using SVOA.

Batch 19182: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batches 19296 and 19488: Butylbenzylphthalate was detected in the method blank slightly above the MDL and below the quantitation limit. This compound was detected in the samples at a similar level and has been flagged with a "B". Since all results were below the quantitation level, reanalysis was not required and the blank is acceptable.

Batch 19779: The MS recovery for 4-Chloro-3-methylphenol was above the 103% upper limit at 108%. Since this compound was not detected in the sample, reanalysis was not required.

3.4.3 Tentatively Identified Compounds

Unassigned peaks or TICs were treated as follows. Standards were obtained and analyzed for each secondary analyte identified in the SAP. This data was accumulated in the Hanford library. Following analysis, the largest TICs, with instrument responses greater than 10% of the response of the nearest internal standard, were evaluated and compared to the Hanford library. The estimated concentration of these TICs was calculated using measured response factors from the Hanford library compound list.

After comparison to the Hanford library, remaining unknowns were compared to the National Institute of Standards and Technology's *HP Mass Spectral (compound) Libraries* (NIST 02). The estimated concentration of compounds identified in the NIST library was calculated based on an arbitrary response factor of 1.0. If the compounds were not identified as a result of this comparison, they were reported as "unknown." Summaries of the SVOA and VOA TICs from the field samples and method blanks are provided in Attachment 4. TICs that were found in the field samples and were present in the associated batch method blank have been flagged with "B".

4.0 PROCEDURES

Table 2 lists the analytical procedures used for analysis of the Area C samples.

Table 2. Analytical Procedures

Analysis	Preparation Method	Analysis Procedure
Inorganic Analyses		
Cyanide	LA-695-103, Rev. I-0, J-0 (SW-846 9010C)	LA-695-103, Rev. J-0 (SW-846 9014)

Analysis	Preparation Method	Analysis Procedure
Sulfide	LA-361-101, Rev. D-0 (SW-846 9030B)	LA-361-101, Rev. D-0 (SW-846 9215)
pH (solid)	LA-212-105, Rev. G-0 (SW-846 9045D)	LA-212-105, Rev. G-0 (SW-846 9045D)
pH (liquid)	Direct	LA-212-106, Rev. H-0 (SW-846 9040D)
Mercury – Cold Vapor Atomic Absorption	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)
Ammonia – IC	LA-544-112, Rev. E-0	LA-533-101, Rev. Q-0
Anions & Organic Acids – IC	LA-504-101, Rev. L-0	LA-533-115, Rev. J-0
Metals – ICP /AES	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-505-161, Rev. J-0-A (SW-846 6010C)
^{99}Tc, ^{126}Sn – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. F-1
^{99}Tc – ICP/MS	08-ATL-078 Vadose Water Digest	LA-506-103, Rev. A-0
Metals – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. E-0, F-1 LA-506-103, Rev. A-0 (SW-846 6020A)
Actinides – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-1-2, Rev. F-1 LA-506-103, Rev. A-0
Radiochemical Analyses		
GEA	Direct	LA-548-121, Rev. I-0
^{90}Sr – Separation/Beta counting (Solid)	LA-544-101, Rev. F-0	LA-220-103, Rev. J-0
^{90}Sr – Separation/Beta counting (Liquid)	LA-220-104, Rev. I-0	LA-220-104, Rev. I-0
^{3}H – LSC	LA-504-101, Rev. L-0	LA-218-111, Rev. G-0
^{14}C – LSC	LA-504-101, Rev. L-0	LA-348-104, Rev. H-0
^{79}Se – Separation/LSC	LA-544-101, Rev. F-0	LA-365-132, Rev. I-0
^{63}Ni – Separation/LSC	LA-544-101, Rev. F-0	LA-285-102, Rev. E-0
^{129}I – Separation/GEA	LA-378-105, Rev. C-0	LA-378-105, Rev. C-0
^{241}Am, $^{243/244, 242}$Cm – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
$^{239/240, 238}$Pu – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
Organic Analyses		
VOC – GC/MS	Direct	LA-523-118, Rev. G-O-A (SW-846 8260B)
SVOC – GC/MS	LA-523-138, Rev. F-0 (SW-846 3540C)	LA-523-135, Rev. C-0, D-0 (SW-846 8270C)

5.0 REFERENCES

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NIST 02, 2002, *HP Mass Spectral Libraries*, July 2002 Release, Hewlett-Packard Company, Palo Alto, California.

SW-846, 1986, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods,* Third Edition, as amended, U.S. Environmental Protection Agency, Washington, D.C.

RPP-PLAN-40564, 2009, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C,* Rev. 2, Washington River Protection Solutions, Inc.

RPP-PLAN-38777, 2009, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C*, Rev. 1, Washington River Protection Solutions, Inc.

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-032	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 1	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	surface	n/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MR0	WATER	4-15-10	1010
S10V000310			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	[illegible]	4/15/10 @1410

SPECIAL INSTRUCTIONS
cooler 11L
222S20100160

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	V10-002-022	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 1	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	Surface	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238F5	WATER	4-15-10	0925
S10V000320			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell		[signature]	4/15/10 @1410

SPECIAL INSTRUCTIONS
11c cooler
222S20100160

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	V10-003-055	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KN6	SOIL	4-15-10	1010	✓	✓	
S10V000368	Lo					
S10V000369	Hi					
DPR 379						
4-20-10						

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	B Tullock	4/15/10 @ 1410

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.

Freezer - 11c
Cooler 11c

22225201 0213

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	V10-003-054	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23K87	SOIL	4-15-10	1010	✓
S10V000390				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BCampbell	4-15-10 1410	D Tuttle	4/15/10 @ 1410
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

Cooler 1°C
Freezer -1°C

222S20100213

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	V10-003-053	PAGE 1 OF 1

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.**		
C7670 Surface	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	Surface	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	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23R25	SOIL	4-15-10	1010	✓
S10V000401				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	TM Gollock	4/15/10 @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

(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;

cooler 11c

22252010021 3

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	V10-003-058	PAGE 1 OF 1

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.**		
C7670 Surface Dup	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-000001	TFV2-09-00000	Surface Dup	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KN9	SOIL	4-15-10	1010	✓	✓
S10V000369	Lo				
S10V000380	Hi				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	D McCollock	4/15/10 @ 1410

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.

Freezer -11c
Cooler 11c

222S20100213

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	V10-003-057	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
C7670 Surface Dup	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** B-4-15-10 ~~B~~C N/9	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	Surface Dup		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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN8	SOIL	4-15-10	1010	✓
S10V000391				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	TM Estbek	4/15/10 @ 1410

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.

Coolers 11 C
Freezer 11 C

222S20100213

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	V10-003-056	PAGE 1 OF 1

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.**		
C7670 Surface Dup	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	Surface Dup	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	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN7	SOIL	4-15-10	1010	✓
S10V000402				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-15-10 1410	D Tuckett	4/15/10 @1410

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;

cooler 11 c

222S20100213

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	V10-002-033	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 2	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	5-7	n/a	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR1	WATER	4-20-10	1214	✓
510V000311				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	T McCollock	4/20/10 @1350

SPECIAL INSTRUCTIONS

2225 2010060

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-023	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 2	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	5-7	n/a	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238F6	WATER	4-20-10	1214	✓
510V000321				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	D Tuttle	4/20/10 @ 1350

SPECIAL INSTRUCTIONS

22262010016 0

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-060	PAGE 1 OF 1

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.**		
C7670 I001	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	5-7	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KN5	SOIL	4-20-10	1245	✓
510V000392				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	M Collock	4/20/10 @ 1350

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.

22252010021 3

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-061	PAGE 1 OF 1

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.**		
C7670 I001	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	5-7	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KN4	SOIL	4-20-10	1245	✓	✓	
S10V000370	Lo					
S10V000381	Hi					

CHAIN OF POSSESSION / **SIGN/PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-20-10 1350	B Tuteback	4/20/10 @ 1350

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.

222S20100213

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-059	PAGE 1 OF 1

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.**		
C7670 I001	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-00000	5-7	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)	2 BC 4-20-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238J9	SOIL	4-20-10	1245	✓
S10V000412				
S10V000413				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BCampbell	4-20-10 1350	Tretoffock	4/20/10 @ 1350
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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;

222S20100213

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-034	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 3	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
~~TFVZ~~ TSVZ-09-003	TFVZ-09-000001	10-12	N/A	GOVERNMENT VEHICLE	
SHIPPED TO BRC 4/22/10	**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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MR2	WATER	4/22/10	0830
S10V000312			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	4-22-10 1200	RKSteele	4-22-10 1200

SPECIAL INSTRUCTIONS

-0°C +B
RKS

222S20100160

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	V10-002-024	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 3	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	10-12	n/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP2	WATER	4-22-10	0820	✓
S10V000322				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RKSteele RKSteele	4-22-10 1200

SPECIAL INSTRUCTIONS
-0°C TB RK

222S20100160

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	V10-003-064	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	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	10-12	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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KP2	SOIL	4/22/10	0915	✓	✓	
S10V000371	Low Level VOA					
S10V000382	High Level VOA					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	RtBak RBtBak	4-22-10 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

** 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.

-12°C TB
RB

222S 20100213

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	V10-003-063	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-09-000001	10-12	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP1	SOIL	4/22/10	0915	✓
S10V000393	MeOH Blank			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Horte	4-22-10 1200	RH Hall RH Hall	4-22-10 1200

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.

-0 C TB
RHL

222S20100213

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	V10-003-062	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I002	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	10-12	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)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP0	SOIL	4/22/10	0915	✓
S10V000415				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	4-22-10 1200	R Rick Rickelle	4-22-10 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

** 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;

-0°C TO RK

222S 20100213

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	V10-003-065	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
HARRIS	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I003	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	12-14	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/Jars 500 ml
NO. OF CONTAINER(S)	3 BC 4-22-10 2
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP3	SOIL	4/22/10	945	✓
S10V000416	Liner A			
S10V000417	Shoe			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris 4-22-10	1200	RHTeal RHSteele 4-22-10	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

** 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;

α TB
RHTeal

222S 20100213

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		V10-003-070	PAGE 1 OF 1
COLLECTOR: HARRIS	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P
SAMPLING LOCATION: C7670 I004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-09-00000	ACTUAL SAMPLE DEPTH: 14-16	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A	

DATA TURNAROUND: 75 Days / 75 Days

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 <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	Gs	Gs	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B23KP8	SOIL	4/22/10	1055	✓	✓	
S10V000373	Low Level VOA					
S10V000384	High Level VOA					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	4-22-10 1200	[illegible]	4-22-10 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

** 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.

0°C TB RK
-12°C TB RK

222S20100213

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			V10-003-069	PAGE 1 OF 1
COLLECTOR Harvis	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7670 I004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO. TFV2-09-003	FIELD LOGBOOK NO. TFV2-09-000001	ACTUAL SAMPLE DEPTH 14-16	COA N/A	METHOD OF SHIPMENT Govt. 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	Cool~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP7	SOIL	4-22-10	1055	✓
S10V000395	MeOH Blank			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	4-22-10 1200	RHSteele	4-22-10 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

** 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.

0°CTB
RA

222S20100213

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	V10-003-068	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 I004	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	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~~ 2 BC 4-22-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KP6	SOIL	4-22-10	1055	J
S10V000821	Liner A			
S10V000822	Liner B			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	4-22-10 1200	RHSteele	4-22-10 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

** 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;

0°CTB
RKB

222S 20100213

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	V10-002-035	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Field Blank 4	WMA C Sampling for CMS - QC Sampling	V10-002

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVZ-09-003	TFVZ-09-000001	39' - 41'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR3	WATER	4-23-10	0855	✓
SDV000313				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RHSteele RHSteele	4-23-10 1150

SPECIAL INSTRUCTIONS

0°C TB RA

222S 20100160

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	V10-002-025	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Trip Blank 4	WMA C Sampling for CMS - QC Sampling	V10-002

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFV2-09-003	TFV2-09-000001	39' - 41'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP3	WATER	4-23-10	0855	✓
S10V000323				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RD Steele RD Steele	4-23-10 1150

SPECIAL INSTRUCTIONS

-0°C TS
RS

222S 20100160

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			V10-003-073	PAGE 1 OF 1
COLLECTOR: Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7670 I005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-~~000002~~ 000001	ACTUAL SAMPLE DEPTH: 39-41	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: RES 4/23/10 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	Cool <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3 ✓
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KR1	SOIL	4/23/10	0943	✓	✓
S10V000374	Low level				
S10V000385	High level				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RHTeale RHTeale	4-23-10 1150
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

-0°C TB RB / -7°C RB RB

222S20100213

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	V10-003-072	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.**		
C7670 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	39-41	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR0	SOIL BC 4-23-10 Liquid	4-23-10	0943	✓
S10V000396	MeOH			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BC_pbell	4-23-10 1150	RLSteele RLSteele	4-23-10 1150
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

OCTB
RK

222S 20100213

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	V10-003-071	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.**		
C7670 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	39-41	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	
B23KP9	SOIL	4-23-10	0943	✓
S10V000 824	Liner A			
825	Liner B			
826	Liner C			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	4-23-10 1150	RKSteele RKSteele	4-23-10 1150

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;

OC + B
-0
RK

222S 20100213

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	V10-002-036	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 5	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	139-141	n/a	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR4	WATER	5-4-10	0925	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-pbell	5-4-10 1215	RLSteele RLSteele	5-4-10 1215

SPECIAL INSTRUCTIONS

0°C TB

GRP# 222S20100160

Sample# S10V000314

omni pts ✓

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	V10-002-026	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 5	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	139-141	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MP4	WATER	5-4 ~~4-5~~ 10	0925
		B: 5-4-10	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell / B Campbell	5-4-10 1215	[illegible]	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

0 C TB

222S20100160
S10V000324

omni
DLV

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	V10-003-076	PAGE 1 OF 1

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.**		
C7670 I006	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	139-141	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 <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	Gs	Gs
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B23KR4	SOIL	5-4-10	1002	✓	✓
S10V000375	Lo				
386	Hi				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RL Bischoff DC-Bischoff	5-4-10 1215	RL Steele RL Steele	5-4-10 1215

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.

-0°C TB / -7°C TB
222S20100213
S10V000375
S10V000386

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	V10-003-075	PAGE 1 OF 1

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.**		
C7670 I006	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	139-141	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR3	SOIL	5-4-10	1002	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-4-10 1215	RHHart RHHart	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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.

-0 °C TB

222S20100213
S10V000397

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	V10-003-074	PAGE 1 OF 1

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.**		
C7670 I006	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	139'- 141'	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	
B23KR2	SOIL	5-4-10	1002	✓
S10V000 827	A			
828	B			
829	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-4-10 1215	RAHeels RASteele	5-4-10 1215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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;

0°C TB 222S20100213
S10V000 827 → 829 omit

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-037	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Field Blank 6	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	163-165	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR5	WATER	5-5-10	08:56	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-5-10 1130	R Steele R Steele	5-5-10 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

-1°C TB
R Steele

~~22252010213~~
~~510V000830 831, 832~~
R Steele 5.5.10
22252010016O
510V000315

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	V10-002-027	PAGE 1 OF 1

COLLECTOR Harris / Campbell	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐
SAMPLING LOCATION C7670 Trip Blank 6	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002	DATA TURNAROUND 75 Days / 75 Days
ICE CHEST NO. TFVZ-09-003	FIELD LOGBOOK NO. TFVZ-09-000001	ACTUAL SAMPLE DEPTH 163' - 165'	COA n/A	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	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP5	WATER	5-5-10	08:56	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5-5-10 1130	RHSteele RHSteele	5-5-10 1130

SPECIAL INSTRUCTIONS
1 °C TB
RHSteele

22252010016O
S10V000325

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	V10-003-079	PAGE 1 OF 1

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.**		
C7670 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	163 – 165	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 <-7C and >-20C	MEOH/Cool~4 C									
TYPE OF CONTAINER				Gs	Gs									
NO. OF CONTAINER(S)				5	3									
VOLUME				40mL	40mL									
SAMPLE ANALYSIS				VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);									
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**											
B23KR7	SOIL	5-5-10	1030	✓	✓									

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BCampbell	5.5.10 1130	RtSteele RtSteele	5.5.10 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

** 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°C TB
-8°C TB

222S20100213
S10V000376-LO
S10V000387-Hi

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	V10-003-078	PAGE 1 OF 1

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.**		
C7670 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	163-165	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR6	SOIL	5-5-10	1030	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-pbell	5-5-10 1130	RKSteele RKSteele	5-5-10 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

** 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°C TB
2225 20100213 RKSteele 5-5-10
510V000398

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-077	PAGE 1 OF 1

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.**		
C7670 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	163-165	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	
B23KR5	SOIL	5-5-10	1030	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	5.5.10 1130	RtSteele RtSteele	5.5.10 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;

-1°C TB
RK

222S20100213
510V000 830, 831, 832
A B C

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-038	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7670 Field Blank 7	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	220' - 222'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR6	WATER	5-7-10	11:30	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	R.L. Steele R.L. Steele	5-7-10 1300

SPECIAL INSTRUCTIONS
1°C TB
RK

GRP# 22252010160
SAM# S10V000316

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	V10-002-028	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 Trip Blank 7	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	220'-222'	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B23MP6	WATER	5-7-10	11:30
S10V000326			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	RKSteele RKSteele	5-7-10 1300

SPECIAL INSTRUCTIONS
1 °C TB
RK

20100160

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	V10-003-081	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 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-09-000001	5/13/10 5' ~~200'~~ 220' - 222'	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~4C
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR9	SOIL	5-7-10	1215	✓
S10V000399	Methanol Blk			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	5-7-10 1300	R.T. Steele R.T. Steele	5.7.10 1300

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 oc TB RK 20100213

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	V10-003-080	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7670 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-09-000001	220' - 222'	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)	~~1~~ 2 SAS 5-7-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KR8	SOIL	5-7-10	1215	✓
S10V000834	B			
835	C			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris, Dan Harris	5-7-10 1500	Rhetul etsteele	5-7-10 1300

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;

1 OC TB RK 20100213

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	V10-002-039	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
B. Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7670 Field Blank 8	WMA C Sampling for CMS - QC Sampling	V10-002 N/A

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVZ-09-003	TFVZ-09-000001	222-224	N/A	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MR7	WATER	5-11-10	1255	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BC-Campbell	5-11-10 1420	Rstedt	5/11/10 1420

SPECIAL INSTRUCTIONS

QC

GRP# 20100160
SAM# S10V000317

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	V10-002-029	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7670 Trip Blank 8	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	222-224	N/A	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
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23MP7	WATER	5-11-10	1255	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	5-11-10 1420	Richard R Steedg	5-11-10 1420

SPECIAL INSTRUCTIONS
λ °C TB
pK
GRP # 20100160
SAM # S10V000327

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	V10-003-085	PAGE 1 OF 1

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.**		
C7670 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-09-00000	222-224	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 <-7C and >-20C	MEOH/Cool~4 C		
TYPE OF CONTAINER	Gs	Gs		
NO. OF CONTAINER(S)	5	3		
VOLUME	40mL	40mL		
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);		

No sample RHSteele 5-11-10

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B23KT3	SOIL	5-11-10	1335	✓									

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	5-11-10 1420	RHSteele RHSteele	5-11-10 1420
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

** 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°C TD
-8°C RK

GRP# ~~20100213~~ RK
20100213
Sam# S10V000378

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	V10-003-083	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
C7670 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	222-224	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)	1 SAS 2 5-11-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B23KT1	SOIL	5-11-10	1335	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Cpbell C-pbell	5-11-10 1420	RL Steele RLSteele	5-11-10 1420

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;

λ°C TB

GRP# 20100213
SAM# S10V000836
" 837

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

Appendix 5

Data Validation Supporting Documentation

Appendix B - Radiochemical Data Validation Checklist

RADIOCHEMICAL DATA VALIDATION CHECKLIST

VALIDATION LEVEL:	A	B	(C)	D	E
PROJECT: WMA C (C7670)			DATA PACKAGE: VSR11-035		
VALIDATOR: Carl Schloesslin		LAB: 222-S Lab		DATE: 5-12-2011	
			SDG: 20100213		
ANALYSES PERFORMED					
Gross Alpha/Beta	Strontium-90 X	Technetium-99	Alpha Spectroscopy X	Gamma Spectroscopy X	Se-79 X
Total Uranium	Radium-22	Tritium X	C-14 X	I-129 X	Ni-63 X

SAMPLES/MATRIX Soil samples

B23R25, B23KN7, B238J9, B25CN2*, B23KP6, B23KP9, B23KR2, B23KR5, B25ND7**

*Sample B25CN2 is a composite of samples B23KP0 & B23KP3
**Sample B25ND7 is a composite of samples B23KR8 & B23KT1

1. Completeness ..... ☐ N/A

Technical verification forms present? ..... Yes (No) N/A

Comments: None

2. Initial Calibration (Levels D, E) ..... ☒ N/A

Instruments/detectors calibrated? ..... Yes No N/A

Initial calibration acceptable? ..... Yes No N/A

Standards NIST traceable? ..... Yes No N/A

Standards Expired? ..... Yes No N/A

Calculation check acceptable? ..... Yes No N/A

Comments:

3. Continuing Calibration (Levels D, E)..... ☒ N/A

Calibration checked within required frequency? ..... Yes No N/A

Calibration check acceptable? ..... Yes No N/A

Calibration check standards traceable? ..... Yes No N/A

Calibration check standards expired? ..... Yes No N/A

Calculation check acceptable?..... Yes No N/A

Comments:

4. Background Counts (Levels D, E) ..... ☒ N/A

Background Counts checked within required frequency? ..... Yes No N/A

Background Counts acceptable? ..... Yes No N/A

Calculation check acceptable?..... Yes No N/A

Comments:

5. Blanks (Levels B, C, D, E) ☐ N/A

Method blank analyzed within required frequency? (Yes) No N/A

Method blank results acceptable? (Yes) No N/A

Analytes detected in method blank? Yes (No) N/A

Field blank(s) analyzed? Yes No (N/A)

Field blank results acceptable? Yes No (N/A)

Analytes detected in field blank(s)? Yes No (N/A)

Transcription/Calculation Errors? (Levels D, E) Yes No (N/A)

Comments:

None

6. Laboratory Control Samples or Blank Spike Samples (Levels C, D, E) ☐ N/A

LCS /BSS analyzed within required frequency? Yes (No) N/A

LCS/BSS recoveries acceptable? (Yes) No N/A

LCS/BSS traceable? (Levels D,E) Yes No (N/A)

LCS/BSS expired? (Levels D,E) Yes No (N/A)

LCS/BSS levels correct? (Levels D,E) Yes No (N/A)

Transcription/Calculation Errors? (Levels D, E) Yes No (N/A)

Comments:

No LCS performed for Se-79.

7. Chemical Carrier Recovery (Levels C, D, E) ..... ☐ N/A

Chemical carrier added? ..... (Yes) No N/A

Chemical recovery acceptable? ..... (Yes) No N/A

Chemical carrier traceable? (Levels D, E) ..... Yes No (N/A)

Chemical carrier expired? (Levels D, E) ..... Yes No (N/A)

Transcription/Calculation errors? (Levels D, E) ..... Yes No (N/A)

Comments:

Note - For the Se-79 and Ni-63 soil batches a single dissolved sample was split for the two analyses. This means that the maximum chemical yield for these analyses is 50%.

8. Tracer Recovery (Levels C, D, E) ..... ☐ N/A

Tracer added? ..... (Yes) No N/A

Tracer recovery acceptable? ..... (Yes) No N/A

Tracer traceable? (Levels D, E) ..... Yes No (N/A)

Tracer expired? (Levels D, E) ..... Yes No (N/A)

Transcription/Calculation errors? (Levels D, E) ..... Yes No (N/A)

Comments: None

9. Matrix Spikes (Levels C, D, E)..... ☐ N/A

Matrix spike analyzed?..... (Yes) No N/A

Spike recoveries acceptable? ..... (Yes) No N/A

Spike source traceable? (Levels D, E) ..... Yes No (N/A)

Spike source expired? Levels D, E) ..... Yes No (N/A)

Transcription/Calculation Errors? (Levels D, E)..... Yes No (N/A)

Comments: None

10. Duplicates (Levels C, D, E) ..... ☐ N/A

Duplicates Analyzed at required frequency? ..... (Yes) No N/A

RPD Values Acceptable?..... (Yes) No N/A

Transcription/Calculation Errors? (Levels D, E)..... Yes No (N/A)

Comments: None

11. Field QC Samples (Levels C, D E) ..... ☐ N/A

Field duplicate sample(s) analyzed? ..... (Yes) No N/A

Field duplicate RPD values acceptable? ..... Yes (No) N/A

Field split sample(s) analyzed? ..... Yes No (N/A)

Field split RPD values acceptable? ..... Yes No (N/A)

Performance audit sample(s) analyzed? ..... Yes No (N/A)

Performance audit sample results acceptable? ..... Yes No (N/A)

Comments:

Field dups B23R25 & B23KN7: Cs-137 RPD = 33%, Ni-63 difference (3.74E-04 uCi/g) >2X the MDC (2X the MDC = 2.12E-05 uCi/g).

12. Holding Times (All levels)

Are sample holding times acceptable? ..... (Yes) No N/A

Comments: None

13. Results and Detection Limits (All Levels) ..... ☐ N/A

Results reported for all required sample analyses? ..... (Yes) No N/A

Results supported in raw data?(Levels D, E) ..... Yes No (N/A)

Results Acceptable? (Levels D, E) ..... Yes No (N/A)

Transcription/Calculation errors? (Levels D, E) ..... Yes No (N/A)

MDA's meet required detection limits? ..... (Yes) No N/A

Transcription/calculation errors? (Levels D, E) ..... Yes No (N/A)

Comments: None

Appendix 6

Additional Documentation Requested By Client

Holding Time Report: Radiochemistry

Sample	Method	Sample Date Time	Received Date	Analysis Date	Misse Holding Time
S10V000572	AMERICIUM	04/15/2010 10:10	04/15/2010 14:10	06/10/2010 14:20	N
S10V000625	AMERICIUM	04/15/2010 10:10	04/15/2010 14:10	06/10/2010 14:20	N
S10V000633	AMERICIUM	04/20/2010 12:45	04/20/2010 13:50	06/10/2010 14:20	N
S10V000642	AMERICIUM	04/22/2010 09:15	04/22/2010 12:00	06/10/2010 14:20	N
S10V000660	AMERICIUM	04/22/2010 10:55	04/23/2010 12:00	06/10/2010 14:20	N
S10V000669	AMERICIUM	04/23/2010 09:43	04/23/2010 11:50	06/10/2010 14:20	N
S10V000678	AMERICIUM	05/04/2010 10:02	05/04/2010 12:15	06/10/2010 14:20	N
S10V000687	AMERICIUM	05/05/2010 10:30	05/06/2010 11:30	06/10/2010 14:20	N
S10V000696	AMERICIUM	05/07/2010 12:15	05/12/2010 08:51	06/10/2010 14:20	N
S10V000577	CARBON-14	04/15/2010 10:10	04/15/2010 14:10	08/22/2010 14:00	N
S10V000629	CARBON-14	04/20/2010 12:45	04/20/2010 13:50	08/22/2010 14:00	N
S10V001175	CARBON-14	04/15/2010 10:10	04/15/2010 14:10	08/22/2010 14:00	N
S10V001178	CARBON-14	04/22/2010 09:15	04/22/2010 12:00	08/22/2010 14:00	N
S10V001179	CARBON-14	04/22/2010 10:55	04/23/2010 12:00	08/22/2010 14:00	N
S10V001180	CARBON-14	04/23/2010 09:43	04/23/2010 11:50	08/22/2010 14:00	N
S10V001181	CARBON-14	05/04/2010 10:02	05/04/2010 12:15	08/22/2010 14:00	N
S10V001182	CARBON-14	05/05/2010 10:30	05/06/2010 11:30	08/22/2010 14:00	N
S10V001183	CARBON-14	05/07/2010 12:15	05/07/2010 13:00	08/22/2010 14:00	N
S10V000571	GEA	04/15/2010 10:10	04/15/2010 14:10	05/26/2010 21:33	N
S10V000575	GEA	04/15/2010 10:10	04/15/2010 14:10	05/27/2010 03:07	N
S10V000623	GEA	04/20/2010 12:45	04/20/2010 13:50	05/27/2010 06:05	N
S10V000636	GEA	04/22/2010 09:15	04/22/2010 12:00	05/27/2010 08:52	N
S10V000654	GEA	04/22/2010 10:55	04/23/2010 12:00	05/27/2010 11:34	N
S10V000663	GEA	04/23/2010 09:43	04/23/2010 11:50	05/27/2010 14:51	N
S10V000672	GEA	05/04/2010 10:02	05/04/2010 12:15	05/27/2010 18:04	N
S10V000681	GEA	05/05/2010 10:30	05/06/2010 11:30	05/28/2010 00:19	N
S10V000690	GEA	05/07/2010 12:15	05/12/2010 08:51	05/28/2010 03:10	N
S10V000571	IODINE-129 in SOIL	04/15/2010 10:10	04/15/2010 14:10	06/10/2010 14:30	N
S10V000575	IODINE-129 in SOIL	04/15/2010 10:10	04/15/2010 14:10	06/10/2010 14:30	N
S10V000623	IODINE-129 in SOIL	04/20/2010 12:45	04/20/2010 13:50	06/10/2010 14:30	N
S10V000636	IODINE-129 in SOIL	04/22/2010 09:15	04/22/2010 12:00	06/10/2010 14:30	N
S10V000654	IODINE-129 in SOIL	04/22/2010 10:55	04/23/2010 12:00	06/10/2010 14:30	N
S10V000663	IODINE-129 in SOIL	04/23/2010 09:43	04/23/2010 11:50	06/10/2010 14:30	N
S10V000672	IODINE-129 in SOIL	05/04/2010 10:02	05/04/2010 12:15	06/10/2010 14:30	N
S10V000681	IODINE-129 in SOIL	05/05/2010 10:30	05/06/2010 11:30	06/10/2010 14:30	N

Holding Time Report: Radiochemistry

Sample	Method	Sample Date Time	Received Date	Analysis Date	Misse Holding Time
S10V000690	IODINE-129 in SOIL	05/07/2010 12:15	05/12/2010 08:51	06/10/2010 14:30	N
S10V000574	NICKEL-63	04/15/2010 10:10	04/15/2010 14:10	06/30/2010 15:15	N
S10V000627	NICKEL-63	04/15/2010 10:10	04/15/2010 14:10	06/30/2010 15:15	N
S10V000635	NICKEL-63	04/20/2010 12:45	04/20/2010 13:50	06/30/2010 15:15	N
S10V000644	NICKEL-63	04/22/2010 09:15	04/22/2010 12:00	06/30/2010 15:15	N
S10V000662	NICKEL-63	04/22/2010 10:55	04/23/2010 12:00	06/30/2010 15:15	N
S10V000671	NICKEL-63	04/23/2010 09:43	04/23/2010 11:50	06/30/2010 15:15	N
S10V000680	NICKEL-63	05/04/2010 10:02	05/04/2010 12:15	06/30/2010 15:15	N
S10V000689	NICKEL-63	05/05/2010 10:30	05/06/2010 11:30	06/30/2010 15:15	N
S10V000698	NICKEL-63	05/07/2010 12:15	05/12/2010 08:51	06/30/2010 15:15	N
S10V000572	PLUTONIUM	04/15/2010 10:10	04/15/2010 14:10	06/30/2010 11:00	N
S10V000625	PLUTONIUM	04/15/2010 10:10	04/15/2010 14:10	06/30/2010 11:00	N
S10V000633	PLUTONIUM	04/20/2010 12:45	04/20/2010 13:50	06/30/2010 11:00	N
S10V000642	PLUTONIUM	04/22/2010 09:15	04/22/2010 12:00	06/30/2010 11:00	N
S10V000660	PLUTONIUM	04/22/2010 10:55	04/23/2010 12:00	06/30/2010 11:00	N
S10V000669	PLUTONIUM	04/23/2010 09:43	04/23/2010 11:50	06/30/2010 11:00	N
S10V000678	PLUTONIUM	05/04/2010 10:02	05/04/2010 12:15	06/30/2010 11:00	N
S10V000687	PLUTONIUM	05/05/2010 10:30	05/06/2010 11:30	06/30/2010 11:00	N
S10V000696	PLUTONIUM	05/07/2010 12:15	05/12/2010 08:51	06/30/2010 11:00	N
S10V000574	SELENIUM-79	04/15/2010 10:10	04/15/2010 14:10	07/13/2010 11:50	N
S10V000627	SELENIUM-79	04/15/2010 10:10	04/15/2010 14:10	07/13/2010 11:50	N
S10V000635	SELENIUM-79	04/20/2010 12:45	04/20/2010 13:50	07/13/2010 11:50	N
S10V000644	SELENIUM-79	04/22/2010 09:15	04/22/2010 12:00	07/13/2010 11:50	N
S10V000662	SELENIUM-79	04/22/2010 10:55	04/23/2010 12:00	07/13/2010 11:50	N
S10V000671	SELENIUM-79	04/23/2010 09:43	04/23/2010 11:50	07/13/2010 11:50	N
S10V000680	SELENIUM-79	05/04/2010 10:02	05/04/2010 12:15	07/13/2010 11:50	N
S10V000689	SELENIUM-79	05/05/2010 10:30	05/06/2010 11:30	07/13/2010 11:50	N
S10V000698	SELENIUM-79	05/07/2010 12:15	05/12/2010 08:51	07/13/2010 11:50	N
S10V000573	STRONTIUM-90	04/15/2010 10:10	04/15/2010 14:10	06/16/2010 15:15	N
S10V000626	STRONTIUM-90	04/15/2010 10:10	04/15/2010 14:10	06/16/2010 15:15	N
S10V000634	STRONTIUM-90	04/20/2010 12:45	04/20/2010 13:50	06/16/2010 15:15	N
S10V000643	STRONTIUM-90	04/22/2010 09:15	04/22/2010 12:00	06/16/2010 15:15	N
S10V000661	STRONTIUM-90	04/22/2010 10:55	04/23/2010 12:00	06/16/2010 15:15	N
S10V000670	STRONTIUM-90	04/23/2010 09:43	04/23/2010 11:50	06/16/2010 15:15	N
S10V000679	STRONTIUM-90	05/04/2010 10:02	05/04/2010 12:15	06/16/2010 15:15	N

Holding Time Report: Radiochemistry

Sample	Method	Sample Date Time	Received Date	Analysis Date	Misse Holding Time
S10V000688	STRONTIUM-90	05/05/2010 10:30	05/06/2010 11:30	06/16/2010 15:15	N
S10V000697	STRONTIUM-90	05/07/2010 12:15	05/12/2010 08:51	06/16/2010 15:15	N
S10V001175	TRITIUM	04/15/2010 10:10	04/15/2010 14:10	07/08/2010 11:05	N
S10V001176	TRITIUM	04/15/2010 10:10	04/15/2010 14:10	07/08/2010 11:05	N
S10V001177	TRITIUM	04/20/2010 12:45	04/20/2010 13:50	07/08/2010 11:05	N
S10V001178	TRITIUM	04/22/2010 09:15	04/22/2010 12:00	07/08/2010 11:05	N
S10V001179	TRITIUM	04/22/2010 10:55	04/23/2010 12:00	07/08/2010 11:05	N
S10V001180	TRITIUM	04/23/2010 09:43	04/23/2010 11:50	07/08/2010 11:05	N
S10V001181	TRITIUM	05/04/2010 10:02	05/04/2010 12:15	07/08/2010 11:05	N
S10V001182	TRITIUM	05/05/2010 10:30	05/06/2010 11:30	07/08/2010 11:05	N
S10V001183	TRITIUM	05/07/2010 12:15	05/07/2010 13:00	07/08/2010 11:05	N

LABCORE Completed Batch Report for Batch# 00019658

Analyst: Painter, JimaLee

Book#: 120B64

Instrument: GEA03 B-1A

Method: GEA, LA-548-121 Rev/Mod I-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment:

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	STD	S1005260099		0 0			Cobalt-60	LIQUID	.00444	4.4080E-03		4.26	1.03E-04	uCi/mL	99.279	% Recovery	
1	STD	S1005260099		0 0			Cesium-137	LIQUID	.00483	4.8160E-03		5.42	1.03E-04	uCi/mL	99.71	% Recovery	
Sample Sequence 2																	
2	BLNK	S1005260100		0 0			Potassium-40	LIQUID		<7.2900E-06			7.29E-06	uCi/g			
2	BLNK	S1005260100		0 0			Cobalt-60	LIQUID		<2.8700E-07			2.87E-07	uCi/g			
2	BLNK	S1005260100		0 0			Antimony-125	LIQUID		<7.8400E-07			7.84E-07	uCi/g			
2	BLNK	S1005260100		0 0			Cesium-137	LIQUID		<3.7100E-07			3.71E-07	uCi/g			
2	BLNK	S1005260100		0 0			Europium-152	LIQUID		<1.6100E-06			1.61E-06	uCi/g			
2	BLNK	S1005260100		0 0			Europium-154	LIQUID		<9.1400E-07			9.14E-07	uCi/g			
2	BLNK	S1005260100		0 0			Europium-155	LIQUID		<4.7800E-07			4.78E-07	uCi/g			
2	BLNK	S1005260100		0 0			Thallium-208	LIQUID		<2.9400E-07			2.94E-07	uCi/g			
2	BLNK	S1005260100		0 0			Lead-210	LIQUID		<2.7000E-06			2.70E-06	uCi/g			
2	BLNK	S1005260100		0 0			Bismuth-212	LIQUID		<2.2600E-06			2.26E-06	uCi/g			
2	BLNK	S1005260100		0 0			Lead-212	LIQUID		<4.2400E-07			4.24E-07	uCi/g			
2	BLNK	S1005260100		0 0			Bismuth-214	LIQUID		<6.4500E-07			6.45E-07	uCi/g			
2	BLNK	S1005260100		0 0			Lead-214	LIQUID		<5.6900E-07			5.69E-07	uCi/g			
2	BLNK	S1005260100		0 0			Actinium-228	LIQUID		<1.1400E-06			1.14E-06	uCi/g			
2	BLNK	S1005260100		0 0			Thorium-228	LIQUID		<8.1200E-06			8.12E-06	uCi/g			
2	BLNK	S1005260100		0 0			Thorium-234	LIQUID		<2.5400E-06			2.54E-06	uCi/g			
Sample Sequence 3																	
3	SAMPLE	S10V000571		0 0			Potassium-40	SOLID	N/A	8.5900E-06		47.38	6.33E-06	uCi/g			J
3	SAMPLE	S10V000571		0 0			Cobalt-60	SOLID	N/A	<3.3300E-07			3.33E-07	uCi/g			U
3	SAMPLE	S10V000571		0 0			Antimony-125	SOLID	N/A	<1.0000E-06			1.00E-06	uCi/g			U
3	SAMPLE	S10V000571		0 0			Cesium-137	SOLID	N/A	7.5180E-06		7.59	3.73E-07	uCi/g			
3	SAMPLE	S10V000571		0 0			Europium-152	SOLID	N/A	<1.5900E-06			1.59E-06	uCi/g			U
3	SAMPLE	S10V000571		0 0			Europium-154	SOLID	N/A	<1.0200E-06			1.02E-06	uCi/g			U
3	SAMPLE	S10V000571		0 0			Europium-155	SOLID	N/A	<5.7200E-07			5.72E-07	uCi/g			U
3	SAMPLE	S10V000571		0 0			Lead-214	SOLID	N/A	1.0630E-06		26.21	8.95E-07	uCi/g			
3	SAMPLE	S10V000571		0 0			Thorium-228	SOLID	N/A	<1.0800E-05			1.08E-05	uCi/g			U
3	SAMPLE	S10V000571		0 0			Thorium-234	SOLID	N/A	<3.6500E-06			3.65E-06	uCi/g			U
Sample Sequence 4																	

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019658

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
4	SAMPLE	S10V000575		0 0			Potassium-40	SOLID	N/A	1.4560E-05		30.93	6.68E-06	uCi/g			J
4	SAMPLE	S10V000575		0 0			Cobalt-60	SOLID	N/A	<3.5400E-07			3.54E-07	uCi/g			U
4	SAMPLE	S10V000575		0 0			Antimony-125	SOLID	N/A	<9.7500E-07			9.75E-07	uCi/g			U
4	SAMPLE	S10V000575		0 0			Cesium-137	SOLID	N/A	5.4020E-06		8.93	4.06E-07	uCi/g			
4	SAMPLE	S10V000575		0 0			Europium-152	SOLID	N/A	<1.4900E-06			1.49E-06	uCi/g			U
4	SAMPLE	S10V000575		0 0			Europium-154	SOLID	N/A	<1.1000E-06			1.10E-06	uCi/g			U
4	SAMPLE	S10V000575		0 0			Europium-155	SOLID	N/A	<5.9100E-07			5.91E-07	uCi/g			U
4	SAMPLE	S10V000575		0 0			Lead-212	SOLID	N/A	5.3280E-07		47.66	6.25E-07	uCi/g			Jc
4	SAMPLE	S10V000575		0 0			Lead-214	SOLID	N/A	7.5080E-07		44.49	8.51E-07	uCi/g			J
4	SAMPLE	S10V000575		0 0			Thorium-228	SOLID	N/A	<1.1000E-05			1.10E-05	uCi/g			U
4	SAMPLE	S10V000575		0 0			Thorium-234	SOLID	N/A	<3.6600E-06			3.66E-06	uCi/g			U
Sample Sequence 5																	
5	SAMPLE	S10V000623		0 0			Potassium-40	SOLID	N/A	1.2180E-05		29.82	5.37E-06	uCi/g			
5	SAMPLE	S10V000623		0 0			Cobalt-60	SOLID	N/A	<3.0300E-07			3.03E-07	uCi/g			U
5	SAMPLE	S10V000623		0 0			Antimony-125	SOLID	N/A	<7.1900E-07			7.19E-07	uCi/g			U
5	SAMPLE	S10V000623		0 0			Cesium-137	SOLID	N/A	<3.3900E-07			3.39E-07	uCi/g			U
5	SAMPLE	S10V000623		0 0			Europium-152	SOLID	N/A	<1.1900E-06			1.19E-06	uCi/g			U
5	SAMPLE	S10V000623		0 0			Europium-154	SOLID	N/A	<8.7100E-07			8.71E-07	uCi/g			U
5	SAMPLE	S10V000623		0 0			Europium-155	SOLID	N/A	<4.5100E-07			4.51E-07	uCi/g			U
5	SAMPLE	S10V000623		0 0			Lead-214	SOLID	N/A	6.6420E-07		38.19	5.80E-07	uCi/g			J
5	SAMPLE	S10V000623		0 0			Thorium-228	SOLID	N/A	<8.3100E-06			8.31E-06	uCi/g			U
5	SAMPLE	S10V000623		0 0			Thorium-234	SOLID	N/A	<2.8500E-06			2.85E-06	uCi/g			U
Sample Sequence 6																	
6	SAMPLE	S10V000636		0 0			Potassium-40	SOLID	N/A	1.3420E-05		26.66	5.20E-06	uCi/g			
6	SAMPLE	S10V000636		0 0			Cobalt-60	SOLID	N/A	<2.3400E-07			2.34E-07	uCi/g			U
6	SAMPLE	S10V000636		0 0			Antimony-125	SOLID	N/A	<6.8600E-07			6.86E-07	uCi/g			U
6	SAMPLE	S10V000636		0 0			Cesium-137	SOLID	N/A	<3.3300E-07			3.33E-07	uCi/g			U
6	SAMPLE	S10V000636		0 0			Europium-152	SOLID	N/A	<1.1300E-06			1.13E-06	uCi/g			U
6	SAMPLE	S10V000636		0 0			Europium-154	SOLID	N/A	<8.1900E-07			8.19E-07	uCi/g			U
6	SAMPLE	S10V000636		0 0			Europium-155	SOLID	N/A	<4.3100E-07			4.31E-07	uCi/g			U
6	SAMPLE	S10V000636		0 0			Lead-212	SOLID	N/A	1.0200E-06		26.19	4.72E-07	uCi/g			c
6	SAMPLE	S10V000636		0 0			Lead-214	SOLID	N/A	9.3390E-07		34.89	6.24E-07	uCi/g			J
6	SAMPLE	S10V000636		0 0			Thorium-228	SOLID	N/A	<8.1000E-06			8.10E-06	uCi/g			U
6	SAMPLE	S10V000636		0 0			Thorium-234	SOLID	N/A	<2.6600E-06			2.66E-06	uCi/g			U
Sample Sequence 7																	
7	SAMPLE	S10V000654		0 0			Potassium-40	SOLID	N/A	1.0100E-05		33.70	5.11E-06	uCi/g			J
7	SAMPLE	S10V000654		0 0			Cobalt-60	SOLID	N/A	<2.5700E-07			2.57E-07	uCi/g			U
7	SAMPLE	S10V000654		0 0			Antimony-125	SOLID	N/A	<6.9300E-07			6.93E-07	uCi/g			U
7	SAMPLE	S10V000654		0 0			Cesium-137	SOLID	N/A	<3.2900E-07			3.29E-07	uCi/g			U
7	SAMPLE	S10V000654		0 0			Europium-152	SOLID	N/A	<1.2100E-06			1.21E-06	uCi/g			U
7	SAMPLE	S10V000654		0 0			Europium-154	SOLID	N/A	<8.3600E-07			8.36E-07	uCi/g			U
7	SAMPLE	S10V000654		0 0			Europium-155	SOLID	N/A	<4.4600E-07			4.46E-07	uCi/g			U

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LABCORE Completed Batch Report for Batch# 00019658

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
7	SAMPLE	S10V000654		0 0			Lead-212	SOLID	N/A	7.4580E-07		20.84	3.95E-07	uCi/g			c
7	SAMPLE	S10V000654		0 0			Bismuth-214	SOLID	N/A	8.4370E-07		37.33	5.08E-07	uCi/g			J
7	SAMPLE	S10V000654		0 0			Thorium-228	SOLID	N/A	<8.1700E-06			8.17E-06	uCi/g			U
7	SAMPLE	S10V000654		0 0			Thorium-234	SOLID	N/A	<2.7100E-06			2.71E-06	uCi/g			U
Sample Sequence 8																	
8	SAMPLE	S10V000663		0 0			Potassium-40	SOLID	N/A	1.3180E-05		37.54	7.51E-06	uCi/g			J
8	SAMPLE	S10V000663		0 0			Cobalt-60	SOLID	N/A	<3.7600E-07			3.76E-07	uCi/g			U
8	SAMPLE	S10V000663		0 0			Antimony-125	SOLID	N/A	<9.6700E-07			9.67E-07	uCi/g			U
8	SAMPLE	S10V000663		0 0			Cesium-137	SOLID	N/A	<4.9900E-07			4.99E-07	uCi/g			U
8	SAMPLE	S10V000663		0 0			Europium-152	SOLID	N/A	<1.9100E-06			1.91E-06	uCi/g			U
8	SAMPLE	S10V000663		0 0			Europium-154	SOLID	N/A	<1.1900E-06			1.19E-06	uCi/g			U
8	SAMPLE	S10V000663		0 0			Europium-155	SOLID	N/A	<6.2800E-07			6.28E-07	uCi/g			U
8	SAMPLE	S10V000663		0 0			Lead-212	SOLID	N/A	7.6480E-07		37.49	7.12E-07	uCi/g			Jc
8	SAMPLE	S10V000663		0 0			Lead-214	SOLID	N/A	8.7570E-07		40.40	8.69E-07	uCi/g			J
8	SAMPLE	S10V000663		0 0			Thorium-228	SOLID	N/A	<1.1800E-05			1.18E-05	uCi/g			U
8	SAMPLE	S10V000663		0 0			Thorium-234	SOLID	N/A	<4.0600E-06			4.06E-06	uCi/g			U
Sample Sequence 9																	
9	SAMPLE	S10V000672		0 0			Potassium-40	SOLID	N/A	1.0990E-05		36.08	6.01E-06	uCi/g			J
9	SAMPLE	S10V000672		0 0			Cobalt-60	SOLID	N/A	<2.9800E-07			2.98E-07	uCi/g			U
9	SAMPLE	S10V000672		0 0			Antimony-125	SOLID	N/A	<8.0200E-07			8.02E-07	uCi/g			U
9	SAMPLE	S10V000672		0 0			Cesium-137	SOLID	N/A	<3.5400E-07			3.54E-07	uCi/g			U
9	SAMPLE	S10V000672		0 0			Europium-152	SOLID	N/A	<1.2700E-06			1.27E-06	uCi/g			U
9	SAMPLE	S10V000672		0 0			Europium-154	SOLID	N/A	<9.5600E-07			9.56E-07	uCi/g			U
9	SAMPLE	S10V000672		0 0			Europium-155	SOLID	N/A	<5.0300E-07			5.03E-07	uCi/g			U
9	SAMPLE	S10V000672		0 0			Lead-212	SOLID	N/A	7.7220E-07		23.60	5.60E-07	uCi/g			c
9	SAMPLE	S10V000672		0 0			Thorium-228	SOLID	N/A	<9.2000E-06			9.20E-06	uCi/g			U
9	SAMPLE	S10V000672		0 0			Thorium-234	SOLID	N/A	<3.1600E-06			3.16E-06	uCi/g			U
Sample Sequence 10																	
10	DUP	S1005260101	S10V000672	0 0			Cobalt-60	SOLID	<2.9800E-07	<3.7800E-07			3.78E-07	uCi/g			
10	DUP	S1005260101	S10V000672	0 0			Antimony-125	SOLID	<8.0200E-07	<9.8100E-07			9.81E-07	uCi/g			
10	DUP	S1005260101	S10V000672	0 0			Cesium-137	SOLID	<3.5400E-07	<5.0800E-07			5.08E-07	uCi/g			
10	DUP	S1005260101	S10V000672	0 0			Europium-152	SOLID	<1.2700E-06	<1.9800E-06			1.98E-06	uCi/g			
10	DUP	S1005260101	S10V000672	0 0			Europium-154	SOLID	<9.5600E-07	<1.2700E-06			1.27E-06	uCi/g			
10	DUP	S1005260101	S10V000672	0 0			Europium-155	SOLID	<5.0300E-07	<6.6200E-07			6.62E-07	uCi/g			
10	DUP	S1005260101	S10V000672	0 0			Thorium-228	SOLID	<9.2000E-06	<1.2500E-05			1.25E-05	uCi/g			
10	DUP	S1005260101	S10V000672	0 0			Thorium-234	SOLID	<3.1600E-06	<4.3800E-06			4.38E-06	uCi/g			
10	DUP	S1005260101	S10V000672	0 0			Lead-212	SOLID	7.7220E-07	1.3450E-06		24.08	7.48E-07	uCi/g	54.109	% RPD	
10	DUP	S1005260101	S10V000672	0 0			Potassium-40	SOLID	1.0990E-05	1.8930E-05		28.01	7.76E-06	uCi/g	53.075	% RPD	
Sample Sequence 11																	
11	SAMPLE	S10V000681		0 0			Potassium-40	SOLID	N/A	1.4590E-05		24.67	5.16E-06	uCi/g			
11	SAMPLE	S10V000681		0 0			Cobalt-60	SOLID	N/A	<2.4300E-07			2.43E-07	uCi/g			U
11	SAMPLE	S10V000681		0 0			Antimony-125	SOLID	N/A	<6.4600E-07			6.46E-07	uCi/g			U

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LABCORE Completed Batch Report for Batch# 00019658

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
11	SAMPLE	S10V000681		0 0			Cesium-137	SOLID	N/A	<3.0600E-07			3.06E-07	uCi/g			U
11	SAMPLE	S10V000681		0 0			Europium-152	SOLID	N/A	<1.1800E-06			1.18E-06	uCi/g			U
11	SAMPLE	S10V000681		0 0			Europium-154	SOLID	N/A	<8.5100E-07			8.51E-07	uCi/g			U
11	SAMPLE	S10V000681		0 0			Europium-155	SOLID	N/A	<4.2700E-07			4.27E-07	uCi/g			U
11	SAMPLE	S10V000681		0 0			Thallium-208	SOLID	N/A	4.3780E-07		47.84	3.25E-07	uCi/g			J
11	SAMPLE	S10V000681		0 0			Lead-212	SOLID	N/A	6.3080E-07		23.76	4.02E-07	uCi/g			c
11	SAMPLE	S10V000681		0 0			Thorium-228	SOLID	N/A	<7.8800E-06			7.88E-06	uCi/g			U
11	SAMPLE	S10V000681		0 0			Thorium-234	SOLID	N/A	<2.6300E-06			2.63E-06	uCi/g			U
Sample Sequence 12																	
12	SAMPLE	S10V000690		0 0			Potassium-40	SOLID	N/A	1.2640E-05		29.69	5.54E-06	uCi/g			
12	SAMPLE	S10V000690		0 0			Cobalt-60	SOLID	N/A	<2.7400E-07			2.74E-07	uCi/g			U
12	SAMPLE	S10V000690		0 0			Antimony-125	SOLID	N/A	<7.4700E-07			7.47E-07	uCi/g			U
12	SAMPLE	S10V000690		0 0			Cesium-137	SOLID	N/A	<3.4200E-07			3.42E-07	uCi/g			U
12	SAMPLE	S10V000690		0 0			Europium-152	SOLID	N/A	<1.4000E-06			1.40E-06	uCi/g			U
12	SAMPLE	S10V000690		0 0			Europium-154	SOLID	N/A	<8.9600E-07			8.96E-07	uCi/g			U
12	SAMPLE	S10V000690		0 0			Europium-155	SOLID	N/A	<4.7000E-07			4.70E-07	uCi/g			U
12	SAMPLE	S10V000690		0 0			Lead-212	SOLID	N/A	4.8170E-07		42.70	4.80E-07	uCi/g			Jc
12	SAMPLE	S10V000690		0 0			Thorium-228	SOLID	N/A	<8.7100E-06			8.71E-06	uCi/g			U
12	SAMPLE	S10V000690		0 0			Thorium-234	SOLID	N/A	<2.8600E-06			2.86E-06	uCi/g			U

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019658

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019658

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1005260099	STD				
2	S1005260100	BLNK				
3	S10V000571	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
4	S10V000575	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
5	S10V000623	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
6	S10V000636	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
7	S10V000654	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
8	S10V000663	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
9	S10V000672	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
10	S1005260101	DUP	S10V000672			
11	S10V000681	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
12	S10V000690	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1

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LABCORE Completed Batch Report for Batch# 00019982

Analyst: Lai, Sue

Book#: 120B64

Instrument: A/B Detector 23 B-1A

Method: STRONTIUM-90, LA-220-101 Rev/Mod I-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019835

Batch Comment: C-Farm WMA C 2010-1 for Sr-90 Solid. MOF

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	STD	S1006090031		0 0			Strontium-89/90	LIQUID	.000774450795606857	7.4481E-04		2.101	1.13E-06	uCi/mL	96.173	% Recovery	
1	STD	S1006090031		0 0			Strontium-C	LIQUID		79.351				% Recovery	N/A		
Sample Sequence 2																	
2	BLNK-PREP	S1006030008		0 0	E		Strontium-89/90	SOLID		<4.4456E-07			4.45E-07	uCi/g			
2	BLNK-PREP	S1006030008		0 0	E		Strontium-C	SOLID		68.43				% Recovery			
Sample Sequence 3																	
3	SAMPLE	S10V000573		0 0	E		Strontium-89/90	SOLID	N/A	1.3444E-06		19.729	1.12E-07	uCi/g			
3	SAMPLE	S10V000573		0 0	E		Strontium-C	SOLID		79.15				% Recovery			
Sample Sequence 4																	
4	SAMPLE	S10V000626		0 0	E		Strontium-89/90	SOLID	N/A	1.4470E-06		20.079	1.24E-07	uCi/g			
4	SAMPLE	S10V000626		0 0	E		Strontium-C	SOLID		71.035				% Recovery			
Sample Sequence 5																	
5	SAMPLE	S10V000634		0 0	E		Strontium-89/90	SOLID	N/A	1.1713E-07		145.945	1.10E-07	uCi/g			J
5	SAMPLE	S10V000634		0 0	E		Strontium-C	SOLID		81.054				% Recovery			
Sample Sequence 6																	
6	SAMPLE	S10V000643		0 0	E		Strontium-89/90	SOLID	N/A	<2.9011E-07			2.90E-07	uCi/g			U
6	SAMPLE	S10V000643		0 0	E		Strontium-C	SOLID		91.073				% Recovery			
Sample Sequence 7																	
7	SAMPLE	S10V000661		0 0	E		Strontium-89/90	SOLID	N/A	<3.4241E-07			3.42E-07	uCi/g			U
7	SAMPLE	S10V000661		0 0	E		Strontium-C	SOLID		77.948				% Recovery			
Sample Sequence 8																	
8	SAMPLE	S10V000670		0 0	E		Strontium-89/90	SOLID	N/A	<3.3798E-07			3.38E-07	uCi/g			U
8	SAMPLE	S10V000670		0 0	E		Strontium-C	SOLID		76.044				% Recovery			
Sample Sequence 9																	
9	SAMPLE	S10V000679		0 0	E		Strontium-89/90	SOLID	N/A	<4.6834E-07			4.68E-07	uCi/g			U
9	SAMPLE	S10V000679		0 0	E		Strontium-C	SOLID		69.933				% Recovery			
Sample Sequence 10																	
10	DUP	S1006030009	S10V000679	0 0	E		Strontium-89/90	SOLID	<4.6834E-07	<4.4244E-07			4.42E-07	uCi/g			
10	DUP	S1006030009	S10V000679	0 0	E		Strontium-C	SOLID	69.933	76.445				% Recovery			
Sample Sequence 11																	
11	SAMPLE	S10V000688		0 0	E		Strontium-89/90	SOLID	N/A	<4.9241E-07			4.92E-07	uCi/g			U
11	SAMPLE	S10V000688		0 0	E		Strontium-C	SOLID		66.627				% Recovery			

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LABCORE Completed Batch Report for Batch# 00019982

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 12																	
12	SAMPLE	S10V000697		0 0	E		Strontium-89/90	SOLID	N/A	<6.4036E-07			6.40E-07	uCi/g			U
12	SAMPLE	S10V000697		0 0	E		Strontium-C	SOLID		55.405				% Recovery			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019982

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019982

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006090031	STD				
2	S1006030008	BLNK-PREP				
3	S10V000573	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
4	S10V000626	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
5	S10V000634	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
6	S10V000643	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
7	S10V000661	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
8	S10V000670	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
9	S10V000679	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
10	S1006030009	DUP	S10V000679			
11	S10V000688	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
12	S10V000697	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020359

Analyst: Casey, Adam

Book#: 111B64

Instrument: LSC3 LS6500 B-1A

Method: TRITIUM-LARGE VOLUME, LA-218-111 Rev/Mod G-0

Specification: C Farm WMC 2010-1

Prep Batch: 00020208

Batch Comment: C Farm 2010-1 H3. ACC

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	STD	S1006300018		0 0			Tritium	LIQUID	.0000263352	2.4800E-05		2.51	1.48E-07	uCi/mL	94.17	% Recovery	
Sample Sequence 2																	
2	BLNK-PREP	S1006220014		0 0	W		Tritium	LIQUID		<4.0700E-06		194.291	4.07E-06	uCi/g			
Sample Sequence 3																	
3	SAMPLE	S10V001169		0 0	W		Tritium	SOLID	N/A	4.2100E-06		74.703	2.48E-06	uCi/g			J
Sample Sequence 4																	
4	SAMPLE	S10V001175		0 0	W		Tritium	SOLID	N/A	<3.8900E-06			3.89E-06	uCi/g			U
Sample Sequence 5																	
5	SAMPLE	S10V001176		0 0	W		Tritium	SOLID	N/A	<4.8500E-06			4.85E-06	uCi/g			U
Sample Sequence 6																	
6	DUP	S1006220015	S10V001176	0 0	W		Tritium	SOLID	<4.8500E-06	4.2600E-06		86.704	2.50E-06	uCi/g			
Sample Sequence 7																	
7	SPK	S1006300019	S10V001176	0 0			Tritium	SOLID	.0000263352	2.4893E-05		4.012181479	2.51E-07	uCi/g	94.523	% Recovery	
Sample Sequence 8																	
8	SAMPLE	S10V001177		0 0	W		Tritium	SOLID	N/A	4.6500E-06		81.595	2.51E-06	uCi/g			J
Sample Sequence 9																	
9	SAMPLE	S10V001178		0 0	W		Tritium	SOLID	N/A	<4.9400E-06			1.48E-06	uCi/g			U
Sample Sequence 10																	
10	SAMPLE	S10V001179		0 0	W		Tritium	SOLID	N/A	<3.8500E-06			3.85E-06	uCi/g			U
Sample Sequence 11																	
11	SAMPLE	S10V001180		0 0	W		Tritium	SOLID	N/A	3.1500E-06		115.972	2.47E-06	uCi/g			J
Sample Sequence 12																	
12	SAMPLE	S10V001181		0 0	W		Tritium	SOLID	N/A	3.3000E-06		121.89	1.49E-06	uCi/g			J
Sample Sequence 13																	
13	SAMPLE	S10V001182		0 0	W		Tritium	SOLID	N/A	4.3700E-06		85.179	2.50E-06	uCi/g			J
Sample Sequence 14																	
14	SAMPLE	S10V001183		0 0	W		Tritium	SOLID	N/A	<4.0600E-06			4.06E-06	uCi/g			U

Comments Section:

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020359

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00020359

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020359

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006300018	STD				
2	S1006220014	BLNK-PREP				
3	S10V001169	SAMPLE		20100064	B27131	C Farm WMC 2010-1
4	S10V001175	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
5	S10V001176	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
6	S1006220015	DUP	S10V001176			
7	S1006300019	SPK	S10V001176			
8	S10V001177	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
9	S10V001178	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
10	S10V001179	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
11	S10V001180	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
12	S10V001181	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
13	S10V001182	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
14	S10V001183	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020585

Analyst: Fabre, Martha **Book#:**

Instrument: LSC2 LS6000 B-1A

Method: SELENIUM-79, LA-365-132 Rev/Mod I-0

Specification: C Farm WMC 2010-1

Prep Batch: 00020582

Batch Comment: C-Farm WMC 2010-1 for Se-79 Solid. MOF

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	BLNK-PREP	S1007130026		0 0	E		Selenium-79	SOLID		<7.3700E-07			7.37E-07	uCi/g			
1	BLNK-PREP	S1007130026		0 0	E		Selenium-C	SOLID		54.275				% Recovery			
Sample Sequence 2																	
2	SAMPLE	S10V000574		0 1	E		Selenium-79	SOLID	N/A	<8.9400E-07			8.94E-07	uCi/g			U
2	SAMPLE	S10V000574		0 1	E		Selenium-C	SOLID		44.814				% Recovery			
Sample Sequence 3																	
3	SAMPLE	S10V000627		0 1	E		Selenium-79	SOLID	N/A	<1.7300E-06			1.73E-06	uCi/g			U
3	SAMPLE	S10V000627		0 1	E		Selenium-C	SOLID		50.789				% Recovery			
Sample Sequence 4																	
4	SAMPLE	S10V000635		0 1	E		Selenium-79	SOLID	N/A	<1.5000E-06			1.50E-06	uCi/g			U
4	SAMPLE	S10V000635		0 1	E		Selenium-C	SOLID		33.362				% Recovery			
Sample Sequence 5																	
5	SAMPLE	S10V000644		0 1	E		Selenium-79	SOLID	N/A	<2.4000E-06			2.40E-06	uCi/g			U
5	SAMPLE	S10V000644		0 1	E		Selenium-C	SOLID		43.32				% Recovery			
Sample Sequence 6																	
6	SAMPLE	S10V000662		0 1	E		Selenium-79	SOLID	N/A	<1.0600E-06			1.06E-06	uCi/g			U
6	SAMPLE	S10V000662		0 1	E		Selenium-C	SOLID		45.312				% Recovery			
Sample Sequence 7																	
7	SAMPLE	S10V000671		0 1	E		Selenium-79	SOLID	N/A	<1.3800E-06			1.38E-06	uCi/g			U
7	SAMPLE	S10V000671		0 1	E		Selenium-C	SOLID		57.511				% Recovery			
Sample Sequence 8																	
8	SAMPLE	S10V000680		0 1	E		Selenium-79	SOLID	N/A	<1.8400E-06			1.84E-06	uCi/g			U
8	SAMPLE	S10V000680		0 1	E		Selenium-C	SOLID		46.308				% Recovery			
Sample Sequence 9																	
9	DUP	S1007130027	S10V000680	0 0	E		Selenium-79	SOLID	<1.8400E-06	<1.5700E-06			1.57E-06	uCi/g			
9	DUP	S1007130027	S10V000680	0 0	E		Selenium-C	SOLID	46.308	39.088				% Recovery			
Sample Sequence 10																	
10	SAMPLE	S10V000689		0 1	E		Selenium-79	SOLID	N/A	<1.1400E-06			1.14E-06	uCi/g			U
10	SAMPLE	S10V000689		0 1	E		Selenium-C	SOLID		58.009				% Recovery			
Sample Sequence 11																	
11	SAMPLE	S10V000698		0 1	E		Selenium-79	SOLID	N/A	<1.5700E-06			1.57E-06	uCi/g			U
11	SAMPLE	S10V000698		0 1	E		Selenium-C	SOLID		67.221				% Recovery			

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020585

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00020585

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00020585

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1007130026	BLNK-PREP				
2	S10V000574	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
3	S10V000627	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
4	S10V000635	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
5	S10V000644	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
6	S10V000662	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
7	S10V000671	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
8	S10V000680	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
9	S1007130027	DUP	S10V000680			
10	S10V000689	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
11	S10V000698	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019961

Analyst: Lai, Sue

Book#: 40B54B

Instrument: LSC2 LS6000 B-1A

Method: NICKEL-63, LA-285-102 Rev/Mod E-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019832

Batch Comment: C-Farm WMA C 2010-1 for Ni-63 Solid. MOF

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	STD	S1006080074		0 0			Nickel-63	LIQUID	.00437238875 039656	4.7098E-03		0.911	6.29E-06	uCi/mL	107.72	% Recovery	
1	STD	S1006080074		0 0			Nickel-C	LIQUID		78.382				% Recovery	N/A		
Sample Sequence 2																	
2	BLNK-PREP	S1006030001		0 0	E		Nickel-63	SOLID		<2.4400E-05			2.44E-05	uCi/g			
2	BLNK-PREP	S1006030001		0 0	E		Nickel-C	SOLID		39.385				% Recovery			
Sample Sequence 3																	
3	SAMPLE	S10V000574		0 0	E		Nickel-63	SOLID	N/A	1.5600E-05		142.893	1.06E-05	uCi/g			J
3	SAMPLE	S10V000574		0 0	E		Nickel-C	SOLID		47.662				% Recovery			
Sample Sequence 4																	
4	SAMPLE	S10V000627		0 0	E		Nickel-63	SOLID	N/A	3.9000E-04		5.237	1.08E-05	uCi/g			
4	SAMPLE	S10V000627		0 0	E		Nickel-C	SOLID		45.647				% Recovery			
Sample Sequence 5																	
5	SAMPLE	S10V000635		0 0	E		Nickel-63	SOLID	N/A	<1.3400E-05			1.34E-05	uCi/g			U
5	SAMPLE	S10V000635		0 0	E		Nickel-C	SOLID		44.169				% Recovery			
Sample Sequence 6																	
6	SAMPLE	S10V000644		0 0	E		Nickel-63	SOLID	N/A	<1.6500E-05			1.65E-05	uCi/g			U
6	SAMPLE	S10V000644		0 0	E		Nickel-C	SOLID		35.225				% Recovery			
Sample Sequence 7																	
7	SAMPLE	S10V000662		0 0	E		Nickel-63	SOLID	N/A	<2.1000E-05			2.10E-05	uCi/g			U
7	SAMPLE	S10V000662		0 0	E		Nickel-C	SOLID		44.385				% Recovery			
Sample Sequence 8																	
8	SAMPLE	S10V000671		0 0	E		Nickel-63	SOLID	N/A	<1.4300E-05			1.43E-05	uCi/g			U
8	SAMPLE	S10V000671		0 0	E		Nickel-C	SOLID		43.052				% Recovery			
Sample Sequence 9																	
9	SAMPLE	S10V000680		0 0	E		Nickel-63	SOLID	N/A	<1.3900E-05			1.39E-05	uCi/g			U
9	SAMPLE	S10V000680		0 0	E		Nickel-C	SOLID		44.186				% Recovery			
Sample Sequence 10																	
10	DUP	S1006030002	S10V000680	0 0	E		Nickel-63	SOLID	<1.3900E-05	<1.9200E-05			1.92E-05	uCi/g			
10	DUP	S1006030002	S10V000680	0 0	E		Nickel-C	SOLID	44.186	44.242				% Recovery			
Sample Sequence 11																	
11	SAMPLE	S10V000689		0 0	E		Nickel-63	SOLID	N/A	<1.4000E-05			1.40E-05	uCi/g			U
11	SAMPLE	S10V000689		0 0	E		Nickel-C	SOLID		46.016				% Recovery			

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019961

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 12																	
12	SAMPLE	S10V000698		0 0	E		Nickel-63	SOLID	N/A	<1.2300E-05			1.23E-05	uCi/g			U
12	SAMPLE	S10V000698		0 0	E		Nickel-C	SOLID		42.899				% Recovery			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019961

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019961

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006080074	STD				
2	S1006030001	BLNK-PREP				
3	S10V000574	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
4	S10V000627	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
5	S10V000635	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
6	S10V000644	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
7	S10V000662	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
8	S10V000671	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
9	S10V000680	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
10	S1006030002	DUP	S10V000680			
11	S10V000689	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
12	S10V000698	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00021356

Analyst: Lai, Sue

Book#: 40B64B

Instrument: LSC2 LS6000 B-1A

Method: CARBON-14, LA-348-104 Rev/Mod H-0

Specification: C Farm WMC 2010-1

Prep Batch: 00019034, 00020208

Batch Comment: C Farm WMC 2010-1 Gp20100213

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	STD	S1008170045		0 0			Carbon-14	SOLID	.0012082025	1.1300E-03		0.646	1.31E-06	uCi/mL	93.524	% Recovery	
Sample Sequence 2																	
2	BLNK-PREP	S1004220138		0 0	W		Carbon-14	LIQUID		<2.6000E-07			2.60E-07	uCi/g			
Sample Sequence 3																	
3	SAMPLE	S10V000577		0 0	W		Carbon-14	SOLID	N/A	<2.8300E-06			2.83E-06	uCi/g			U
Sample Sequence 4																	
4	SAMPLE	S10V000629		0 0	W		Carbon-14	SOLID	N/A	<2.7100E-06			2.71E-06	uCi/g			U
Sample Sequence 5																	
5	DUP	S1004220139	S10V000629	0 0	W		Carbon-14	SOLID	<2.7100E-06	<2.7300E-06			2.73E-06	uCi/g			
Sample Sequence 6																	
6	SAMPLE	S10V001175		0 0	W		Carbon-14	SOLID	N/A	<2.5800E-06			2.58E-06	uCi/g			U
Sample Sequence 7																	
7	SAMPLE	S10V001178		0 0	W		Carbon-14	SOLID	N/A	<3.1700E-06			3.17E-06	uCi/g			U
Sample Sequence 8																	
8	SAMPLE	S10V001179		0 0	W		Carbon-14	SOLID	N/A	4.6900E-06		56.856	4.28E-06	uCi/g			J
Sample Sequence 9																	
9	SAMPLE	S10V001180		0 0	W		Carbon-14	SOLID	N/A	<3.5400E-06			3.54E-06	uCi/g			U
Sample Sequence 10																	
10	SAMPLE	S10V001181		0 0	W		Carbon-14	SOLID	N/A	<2.5500E-06			2.55E-06	uCi/g			U
Sample Sequence 11																	
11	SAMPLE	S10V001182		0 0	W		Carbon-14	SOLID	N/A	<2.5700E-06			2.57E-06	uCi/g			U
Sample Sequence 12																	
12	SAMPLE	S10V001183		0 0	W		Carbon-14	SOLID	N/A	<2.8900E-06			2.89E-06	uCi/g			U
Sample Sequence 13																	
13	SPK	S1008170046	S10V001183	0 0			Carbon-14	SOLID	.00120820250791184	1.1212E-03		0.618	1.94E-07	uCi/g	92.796	% Recovery	

Comments Section:

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00021356

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00021356

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00021356

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1008170045	STD				
2	S1004220138	BLNK-PREP				
3	S10V000577	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
4	S10V000629	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
5	S1004220139	DUP	S10V000629			
6	S10V001175	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
7	S10V001178	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
8	S10V001179	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
9	S10V001180	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
10	S10V001181	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
11	S10V001182	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
12	S10V001183	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1
13	S1008170046	SPK	S10V001183			

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019900

Analyst: Painter, JimaLee **Book#:** 82B64

Instrument: GEA06 B-1F

Method: IODINE-129 in SOIL, LA-378-105 Rev/Mod C-0

Specification: C Farm WMC 2010-1

Prep Batch:

Batch Comment: I-129 for C Farm WMA 2010-1 Group 201000213. jp

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	STD	S1006070019		0 0			Iodine-129	LIQUID	.00319699984 233388	3.3791E-03		4.54	7.90E-06	uCi/mL	105.7	% Recovery	
1	STD	S1006070019		0 0			Iodine-C	LIQUID		79.755				% Recovery	N/A		
Sample Sequence 2																	
2	BLNK	S1006070020		0 0			Iodine-129	LIQUID		<2.3613E-07			2.36E-07	uCi/g			
2	BLNK	S1006070020		0 0			Iodine-C	LIQUID		81.724				% Recovery			
Sample Sequence 3																	
3	SAMPLE	S10V000571		0 0			Iodine-129	SOLID	N/A	<1.6990E-07			1.70E-07	uCi/g			U
3	SAMPLE	S10V000571		0 0			Iodine-C	SOLID		85.335				% Recovery			
Sample Sequence 4																	
4	SAMPLE	S10V000575		0 0			Iodine-129	SOLID	N/A	<2.1391E-07			2.14E-07	uCi/g			U
4	SAMPLE	S10V000575		0 0			Iodine-C	SOLID		88.617				% Recovery			
Sample Sequence 5																	
5	SAMPLE	S10V000623		0 0			Iodine-129	SOLID	N/A	<2.3213E-07			2.32E-07	uCi/g			U
5	SAMPLE	S10V000623		0 0			Iodine-C	SOLID		85.663				% Recovery			
Sample Sequence 6																	
6	SAMPLE	S10V000636		0 0			Iodine-129	SOLID	N/A	<2.7171E-07			2.72E-07	uCi/g			U
6	SAMPLE	S10V000636		0 0			Iodine-C	SOLID		78.442				% Recovery			
Sample Sequence 7																	
7	SAMPLE	S10V000654		0 0			Iodine-129	SOLID	N/A	<2.6773E-07			2.68E-07	uCi/g			U
7	SAMPLE	S10V000654		0 0			Iodine-C	SOLID		80.411				% Recovery			
Sample Sequence 8																	
8	SAMPLE	S10V000663		0 0			Iodine-129	SOLID	N/A	<2.3521E-07			2.35E-07	uCi/g			U
8	SAMPLE	S10V000663		0 0			Iodine-C	SOLID		77.457				% Recovery			
Sample Sequence 9																	
9	SAMPLE	S10V000672		0 0			Iodine-129	SOLID	N/A	<2.5596E-07			2.56E-07	uCi/g			U
9	SAMPLE	S10V000672		0 0			Iodine-C	SOLID		80.74				% Recovery			
Sample Sequence 10																	
10	DUP	S1006070021	S10V000672	0 0			Iodine-129	SOLID	<2.5596E-07	<2.1568E-07			2.16E-07	uCi/g			
10	DUP	S1006070021	S10V000672	0 0			Iodine-C	SOLID	80.74	85.335				% Recovery			
Sample Sequence 11																	
11	SAMPLE	S10V000681		0 0			Iodine-129	SOLID	N/A	<2.7496E-07			2.75E-07	uCi/g			U
11	SAMPLE	S10V000681		0 0			Iodine-C	SOLID		75.16				% Recovery			

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019900

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 12																	
12	SAMPLE	S10V000690		0 0			Iodine-129	SOLID	N/A	<2.2428E-07			2.24E-07	uCi/g			U
12	SAMPLE	S10V000690		0 0			Iodine-C	SOLID		89.929				% Recovery			

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019900

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00019900

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006070019	STD				
2	S1006070020	BLNK				
3	S10V000571	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
4	S10V000575	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
5	S10V000623	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
6	S10V000636	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
7	S10V000654	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
8	S10V000663	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
9	S10V000672	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
10	S1006070021	DUP	S10V000672			
11	S10V000681	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
12	S10V000690	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00019965

Analyst: Fabre, Martha **Book#:** 120B64

Instrument: A/B Detector 23 B-1A

Method: AMERICIUM, LA-953-104 Rev/Mod H-1

Specification: C Farm WMC 2010-1

Prep Batch: 00019833

Batch Comment: C-Farm WMA C 2010-1 for AM Solid. MOF

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	STD	S1006080086		0 0			Americium-241	LIQUID	.0000755	7.5622E-05		6.81	1.12E-05	uCi/mL	100.16	% Recovery	
1	STD	S1006080086		0 0			Americium-243T	LIQUID		75.645				% Recovery	N/A		
Sample Sequence 2																	
2	BLNK-PREP	S1006030003		0 0	E		Curium-243/244	SOLID		<2.1545E-07			2.15E-07	uCi/g			
2	BLNK-PREP	S1006030003		0 0	E		Americium-241	SOLID		<5.3863E-07			5.39E-07	uCi/g			
2	BLNK-PREP	S1006030003		0 0	E		Americium-243T	SOLID		78.258				% Recovery			
2	BLNK-PREP	S1006030003		0 0	E		Curium-242	SOLID		<2.1545E-07			2.15E-07	uCi/g			
Sample Sequence 3																	
3	SAMPLE	S10V000572		0 0	E		Curium-243/244	SOLID	N/A	<1.6267E-07			1.63E-07	uCi/g			U
3	SAMPLE	S10V000572		0 0	E		Americium-241	SOLID	N/A	<4.0667E-07			4.07E-07	uCi/g			U
3	SAMPLE	S10V000572		0 0	E		Americium-243T	SOLID		96.279				% Recovery			
3	SAMPLE	S10V000572		0 0	E		Curium-242	SOLID	N/A	<1.6267E-07			1.63E-07	uCi/g			U
Sample Sequence 4																	
4	SAMPLE	S10V000625		0 0	E		Curium-243/244	SOLID	N/A	<1.8237E-07			1.82E-07	uCi/g			U
4	SAMPLE	S10V000625		0 0	E		Americium-241	SOLID	N/A	<4.5593E-07			4.56E-07	uCi/g			U
4	SAMPLE	S10V000625		0 0	E		Americium-243T	SOLID		87.549				% Recovery			
4	SAMPLE	S10V000625		0 0	E		Curium-242	SOLID	N/A	<1.8237E-07			1.82E-07	uCi/g			U
Sample Sequence 5																	
5	SAMPLE	S10V000633		0 0	E		Curium-243/244	SOLID	N/A	<1.9885E-07			1.99E-07	uCi/g			U
5	SAMPLE	S10V000633		0 0	E		Americium-241	SOLID	N/A	<4.9713E-07			4.97E-07	uCi/g			U
5	SAMPLE	S10V000633		0 0	E		Americium-243T	SOLID		84.308				% Recovery			
5	SAMPLE	S10V000633		0 0	E		Curium-242	SOLID	N/A	<1.9885E-07			1.99E-07	uCi/g			U
Sample Sequence 6																	
6	SAMPLE	S10V000642		0 0	E		Curium-243/244	SOLID	N/A	<2.4201E-07			2.42E-07	uCi/g			U
6	SAMPLE	S10V000642		0 0	E		Americium-241	SOLID	N/A	<6.0503E-07			6.05E-07	uCi/g			U
6	SAMPLE	S10V000642		0 0	E		Americium-243T	SOLID		72.961				% Recovery			
6	SAMPLE	S10V000642		0 0	E		Curium-242	SOLID	N/A	<2.4201E-07			2.42E-07	uCi/g			U
Sample Sequence 7																	
7	SAMPLE	S10V000660		0 0	E		Curium-243/244	SOLID	N/A	<1.8667E-07			1.87E-07	uCi/g			U
7	SAMPLE	S10V000660		0 0	E		Americium-241	SOLID	N/A	<4.6667E-07			4.67E-07	uCi/g			U
7	SAMPLE	S10V000660		0 0	E		Americium-243T	SOLID		90.89				% Recovery			
7	SAMPLE	S10V000660		0 0	E		Curium-242	SOLID	N/A	<1.8667E-07			1.87E-07	uCi/g			U

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LABCORE Completed Batch Report for Batch# 00019965

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 8																	
8	SAMPLE	S10V000669		0 0	E		Curium-243/244	SOLID	N/A	<2.1029E-07			2.10E-07	uCi/g			U
8	SAMPLE	S10V000669		0 0	E		Americium-241	SOLID	N/A	<5.2571E-07			5.26E-07	uCi/g			U
8	SAMPLE	S10V000669		0 0	E		Americium-243T	SOLID		85.741				% Recovery			
8	SAMPLE	S10V000669		0 0	E		Curium-242	SOLID	N/A	<2.1029E-07			2.10E-07	uCi/g			U
Sample Sequence 9																	
9	SAMPLE	S10V000678		0 0	E		Curium-243/244	SOLID	N/A	<2.0767E-07			2.08E-07	uCi/g			U
9	SAMPLE	S10V000678		0 0	E		Americium-241	SOLID	N/A	<5.1918E-07			5.19E-07	uCi/g			U
9	SAMPLE	S10V000678		0 0	E		Americium-243T	SOLID		80.572				% Recovery			
9	SAMPLE	S10V000678		0 0	E		Curium-242	SOLID	N/A	<2.0767E-07			2.08E-07	uCi/g			U
Sample Sequence 10																	
10	DUP	S1006030004	S10V000678	0 0	E		Curium-243/244	SOLID	<2.0767E-07	<1.9994E-07			2.00E-07	uCi/g			
10	DUP	S1006030004	S10V000678	0 0	E		Americium-241	SOLID	<5.1918E-07	<4.9986E-07			5.00E-07	uCi/g			
10	DUP	S1006030004	S10V000678	0 0	E		Americium-243T	SOLID	80.572	87.734				% Recovery			
10	DUP	S1006030004	S10V000678	0 0	E		Curium-242	SOLID	<2.0767E-07	<1.9994E-07			2.00E-07	uCi/g			
Sample Sequence 11																	
11	SAMPLE	S10V000687		0 0	E		Curium-243/244	SOLID	N/A	<1.9750E-07			1.98E-07	uCi/g			U
11	SAMPLE	S10V000687		0 0	E		Americium-241	SOLID	N/A	<4.9376E-07			4.94E-07	uCi/g			U
11	SAMPLE	S10V000687		0 0	E		Americium-243T	SOLID		90.186				% Recovery			
11	SAMPLE	S10V000687		0 0	E		Curium-242	SOLID	N/A	<1.9750E-07			1.98E-07	uCi/g			U
Sample Sequence 12																	
12	SAMPLE	S10V000696		0 0	E		Curium-243/244	SOLID	N/A	<1.9956E-07			2.00E-07	uCi/g			U
12	SAMPLE	S10V000696		0 0	E		Americium-241	SOLID	N/A	<4.9891E-07			4.99E-07	uCi/g			U
12	SAMPLE	S10V000696		0 0	E		Americium-243T	SOLID		87.922				% Recovery			
12	SAMPLE	S10V000696		0 0	E		Curium-242	SOLID	N/A	<1.9956E-07			2.00E-07	uCi/g			U

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00019965

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LABCORE Completed Batch Report for Batch# 00019965

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006080086	STD				
2	S1006030003	BLNK-PREP				
3	S10V000572	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
4	S10V000625	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
5	S10V000633	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
6	S10V000642	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
7	S10V000660	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
8	S10V000669	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
9	S10V000678	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
10	S1006030004	DUP	S10V000678			
11	S10V000687	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
12	S10V000696	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Batch Report for Batch# 00020319

Analyst: LaPlant, Gary **Book#:** 120B64

Instrument: A/B Detector 13 B-1A

Method: PLUTONIUM, LA-953-104 Rev/Mod H-1

Specification: C Farm WMC 2010-1

Prep Batch: 00020317

Batch Comment: C-Farm WMA C 2010-1 for Pu239. gll

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
Sample Sequence 1																	
1	STD	S1006280043		0 0			Pu-239/240	LIQUID	.0000971907847541713	9.1501E-05		6.51	6.13E-06	uCi/mL	94.146	% Recovery	
1	STD	S1006280043		0 0			Plutonium-236T	LIQUID		84.073				% Recovery	N/A		
Sample Sequence 2																	
2	BLNK-PREP	S1006280037		0 0	E		Pu-239/240	SOLID		<2.7505E-07			2.75E-07	uCi/g			
2	BLNK-PREP	S1006280037		0 0	E		Plutonium-236T	SOLID		83.673				% Recovery			
2	BLNK-PREP	S1006280037		0 0	E		Plutonium-238	SOLID		<2.7505E-07			2.75E-07	uCi/g			
Sample Sequence 3																	
3	SAMPLE	S10V000572		0 2	E		Pu-239/240	SOLID	N/A	<2.7789E-07			2.78E-07	uCi/g			U
3	SAMPLE	S10V000572		0 2	E		Plutonium-236T	SOLID		81.889				% Recovery			
3	SAMPLE	S10V000572		0 2	E		Plutonium-238	SOLID	N/A	<2.7789E-07			2.78E-07	uCi/g			U
Sample Sequence 4																	
4	SAMPLE	S10V000625		0 2	E		Pu-239/240	SOLID	N/A	<2.4732E-07			2.47E-07	uCi/g			U
4	SAMPLE	S10V000625		0 2	E		Plutonium-236T	SOLID		86.197				% Recovery			
4	SAMPLE	S10V000625		0 2	E		Plutonium-238	SOLID	N/A	<2.4732E-07			2.47E-07	uCi/g			U
Sample Sequence 5																	
5	SAMPLE	S10V000633		0 2	E		Pu-239/240	SOLID	N/A	<2.2686E-07			2.27E-07	uCi/g			U
5	SAMPLE	S10V000633		0 2	E		Plutonium-236T	SOLID		96.851				% Recovery			
5	SAMPLE	S10V000633		0 2	E		Plutonium-238	SOLID	N/A	<2.2686E-07			2.27E-07	uCi/g			U
Sample Sequence 6																	
6	SAMPLE	S10V000642		0 2	E		Pu-239/240	SOLID	N/A	<2.3785E-07			2.38E-07	uCi/g			U
6	SAMPLE	S10V000642		0 2	E		Plutonium-236T	SOLID		94.04				% Recovery			
6	SAMPLE	S10V000642		0 2	E		Plutonium-238	SOLID	N/A	<2.3785E-07			2.38E-07	uCi/g			U
Sample Sequence 7																	
7	SAMPLE	S10V000660		0 2	E		Pu-239/240	SOLID	N/A	<2.5937E-07			2.59E-07	uCi/g			U
7	SAMPLE	S10V000660		0 2	E		Plutonium-236T	SOLID		84.579				% Recovery			
7	SAMPLE	S10V000660		0 2	E		Plutonium-238	SOLID	N/A	<2.5937E-07			2.59E-07	uCi/g			U
Sample Sequence 8																	
8	SAMPLE	S10V000669		0 2	E		Pu-239/240	SOLID	N/A	<2.5249E-07			2.52E-07	uCi/g			U
8	SAMPLE	S10V000669		0 2	E		Plutonium-236T	SOLID		87.454				% Recovery			
8	SAMPLE	S10V000669		0 2	E		Plutonium-238	SOLID	N/A	<2.5249E-07			2.52E-07	uCi/g			U
Sample Sequence 9																	

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N, A = Non-reported Analyte

LABCORE Completed Batch Report for Batch# 00020319

Seq	Type	Sample#	Assoc. Sample	RepR	A	*	Test	Matrix	Actual	Found	Blank	CTR	Limit (DL/RL/UL)	Unit	Yield	Yield Unit	Flags
9	SAMPLE	S10V000678		0 2	E		Pu-239/240	SOLID	N/A	<2.1374E-07			2.14E-07	uCi/g			U
9	SAMPLE	S10V000678		0 2	E		Plutonium-236T	SOLID		89.201				% Recovery			
9	SAMPLE	S10V000678		0 2	E		Plutonium-238	SOLID	N/A	<2.1374E-07			2.14E-07	uCi/g			U
Sample Sequence 10																	
10	DUP	S1006280038	S10V000678	0 0	E		Pu-239/240	SOLID	<2.1374E-07	<2.1557E-07			2.16E-07	uCi/g			
10	DUP	S1006280038	S10V000678	0 0	E		Plutonium-236T	SOLID	89.201	93.923				% Recovery			
10	DUP	S1006280038	S10V000678	0 0	E		Plutonium-238	SOLID	<2.1374E-07	<2.1557E-07			2.16E-07	uCi/g			
Sample Sequence 11																	
11	SAMPLE	S10V000687		0 2	E		Pu-239/240	SOLID	N/A	<1.9888E-07			1.99E-07	uCi/g			U
11	SAMPLE	S10V000687		0 2	E		Plutonium-236T	SOLID		97.213				% Recovery			
11	SAMPLE	S10V000687		0 2	E		Plutonium-238	SOLID	N/A	<1.9888E-07			1.99E-07	uCi/g			U
Sample Sequence 12																	
12	SAMPLE	S10V000696		0 2	E		Pu-239/240	SOLID	N/A	<2.2864E-07			2.29E-07	uCi/g			U
12	SAMPLE	S10V000696		0 2	E		Plutonium-236T	SOLID		100.55				% Recovery			
12	SAMPLE	S10V000696		0 2	E		Plutonium-238	SOLID	N/A	<2.2864E-07			2.29E-07	uCi/g			U

Comments Section:

Data Flagger Status:
Flagging Completed

Final Page for Batch# 00020319

Reviewer Signature **Date**

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LABCORE Completed Batch Report for Batch# 00020319

Seq	Sample#	QC Type	Assoc. Sample	Sample Group	Customer Id	Specification
1	S1006280043	STD				
2	S1006280037	BLNK-PREP				
3	S10V000572	SAMPLE		20100213	B23R25	C Farm WMC 2010-1
4	S10V000625	SAMPLE		20100213	B23KN7	C Farm WMC 2010-1
5	S10V000633	SAMPLE		20100213	B238J9	C Farm WMC 2010-1
6	S10V000642	SAMPLE		20100213	B25CN2	C Farm WMC 2010-1
7	S10V000660	SAMPLE		20100213	B23KP6	C Farm WMC 2010-1
8	S10V000669	SAMPLE		20100213	B23KP9	C Farm WMC 2010-1
9	S10V000678	SAMPLE		20100213	B23KR2	C Farm WMC 2010-1
10	S1006280038	DUP	S10V000678			
11	S10V000687	SAMPLE		20100213	B23KR5	C Farm WMC 2010-1
12	S10V000696	SAMPLE		20100213	B25ND7	C Farm WMC 2010-1

Units shown for QC (BLK/BKG) may not reflect the actual units.

* = Rejected Analyte
N, A = Non-reported Analyte