FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7472 IN SUPPORT OF RCRA SOIL CHARACTERIZATION

Author Name:
G. P. Ritenour
WRPS
Richland, WA 99352
U.S. Department of Energy Contract DE-AC27-08RV14800

EDT/ECN:	N/A	UC:	N/A
Cost Center:	N/A	Charge Code:	HPG00051
B&R Code:	N/A	Total Pages:	

Key Words: Vadose, Waste Management Area, C Farm, WMA C, Site F, WMC 2010-1, RCRA Soil Characterization, Final Analysis Report, C7472, Core Holes, 20090875, 20090876, 20090877, 20090878, B238D8, B238D3, B238D4, B238D5, B238D6, B238D7, B238D9, B238F0, B238C8, B238C9, B238D0
(continued on next page)

Abstract: This final report contains the analytical results supporting the RCRA characterization of Vadose samples from core 7472 in C Farm. It also contains the results for one equipment blank, and associated field and trip blanks supporting the sampling effort.

TRADEMARK DISCLAIMER. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

NOV - 3 2011
DATE:
STA: 4
HANFORD RELEASE
ID: 58

Release Approval — Date: 11/3/2011 — Release Stamp

Approved For Public Release

Key Words: (Continued from Cover Sheet) B238D1, B238D2, B238F2, B238F3, B238F4, B236N7, B236N5, B236P0, B236N8, B236P4, B236P2, B236P2B, B236P7, B236P5, B236P8, B23KT4, B238H3, B238H1, B238H6, B238H4, B238H9, B238H7, B238J2, B238J0, B238J5, B238J3, B238J8, B238J6, B23K86, B238K3, Advanced Technologies and Laboratories, ATL, WRPS, SW-846

DISTRIBUTION SHEET

To	From	Page 1 of 1
J. G. Reynolds	G. P. Ritenour	Date
Project Title/Work Order RPP-RPT-49050 Rev. 0 FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7472 IN SUPPORT OF RCRA SOIL CHARACTERIZATION		EDT No. N/A ECN No. N/A

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
G. P. Ritenour	T6-10	X			
S. J. Eberlein	E6-31	X			
M. P. Connelly	E6-31	X			
K. J. Dunbar	E6-31	X			
H. A. Sydnor	E6-31	X			
D. D. Crumpler		X			
J. M. Johnson	T6-02	X			
S. M. McKinney	T6-02	X			
C. L. Tabor	E6-31	X			
H. L. Anastos	E6-31	X			
A. M. Templeton	E3-31	X			
J. R. Robertson	E6-31	X			
A. Shrum	E6-31	X			
C. P. Mangano	H8-51	X			
S. A. Lynch	R3-50	X			
DOE Reading Room	H2-53	H			

A-6000-135 (10/97)

FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7472, IN SUPPORT OF RCRA SOIL CHARACTERICZATION

ATL Document No. 20090877 Rev.1

Gerald P. Ritenour
Advanced Technologies and Laboratories International, Inc.

Date Published
March 3, 2011

Prepared for:

Washington River Protection Solutions, Inc.
P.O. Box 850
Richland, WA 99352
509-376-5029

Prepared by:

ATL International, Inc.
P.O. Box 250
Richland, WA 99352-0250
509-372-2742

Gerald P Ritenour 3-2-2011
G. P. Ritenour; ATL Project Manager

Judith McCluskey 3-2-2011
J. A. McCluskey, QA Scientist

Table of Contents

NARRATIVE..... 1

1.0 INTRODUCTION..... 1

2.0 SAMPLE RECEIPT AND BREAKDOWN..... 1

2.1 SAMPLE RECEIPT..... 1

2.2 SAMPLE BREAKDOWN..... 2

3.0 ANALYTICAL RESULTS SUMMARY..... 2

3.1 SAMPLE DIGESTIONS..... 3

3.1.1 Radiochemistry Strong Acid Digestion..... 3

3.1.2 SW-846 3050B - Acid Digestion-Heating Block..... 4

3.1.3 Water Digestion..... 4

3.1.4 Vadose Water Digestion..... 4

3.2 INORGANIC ANALYSES 4

3.2.1 Alkalinity..... 4

3.2.2 Cyanide..... 5

3.2.3 Sulfide 5

3.2.4 pH Analysis..... 5

3.2.5 Mercury 5

3.2.6 Ion Chromatography … Ammonium..... 5

3.2.7 Ion Chromatography … Anions and Small Organic Acids..... 6

3.2.8 Inductively Coupled Plasma/Atomic Emission Spectroscopy..... 7

3.2.9 Inductively Coupled Plasma/Mass Spectroscopy 9

3.3 RADIOCHEMICAL ANALYSIS 12

3.3.1 Gamma Energy Analysis 12

3.3.2 Strontium-89/90..... 12

3.3.3 Tritium..... 13

3.3.4 Selenium-79..... 13

3.3.5 Carbon-14..... 13

3.3.6 Nickel-63..... 14

3.3.7 Iodine-129..... 14

3.3.8 Americium-241, Curium-243/244, and Curium-242 14

3.3.9 Plutonium-238 and Plutonium-239/240..... 14

3.4 ORGANIC ANALYSES..... 14

3.4.1 Volatile Organic Analysis..... 14

3.4.2 Semivolatile Organic Analysis..... 16

3.4.3 Tentatively Identified Compounds..... 17

4.0 PROCEDURES 17

5.0 REFERENCES 19

Attachment 1: DATA SUMMARY REPORT..... 20

Equipment Blank..... 21

Field Blank..... 26

Field Blank..... 40

Sample Depth: Surface..... 56

Sample Depth: Surface Dup..... 63

Sample Depth: 5-7..... 70

Sample Depth: 10-14..... 77

Sample Depth: 12-14..... 82

Sample Depth: 10-12..... 85

Sample Depth: 14-16..... 87

Sample Depth: 108.5-110.5 97
Sample Depth: 129-131 107
Sample Depth: 142-144 117
Sample Depth: 158-160 126
Sample Depth: 195-197 136
Sample Depth: 216-218 144
Attachment 2: SAMPLE BREAKDOWN DIAGRAM 152
Equipment Blank 153
Trip Blank 154
Field Blank 155
Sample Depth: Surface 156
Sample Depth: Surface Dup 157
Sample Depth: 5-7 ft 158
Sample Depth:10-12ft 159
Sample Depth:12-14ft 159
Sample Depth:10-14ft 159
Sample Depth:14-16 Ft 160
Sample Depth:108.5-110.5 161
Sample Depth: 129-131 162
Sample Depth: 142-144 163
Sample Depth:158-160 164
Sample Depth: 195-197 165
Sample Depth: 216-218 166
Attachment 3: HOLDING TIME REPORT 167

Alkalinity Holding Time Report..... 168

Cyanide Holding Time Report..... 169

Sulfide Holding Time Report..... 170

pH Holding Time Report 171

Hg Holding Time Report..... 172

Ammonia Holding Time Report..... 173

IC Anions Holding Time Report..... 174

Metals Holding Time Report..... 175

Isotopes ICPMS Holding Time Report..... 177

Isotopes RadioChemistry Holding Time Report..... 180

VOA Holding Time Report..... 184

SVOA Holding Time Report..... 185

Attachment 4: ADDITIONAL QC RESULTS..... 186

Attachment 5: TICs FOR ORGANIC ANALYSES..... 187

Attachment 6: ANALYTICAL BATCH AND LAB SAMPLE ID INDEX..... 217

Attachment 7: GEOLOGICAL REPORT..... 225

Soil Descriptions 228

Soil Photograhs..... 233

Attachment 8: CCN AND CORRESPONDENCE..... 226

Attachment 9: RECEIPT PAPERWORK..... 264

COC Equipment Blank..... 265

COC C7472 Surf,SurfD, FB8..... 268

COC C7472 I001, I002, TB1, FB1..... 278

COC C7472 I003, I004, TB2, FB2..... 289

COC C7472 I005, I006, TB3, FB3 297

COC C7472 I007, TB4, FB4 308

COC C7472 I008, TB5, FB5 315

COC C7472 I009, TB6, FB6 322

COC C7472 I010, TB7, FB7 329

222-S LABORATORY

FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7472 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 December 29, 2009 and April 15, 2010. The report is a reissue of ATL-20090877 Rev.0 with changes based on the Report Comment Record received from the Vadose client (see Attachment 8). In addition the laboratory has also made the following changes:

- Attachment 6: Analytical Batch and Laboratory Sample Identification Number Index
- Various editorial corrections

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-3877, *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	Analytical Batch and Laboratory Sample Identification Number Index
Attachment 7	Geological Report
Attachment 8	Characterization Change Notices (CCN), and Correspondence
Attachment 9	Receipt Paperwork

2.0 SAMPLE RECEIPT AND BREAKDOWN

2.1 SAMPLE RECEIPT

A total of ten core intervals and two surface grab samples from core hole C7472 along with one equipment blank, eight field blanks, and seven trip blanks were received by the 222-S Laboratory between December 29, 2009 and April 15, 2010. The samples were delivered in a cooler with ice

or, in the case of the volatile organic samples, in a freezer. The temperature of the temperature blanks were measured and recorded on the sample receipt check list and/or the chain of custody form. In one case (the surface and surface duplicate samples), the sample custodian measured and recorded the temperature of field samples at 17 °C and 11 °C. The elevated temperature of these samples reflect the fact that they had not been in the cooler long enough to reach equilibrium. All temperature blanks were within the required ranges in the FSAP.

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 7. The WRPS geologist also measured the bulk density for core liners that had sufficient recovery (see Attachments 1 and 2). Provided sufficient samples existed, the composite for each core interval was analyzed as described in the SAP and FSAP. Two core intervals, I001 and I002, had less than full recovery (see Attachment 2 and Attachment 9). Interval I001 was extruded and composited in the normal manner. Interval I002 was combined with I003 to form a single composite. Interval I002 consisted of the VOA samples and one liner. Interval I003 was taken immediately below I002; VOA samples were not prepared from this shoe (see Attachment7, CCN-WMAC-005). 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 sample 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 from FEAD CP-15383, *Common Requirements of the Format for Electronic Analytical Data,* that are defined as follows:

"B" for organic or radiochemistry results is used to indicate that the analyte was detected in the method or preparation blank and in the sample.

"B" for inorganic results is used to indicate that the reported result should be considered an estimate because it is below the quantitation limit. The "B" flag is applied to sample concentrations that are greater than the MDL but less than the quantitation limit.

"C" for inorganic results 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 or equal to 20% of the reported sample result.

"J" for organic results is used to indicate 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.

"U" for all results is used to indicate that the reported result is less than the calculated detection limit.

"N" for all but GC/MS is used to indicate that the MS recovery or MSD recovery was outside of the specified range in the QAPP or SAP.

"N" for GC/MS is used to indicate a TIC which has been named.

"M" for inorganic results is used to indicate 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 were 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) analysis. 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 Alkalinity

Analysis for alkalinity was performed on a vadose water digest of subsamples of the grab samples and liner composites. Since analyzing an equipment rinsate for alkalinity is of little value, the requirement that alkalinity be analyzed on the equipment blank was eliminated by the client (see Attachment 8).

The SAP lists the holding time for alkalinity as 14 days. All alkalinity analysis met this holding time.

3.2.2 Cyanide

The cyanide analysis by distillation and spectrophotometry was performed on direct subsamples of the grab samples, grab samples, liner composite samples, and the equipment blank. 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. There were no notable quality control (QC) issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.3 Sulfide

Sulfide analysis by distillation and ion selective electrode was performed on direct subsamples of the grab samples, liner composite samples, and the equipment blank. 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.

3.2.4 pH Analysis

The pH analysis was performed on the grab samples, liner composite samples, and the equipment blank. 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 1 to 6 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 variation in the lapse time for the analysis was due to the time taken between sampling and extrusion/compositing of the liners.

3.2.5 Mercury

Analysis for mercury by cold-vapor/atomic absorption was performed on the equipment blank, and 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.

3.2.6 Ion Chromatography – Ammonium

Analysis for ammonium was performed using a distillation preparation of the grab samples, liner composite samples, and the equipment blank. 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 these 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 17217, 17632, and 18693: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 17391: The RPD exceeded the required 30% at 36%. Since the result for this analyte was below the quantitation limit, the criterion does not apply and reanalysis is not required.

Batch 17605: The RPD exceeded the required 30% at 34%. Since the result for this analyte was below the quantitation limit, the criterion does not apply and reanalysis is not required.

Batches 19029 and 17515: 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 "C". Since all results were below the quantitation limit, reanalysis was not required.

3.2.7 Ion Chromatography – Anions and Small Organic Acids

Ion chromatography analysis was performed on the equipment blank and a standard water digest of subsamples from all grab samples and soil composite samples. In addition, a Vadose water digestion was performed and analyzed on intervals I005 to I010. Only nitrate is reported from this digestion. The Vadose water digestion analysis was performed as a screen to determine subsequent core hole locations and do not necessarily meet all QC requirements. These results are reported in Attachment 1, but are not discussed below.

Fluoride was detected above the quantitation limit in the equipment blank. Since fluoride was not detected in any of the method blanks analyzed with this sample, it can only be assumed that it is present in the water used for the equipment blank and is mostly likely from drinking water fluoridation.

The laboratory met all of the required and target detection limits. For the standard water digest, all analyses were within the applicable holding time except for sample B236P2 (S09V001644), which exceeded the 48-hour (after digestion) holding time by approximately 8 hours. Re-digestion of the sample was not possible due to insufficient sample. 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.

Batch 18015: The RPD for oxalate exceeded the required 30%. However, since the result for this analyte was below the quantitation limit, the criterion does not apply. The low level standard (LLS) recovery for glyolate and acetate were below the 75% requirement in the procedure but met the 50% requirement of SW-846.

Batch 18862: The LLS recovery for glyolate and acetate were below the 75% requirement in the procedure but met the 50% requirement of SW-846.

Batch 19058: Low levels of formate, sulfate, and nitrite were detected in the preparation blank. The sample results for sulfate and nitrate were more than 20 times the blank level; no flag was applied. The blank result was more than 5% of the formate sample result; a "C" flag was applied. Since the formate results in the blank and the samples were below the quantitation limit, reanalysis was not required.

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 "C". Since the sample and blank results were below the quantitation level, reanalysis was not required. The RPDs for acetate and nitrate exceeded the ±30% requirement in the SAP and FSAP, however, since the sample results were below the quantitation limit, this criterion does not apply.

3.2.8 Inductively Coupled Plasma/Atomic Emission Spectroscopy

The ICP/AES analysis was performed on the equipment blank 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, and in some cases, nickel, lead, chromium, and cobalt. These elements have been reported from separate ICP/MS analyses. 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. The overall data usability was not affected. For all other metals reported by ICP/AES, all target and required detection limits were met, with the exception of the target detection limits for beryllium, copper, and zinc in three samples.

Batch 19868: The interference check standards (ICSA) and ICSAB had results below the quantitation limits for europium and neodymium. This indicates spectral interference was occurring. Europium results were not reported due to the high probability that they were the result of interference. The addition to the neodymium signal appeared relatively small based on the ICSA and ICSAB result; neodymium was reported in all samples and "B" flagged as estimated. Low levels of aluminum 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. Low levels of cerium and neodymium were detected in the preparation blank at greater than 5% of the sample results. These results have been flagged with a "C". Since all results for cerium and neodymium were below the quantitation level, reanalysis was not required. The continuous calibration blank CCBs also had the same low level of neodymium. The RPD for strontium exceeded the 30% requirement in the SAP at 39% and a "M" was applied. The sample was reanalyzed with an acceptable RPD; however, this analysis was past the SW-846 holding time of 6 months. The client instructed the laboratory to report the results for the analysis preformed within the holding time. Table 1 compares these results. The laboratory believes the cause of the RPD failure was due to sample inhomogeneity, which was partially caused by using too small a sample aliquot. The reanalysis used a larger aliquot, and the strontium passed; however, two other elements failed their duplicate RPDs in this reanalysis.

Table 1. Strontium Results

Batch 19868 Sample Result	Batch 19868 Duplicate Result	Reanalysis Batch Sample Result	Reanalysis Batch Duplicate Result
26.5 µg/g	39.4 µg/g	27.8 µg/g	27.0 µg/g

The RPD for potassium and lithium exceeded the 30% requirement in the SAP and FSAP; however, since the results for these elements were below the quantitation limit, this criterion does not apply. The MS recoveries for aluminum, calcium, iron, magnesium, 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 MS recoveries for sodium and potassium exceeded the ±25% requirement. All sample results in this batch for sodium and potassium have been flagged with "N". The exact cause for these failures is not known, but inhomogeneity is suspected. Since neither of these were primary analytes, reanalysis was not required. The closing LLS for potassium was recovered below the required ±30% at 46%. Since all but one of the potassium results were above the continuing calibration verification standard (CCV) and one was below the quantitation level and already flagged with a "B", no further action was needed.

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 interference. 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 "N". The exact cause for these failures is not known, but it should be noted that this digestion is not appropriate for measuring silicon in siliceous material. Since none of these were primary analytes, reanalysis was not required. The mid-run 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 "C" flag was applied. Since the blank result was below the quantitation limit, reanalysis was not required.

Batch 20123: The ICSA had results below the quantitation limits for cadmium, europium, neodymium, nickel, manganese, thallium, and uranium, and the ICSAB had a result for neodymium. This could indicate that spectral interference was occurring. However, since cadmium, nickel, manganese, and thallium were recovered in the ICSAB within their required ±20% and the sample results were all nondetect for these elements, reanalysis was not required. Neodymium and palladium results were not reported due to the high probability that they were the result of interference. The recovery for sodium in the closing ICSAB was below the required

80% at 79%. Since the sodium recovery in the ICSA met the ±20% requirement and the only sample in the batch was nondetect for sodium, reanalysis was not required.

Batch 20412: The ICSAB had results 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 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, phosphorous, potassium, and sodium 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.

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.

3.2.9 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 digest analysis, ICP/MS ^{99}Tc analysis was performed on a vadose water digest. The equipment blank was also analyzed by ICPMS for the radioactivity isotopes.

Direct calibration, where a standard containing the isotope and element of interest is used to calibrate the response of the isotope, is the most accurate type of calibration. Standard material is not available for all the isotopes of interest. Those isotopes without available standards are calibrated using the instrument's mass-response curve that is generated by using the intensity/concentration relationship for the available isotope standards. While the isotope results calibrated in this manner are designated "semi-quantitative" in the procedure, the differences in instrument response along the curve are generally small enough across the actinide mass range such that the results generated might be expected to be within similar uncertainties associated with quantitative results (i.e., those obtained directly against an isotope-specific standard).

A similar approach is used to evaluate the recoveries of calibration checks, standards, and spikes. Just as all of the elemental isotopes of interest are not available for calibration, they are also not available for the various QC samples. Because the chemical properties of an element are the same for all of its isotopes, one elemental isotope can be used as a measure for other isotopes of interest. For example, by measuring the recovery of ^{238}U in the various QC samples, the accuracy of the other uranium isotopes also can be evaluated. Table 2 lists the isotopes used for standards and spike samples for ICP-MS analyses. A response curve is derived using the slopes of the

calibration lines of the available isotope standards. Slopes for the isotopes without available standards are then derived from the response curve, and results are calculated using the derived slopes.

Table 2. 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

3.2.9.1 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 the holding time for isotopic analytes as 6 months. 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 laboratory control sample LCS and MS in order to demonstrate method accuracy and presence of possible matrix interference.

Batches 19814 and 19819: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19815: The middle and closing CCBs contained a low level of ^{126}Sn. Tin-126 was detected in the samples bracketed by these CCBs below the quantitation limit. Since all results were below the quantitation limit, reanalysis was not required. These results have been flagged with “B”. The laboratory believes that these results most likely represent some type of interference.

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 “N”.

3.2.9.2 Technetium-99 (Vadose Water Digest)

The required and target detections limit listed in the SAP for ^{99}Tc were met. The SAP lists a holding time of 6 months for isotopic analytes. Three samples, B236P2 (I001), B23KT4 (I002+3), and B238H1 (I004), exceeded the 6-month holding time by approximately 2 weeks. The instruction to perform the vadose water digestion analysis on these samples was not given by the client until 5 months after sampling began. Also, this analysis was not to proceed until it was determined that enough sample was available to perform all the previously required analyses

in the SAP. This probably led to the holding time exceedance. The laboratory does not believe that the holding time exceedance in anyway affected the data quality or usability.

Initially the ^{99}Tc analysis by vadose water digest was assigned to core intervals I005 to I010 as a screen to determine possible core locations or intervals. As such, strict QC protocols were not followed. 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 these batches.

3.2.9.3 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 19809: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19152: The ending LLS for ^{235}U exceeded the ±30% requirement at 69%. This could indicate a low bias for ^{235}U results near the LLS level. However, the lowest sample result for ^{235}U was approximately 20 times the LLS level and the data quality was not affected.

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.

3.2.9.4 Trace Metals

Antimony, arsenic, cadmium, selenium, silver, and thallium were analyzed by ICP/MS to obtain the required detection limits in the SAP. Additionally, some lead, nickel, chromium, and cobalt results were reported from the ICP/MS analyses. Except for the required detection limit for selenium, all required detection limits were met, or the sample results were above the quantitation limit and the sample detection limit criteria do not apply. All target detection limits were met. The required detection limit for selenium was approximately an order of magnitude below the detection limit obtained by ICP/MS. The laboratory does not anticipate reaching this detection limit for future projects. The reporting limit for selenium ranged from 0.1 µg/g to 0.6 µg/g depending on the matrix interference encountered during the analysis. SW-846 lists the holding time for metals as 6 months. All samples were analyzed within the holding time.

Batches 20197, 20312, 20363: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19915: The closing 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 20005: The duplicate RPD for nickel exceeded the 30% requirement at 61%, and the associated results have been flagged with a “M”. The sample was reanalyzed with an acceptable RPD; however, this analysis was past the SW-846 holding time of 6 months. The client instructed the laboratory to report the results for the analysis preformed within the holding time. Table 3 compares these results. The laboratory believes the cause of the RPD failure was due to

sample inhomogeneity, which was partially caused by using too small a sample aliquot. The reanalysis used a large aliquot, and the nickel passed.

Table 3. Nickel Results

Batch 20005 Sample Result	Batch 20005 Duplicate Result	Reanalysis Batch Sample Result	Reanalysis Batch Duplicate Result
7.51 µg/g	14.1 µg/g	5.73 µg/g	5.54 µg/g

Batch 20170: Thallium was detected in the preparation blank below the quantitation level and was detected at a similar level in the samples. The sample results have been flagged with a "C". Since all results were below the quantitation level, reanalysis is not required. The LLSs for thallium exceeded the ±30 requirement a 160% and 176%. This could indicate a high bias. However, since all sample results were below the quantitation limit, 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 "C" 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.

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 except for three ^{3}H analyses that were performed 182 to 183 days after sampling. Holding time tables for these analytes have not been included in Attachment 3. 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

Gamma energy analysis was performed directly on approximately 60 mL of soil from all grab samples, liner composite samples, and the equipment blank. The SAP requires the reporting of all isotopes with positive results above the minimum detectable activity MDA; therefore, isotopes additional to those required in the SAP were reported when detected. The GEA analysis met all the required detection limits in the SAP. The laboratory was unable to meet any of the target detection limits. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.2 Strontium-89/90

Strontium-89/90 analysis was performed on the equipment blank and 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 the equipment blank and 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 limit in the FSAP. There were no notable issues with any of the ^{3}H batches, 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 the equipment blank and 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 and 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 tracer/carrier recovery is 50%.

Batches 19630 and 19135: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 20210: The preparation blank demonstrated a positive result below the quantitation limit, as did the sample. All results had very large counting uncertainties and were below the target detection limit. Because of these factors, reanalysis was not required. The associated results have been flagged with a “B”.

3.3.5 Carbon-14

The ^{14}C analysis by LSC was performed on the equipment blank and 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.

Batch 19131: There were no notable issues with the batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 19715: The preparation blank had a positive result for ^{14}C above the MDA but below the quantitation limit. One sample had a similar result and was flagged with a “B”. All results have large counting errors; therefore, reanalysis was not required.

Batch 19725: The RPD between the sample and the duplicate exceeded the ±30% requirement in the SAP. However, since the results were below the quantitation limit, the criterion does not apply and reanalysis was not required.

3.3.6 Nickel-63

The ^{63}Ni analysis by LSC was performed on the equipment blank and 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 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, liner composite samples, and the equipment blank. The required and target detection limits in the SAP were met. 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 the equipment blank and 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 detection limit in the SAP was met, and all but three samples met the target detection limit. 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 reported 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 the equipment blank and 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. One equipment blank, eight field blanks, and seven trip blanks were also received and analyzed. The samples were preserved with either HCl or H_2SO_4 to a pH < 2.

The holding time for all samples is 14 days. All samples met the required holding time except for sample B236P0 (S09V001622), which was 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 sample was 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 reported 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 8). The SAP and FSAP list methanol as a primary parameter to be analyze using SW846-8260. Because it does not purge well it cannot be analyzing reliably using this method and was not reported. Isobutanol was reported as a semivolatile organic compound.

The equipment blank and 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.

In some cases, the LCS, MS, and 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. All LCS, MS, and MSD recoveries met the ±30% administrative limits in the SAP and FSAP.

Batches 17252, 17427, 17562: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 17236: The method blank contained methylene chloride slightly below the estimated quantitation limit but above the lower end of the calibration range. Methylene chloride was detected above the estimated quantitation level in all samples and was less than 20 times the blank. Therefore, these results have been flagged with a "B". Since the sample and blank results were below the target reporting limit, reanalysis was not required. 4-Methyl-2-pentanone was detected in the blank at a level slightly above the MDL. This compound was not detected in the samples in this batch.

Batch 17485: 4-Methyl-2-pentanone was detected in the blank at a level slightly above the MDL. Two of the five samples in this batch contained 4-methyl-2-pentanone at the same level. These results have been flagged with a "B". Since all results were below the estimated quantitation level, reanalysis was not required.

Batch 17821: The method blank contained acetone slightly below the estimated quantitation limit but above the low limit of calibration range. Acetone was not detected in the samples. The blank result was approximately one-quarter of the target reporting limit.

Batch 18763: The method blank contained acetone and toluene below the estimated quantitation limit. Neither acetone or toluene were detected in the sample. The blank results were well below the required and target reporting limits.

Batch 18921: The method blank contained toluene below the estimated quantitation limit but at greater than 5% of the sample results. All sample results in the batch were flagged with a "B". Since all results were below the estimated quantitation limit and well below the required and target detection limits, reanalysis was not required. The RPD between the MS and MSD exceeded the ±30% requirement in the SAP and FSAP for acetone and 1-butanol at 38% and 36%, respectively. Since neither acetone nor 1-butanol were detected in the samples, reanalysis was not required.

Batch 19861: The method blank contained acetone slightly below the estimated quantitation limit but above the low limit of the calibration range. Acetone was not detected in the samples. The blank result was approximately one-quarter of the target reporting limit.

3.4.2 Semivolatile Organic Analysis

The semivolatile organic analysis (SVOA) by GC/MS was performed on methylene chloride extractions of all grab samples, liner composite samples, and the equipment blank. 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 and 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.

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 reported as m+p cresol.

Batches 17674, 17675, 19182, and 20075: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 17708: Butylbenzylphthalate was detected in the method blank below the quantitation limit. This compound was not detected in the samples.

Batch 18956: Bis(2-ethylhexyl)phthalate was detected in the method blank below the quantitation limit. This compound was not detected in the sample.

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 National Institute of Standards and Technology (NIST) 02, *HP Mass Spectral (compound) Libraries*. 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 4 lists the analytical procedures used for analysis of the C-Farm samples.

Table 4. Analytical Procedures

Analysis	Preparation Method	Analysis Procedure
Inorganic Analyses		
Cyanide	LA-695-103, Rev. J-0 (SW-846 9010C)	LA-695-103, Rev. J-0 (SW-846 9014)
Cyanide	LA-695-102, Rev L-0 (SW846-9010C)	LA-695-102, Rev L-0 (SW846-9014)
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. D-0, E-0	LA-533-101, Rev. Q-0
Anions & Organic Acids – IC	LA-504-101, Rev. L-0, M-0	LA-533-115, Rev. J-0
Anions & Organic Acids – IC	08-ATL-078 Vadose Water Digest	LA-533-115, Rev. J-0
Metals – ICP /AES	LA-505-163, Rev. F-0, G-0 (SW-846 3050B)	LA-505-161, Rev. I-0, J-0-A (SW-846 6010C)
^{99}Tc, ^{126}Sn – ICP/MS	LA-505-163, Rev. F-0 (SW-846 3050B)	LA-506-102, Rev. F-0, F-1
^{99}Tc – ICP/MS	08-ATL-078 Vadose Water Digest	LA-506-102, Rev. E-0, F-1 LA-506-103. Rev. A-0
Metals – ICP/MS	LA-505-163, Rev. F-0 (SW-846 3050B)	LA-506-102, Rev. F-1 LA-506-103. Rev. A-0 (SW-846 6020A)

Analysis	Preparation Method	Analysis Procedure
Actinides – ICP/MS	LA-505-163, Rev. F-0 (SW-846 3050B)	LA-506-102, Rev. F-0, F-1
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
^{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-365-102, 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
^{129}I – Separation/GEA	LA-378-103, Rev K-0	LA-378-103, Rev. K-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-0, G-0-A (SW-846 8260B)
SVOC – GC/MS	LA-523-138, Rev. F-0 (SW-846 3540C)	LA-523-135, Rev. C-0 (SW-846 8270C)

5.0 REFERENCES

ATL-MP-1011, 2009, *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-3877, 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.

Attachment 1

DATA SUMMARY REPORT

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D8
Sample Depth: Equipment Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001597			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
S09V001597			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
S09V001597			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
S09V001597			75-35-4	1,1-Dichloroethene	ug/L	111	<0.172	<0.191	n/a	n/a	n/a	110	0.191	n/a	U
S09V001597			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
S09V001597			71-36-3	1-Butanol	ug/L	79.5	<1.15	<1.28	n/a	n/a	n/a	88.2	1.28	n/a	U
S09V001597			108-10-1	Hexone	ug/L	90.9	<0.453	<0.503	n/a	n/a	n/a	91.8	0.503	n/a	U
S09V001597			67-64-1	Acetone	ug/L	77.2	3.26	<0.637	n/a	n/a	n/a	64.4	0.637	n/a	U
S09V001597			71-43-2	Benzene	ug/L	102	<0.0163	<0.0181	n/a	n/a	n/a	101	0.0181	n/a	U
S09V001597			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S09V001597			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
S09V001597			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.633	n/a	n/a	n/a	n/a	0.0460	n/a	
S09V001597			108-90-7	Chlorobenzene	ug/L	106	<0.0320	<0.0356	n/a	n/a	n/a	104	0.0356	n/a	U
S09V001597			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
S09V001597			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
S09V001597			78-93-3	2-Butanone	ug/L	79.6	<0.458	<0.509	n/a	n/a	n/a	82.3	0.509	n/a	U
S09V001597			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
S09V001597			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
S09V001597			108-88-3	Toluene	ug/L	108	0.144	<0.0580	n/a	n/a	n/a	106	0.0580	n/a	U
S09V001597			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S09V001597			79-01-6	Trichloroethene	ug/L	101	<0.0378	<0.0420	n/a	n/a	n/a	99.2	0.0420	n/a	U
S09V001597			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
S09V001597			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
S09V001597			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
S09V001597			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
S09V001597			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
S09V001597			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
S09V001597			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D8
Sample Depth: Equipment Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001597			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
S09V001597			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
S09V001597			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
S09V001598		O	120-82-1	1,2,4-Trichlorobenzene	ug/L	40.6	<23.8	<25.5	n/a	n/a	n/a	37.7	25.5	n/a	U
S09V001598		O	95-50-1	1,2-Dichlorobenzene	ug/L	n/a	<66.3	<71.1	n/a	n/a	n/a	n/a	71.1	n/a	U
S09V001598		O	121-14-2	2,4-Dinitrotoluene	ug/L	83.1	<12.6	<13.5	n/a	n/a	n/a	82.9	13.5	n/a	U
S09V001598		O	95-95-4	2,4,5-Trichlorophenol	ug/L	n/a	<15.3	<16.3	n/a	n/a	n/a	n/a	16.3	n/a	U
S09V001598		O	88-06-2	2,4,6-Trichlorophenol	ug/L	n/a	<16.0	<17.2	n/a	n/a	n/a	n/a	17.2	n/a	U
S09V001598		O	95-48-7	2-Methylphenol	ug/L	n/a	<19.3	<20.6	n/a	n/a	n/a	n/a	20.6	n/a	U
S09V001598		O	88-75-5	2-Nitrophenol	ug/L	n/a	<20.9	<22.4	n/a	n/a	n/a	n/a	22.4	n/a	U
S09V001598		O	65794-96-9	3 &4 Methylphenol	ug/L	n/a	<19.3	<20.6	n/a	n/a	n/a	n/a	20.6	n/a	U
S09V001598		O	83-32-9	Acenaphthene	ug/L	62.8	<23.5	<25.2	n/a	n/a	n/a	60.6	25.2	n/a	U
S09V001598		O	56-55-3	Benzo(a)anthracene	ug/L	n/a	<16.1	<17.2	n/a	n/a	n/a	n/a	17.2	n/a	U
S09V001598		O	205-99-2	Benzo(b)fluoranthene	ug/L	n/a	<15.4	<16.5	n/a	n/a	n/a	n/a	16.5	n/a	U
S09V001598		O	50-32-8	Benzo(a)pyrene	ug/L	n/a	<14.5	<15.5	n/a	n/a	n/a	n/a	15.5	n/a	U
S09V001598		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/L	n/a	58.2	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S09V001598		O	207-08-9	Benzo(k)fluoranthene	ug/L	n/a	<14.7	<15.8	n/a	n/a	n/a	n/a	15.8	n/a	U
S09V001598		O	85-68-7	Butylbenzylphthalate	ug/L	n/a	<13.7	<14.7	n/a	n/a	n/a	n/a	14.7	n/a	U
S09V001598		O	59-50-7	4-Chloro-3-methylphenol	ug/L	72.0	<16.2	<17.4	n/a	n/a	n/a	67.5	17.4	n/a	U
S09V001598		O	95-57-8	2-Chlorophenol	ug/L	67.5	<22.3	<23.9	n/a	n/a	n/a	62.4	23.9	n/a	U
S09V001598		O	218-01-9	Chrysene	ug/L	n/a	<15.4	<16.5	n/a	n/a	n/a	n/a	16.5	n/a	U
S09V001598		O	53-70-3	Dibenz[a,h]anthracene	ug/L	n/a	<14.5	<15.5	n/a	n/a	n/a	n/a	15.5	n/a	U
S09V001598		O	84-74-2	Di-n-butylphthalate	ug/L	n/a	<13.9	<14.9	n/a	n/a	n/a	n/a	14.9	n/a	U
S09V001598		O	117-84-0	Di-n-octylphthalate	ug/L	n/a	<15.9	<17.0	n/a	n/a	n/a	n/a	17.0	n/a	U
S09V001598		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/L	75.3	<22.3	<23.9	n/a	n/a	n/a	70.9	23.9	n/a	U
S09V001598		O	206-44-0	Fluoranthene	ug/L	n/a	<14.2	<15.3	n/a	n/a	n/a	n/a	15.3	n/a	U
S09V001598		O	87-68-3	Hexachlorobutadiene	ug/L	n/a	<13.1	<14.0	n/a	n/a	n/a	n/a	14.0	n/a	U
S09V001598		O	67-72-1	Hexachloroethane	ug/L	n/a	<8.88	<9.51	n/a	n/a	n/a	n/a	9.51	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D8
Sample Depth: Equipment Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001598		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/L	n/a	<13.9	<14.9	n/a	n/a	n/a	n/a	14.9	n/a	U
S09V001598		O	91-20-3	Naphthalene	ug/L	n/a	<29.3	<31.4	n/a	n/a	n/a	n/a	31.4	n/a	U
S09V001598		O	98-95-3	Nitrobenzene	ug/L	n/a	<21.9	<23.5	n/a	n/a	n/a	n/a	23.5	n/a	U
S09V001598		O	129-00-0	Pyrene	ug/L	93.0	<14.8	<15.8	n/a	n/a	n/a	86.7	15.8	n/a	U
S09V001598		O	110-86-1	Pyridine	ug/L	n/a	<29.1	<31.2	n/a	n/a	n/a	n/a	31.2	n/a	U
S09V001598		O	126-73-8	Tributyl phosphate	ug/L	n/a	<5.95	<6.37	n/a	n/a	n/a	n/a	6.37	n/a	U
S09V001598		O	128-37-0	BHT	ug/L	n/a	<90.6	<97.1	n/a	n/a	n/a	n/a	97.1	n/a	U
S09V001598		O	110-80-5	2-Ethoxyethanol	ug/L	n/a	<68.5	<73.4	n/a	n/a	n/a	n/a	73.4	n/a	U
S09V001598		O	1319-77-3	Total Methylphenols	ug/L	n/a	<38.3	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S09V001598		O	108-94-1	Cyclohexanone	ug/L	n/a	<40.7	<43.6	n/a	n/a	n/a	n/a	43.6	n/a	U
S09V001598		O	59-89-2	N-Nitrosomorpholine	ug/L	n/a	<135	<144	n/a	n/a	n/a	n/a	144	n/a	U
S09V001598		O	78-83-1	Isobutanol	ug/L	n/a	<351	<376	n/a	n/a	n/a	n/a	376	n/a	U
S09V001599			7439-97-6	Mercury	ug/mL	100	<1.00E-04	<4.00E-04	<4.00E-04	n/a	n/a	95.7	4.00E-04	n/a	U
S09V001599			7440-22-4	Silver	ug/mL	96.1	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	95.2	5.00E-03	n/a	U
S09V001599			7429-90-5	Aluminum	ug/mL	102	<0.0300	<0.0300	<0.0300	n/a	n/a	101	0.0300	n/a	U
S09V001599			7440-38-2	Arsenic	ug/mL	100	<0.0500	<0.0500	<0.0500	n/a	n/a	101	0.0500	n/a	U
S09V001599			7440-39-3	Barium	ug/mL	101	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	98.3	3.00E-03	n/a	U
S09V001599			7440-41-7	Beryllium	ug/mL	101	<1.00E-03	<1.00E-03	<1.00E-03	n/a	n/a	99.2	1.00E-03	n/a	U
S09V001599			7440-70-2	Calcium	ug/mL	101	<0.0500	<0.0500	<0.0500	n/a	n/a	102	0.0500	n/a	U
S09V001599			7440-43-9	Cadmium	ug/mL	102	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	102	5.00E-03	n/a	U
S09V001599			7440-48-4	Cobalt	ug/mL	103	<0.0100	<0.0100	<0.0100	n/a	n/a	102	0.0100	n/a	U
S09V001599			7440-47-3	Chromium	ug/mL	103	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	102	5.00E-03	n/a	U
S09V001599			7440-50-8	Copper	ug/mL	99.0	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	97.8	5.00E-03	n/a	U
S09V001599			7439-89-6	Iron	ug/mL	102	<5.00E-03	0.0110	0.0106	0.0108	3.98	99.5	5.00E-03	n/a	B
S09V001599			7440-09-7	Potassium	ug/mL	93.9	<0.500	<0.500	<0.500	n/a	n/a	96.3	0.500	n/a	U
S09V001599			7439-93-2	Lithium	ug/mL	98.8	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	96.3	3.00E-03	n/a	U
S09V001599			7439-95-4	Magnesium	ug/mL	101	<0.0500	<0.0500	<0.0500	n/a	n/a	97.9	0.0500	n/a	U
S09V001599			7439-96-5	Manganese	ug/mL	102	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	102	3.00E-03	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D8
Sample Depth: Equipment Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001599			7439-98-7	Molybdenum	ug/mL	103	<0.0200	<0.0200	<0.0200	n/a	n/a	100	0.0200	n/a	U
S09V001599			7440-23-5	Sodium	ug/mL	99.0	<0.100	<0.100	0.106	0.103	5.49	99.3	0.100	n/a	U
S09V001599			7440-02-0	Nickel	ug/mL	101	<0.0200	<0.0200	<0.0200	n/a	n/a	100	0.0200	n/a	U
S09V001599			7723-14-0	Phosphorus	ug/mL	99.8	<0.0500	<0.0500	<0.0500	n/a	n/a	100	0.0500	n/a	U
S09V001599			7439-92-1	Lead	ug/mL	104	<0.0500	<0.0500	<0.0500	n/a	n/a	101	0.0500	n/a	U
S09V001599			7440-36-0	Antimony	ug/mL	100	<0.0500	<0.0500	<0.0500	n/a	n/a	98.4	0.0500	n/a	U
S09V001599			7782-49-2	Selenium	ug/mL	104	<0.100	<0.100	<0.100	n/a	n/a	103	0.100	n/a	U
S09V001599			7440-24-6	Strontium	ug/mL	100	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	97.8	3.00E-03	n/a	U
S09V001599			7440-28-0	Thallium	ug/mL	103	<0.100	<0.100	<0.100	n/a	n/a	101	0.100	n/a	U
S09V001599			7440-62-2	Vanadium	ug/mL	104	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	101	5.00E-03	n/a	U
S09V001599			7440-66-6	Zinc	ug/mL	101	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	99.2	5.00E-03	n/a	U
S09V001599			14269-63-7	Thorium-230	ug/mL	n/a	<7.00E-09	2.20E-08	2.60E-08	2.40E-08	16.7	n/a	1.40E-08	n/a	
S09V001599			TH-232	Thorium-232	ug/mL	102	<1.70E-07	<3.40E-07	<3.40E-07	n/a	n/a	99.8	3.40E-07	n/a	U
S09V001599			13968-55-3	Uranium-233	ug/mL	n/a	<1.00E-08	<2.00E-08	<2.00E-08	n/a	n/a	n/a	2.00E-08	n/a	U
S09V001599			13966-29-5	Uranium-234	ug/mL	n/a	<5.00E-09	<1.00E-08	<1.00E-08	n/a	n/a	n/a	1.00E-08	n/a	U
S09V001599			15117-96-1	Uranium-235	ug/mL	103	<1.10E-08	<2.20E-08	<2.20E-08	n/a	n/a	98.7	2.20E-08	n/a	U
S09V001599			13982-70-2	Uranium-236	ug/mL	n/a	<4.00E-09	<8.00E-09	<8.00E-09	n/a	n/a	n/a	8.00E-09	n/a	U
S09V001599			13994-20-2	Neptunium-237	ug/mL	101	<5.30E-08	<1.06E-07	<1.06E-07	n/a	n/a	98.1	1.06E-07	n/a	U
S09V001599			U-238	Uranium-238	ug/mL	99.9	<5.50E-07	<1.10E-06	<1.10E-06	n/a	n/a	99.6	1.10E-06	n/a	U
S09V001599			14133-76-7	Technetium-99	ug/mL	96.0	<3.00E-07	<6.00E-07	<6.00E-07	n/a	n/a	98.8	6.00E-07	n/a	U
S09V001599			SN-117	Tin-117	ug/mL	105	<1.10E-05	<2.20E-05	<2.20E-05	n/a	n/a	104	2.20E-05	n/a	U
S09V001599			15832-50-5	Tin-126	ug/mL	n/a	<2.00E-07	<4.00E-07	<4.00E-07	n/a	n/a	n/a	4.00E-07	n/a	U
S09V001600			14762-75-5	Carbon-14	uCi/mL	94.0	<1.36E-07	<1.36E-07	<1.36E-07	n/a	n/a	91.8	1.36E-07	n/a	U
S09V001600			15046-84-1	Iodine-129	uCi/mL	109	<9.90E-08	<9.50E-08	<9.54E-08	n/a	n/a	n/a	9.50E-08	n/a	U
S09V001600			10028-17-8	Tritium	uCi/mL	99.3	4.40E-07	<3.39E-07	3.99E-07	n/a	n/a	96.5	3.39E-07	n/a	U
S09V001601			CM-243/244	Curium-243/244	uCi/mL	n/a	<9.49E-09	<7.54E-09	<8.10E-09	n/a	n/a	n/a	7.54E-09	n/a	U
S09V001601			14596-10-2	Americium-241	uCi/mL	99.2	<2.37E-08	<1.89E-08	<2.02E-08	n/a	n/a	n/a	1.89E-08	n/a	U
S09V001601			15510-73-3	Curium-242	uCi/mL	n/a	<9.49E-09	<7.54E-09	<8.10E-09	n/a	n/a	n/a	7.54E-09	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D8
Sample Depth: Equipment Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001601			10198-40-0	Cobalt-60	uCi/mL	99.4	<2.01E-07	<2.17E-07	<2.03E-07	n/a	n/a	n/a	2.17E-07	n/a	U
S09V001601			14234-35-6	Antimony-125	uCi/mL	n/a	<5.04E-07	<4.85E-07	<5.21E-07	n/a	n/a	n/a	4.85E-07	n/a	U
S09V001601			10045-97-3	Cesium-137	uCi/mL	102	<2.55E-07	<2.63E-07	<2.13E-07	n/a	n/a	n/a	2.63E-07	n/a	U
S09V001601			14683-23-9	Europium-152	uCi/mL	n/a	<1.01E-06	<9.57E-07	<9.43E-07	n/a	n/a	n/a	9.57E-07	n/a	U
S09V001601			15585-10-1	Europium-154	uCi/mL	n/a	<6.30E-07	<5.71E-07	<6.34E-07	n/a	n/a	n/a	5.71E-07	n/a	U
S09V001601			14391-16-3	Europium-155	uCi/mL	n/a	<3.38E-07	<3.23E-07	<3.36E-07	n/a	n/a	n/a	3.23E-07	n/a	U
S09V001601			14274-82-9	Thorium-228	uCi/mL	n/a	<6.00E-06	<6.07E-06	<6.06E-06	n/a	n/a	n/a	6.07E-06	n/a	U
S09V001601			15065-10-8	Thorium-234	uCi/mL	n/a	<1.90E-06	<1.92E-06	<1.96E-06	n/a	n/a	n/a	1.92E-06	n/a	U
S09V001601			13981-37-8	Nickel-63	uCi/mL	102	<2.29E-07	<2.37E-07	<2.35E-07	n/a	n/a	n/a	2.37E-07	n/a	U
S09V001601			PU-239/240	Plutonium-239/240	uCi/mL	99.7	<1.31E-08	<1.38E-08	<1.18E-08	n/a	n/a	n/a	1.38E-08	n/a	U
S09V001601			13981-16-3	Plutonium-238	uCi/mL	n/a	<1.31E-08	<1.38E-08	<1.18E-08	n/a	n/a	n/a	1.38E-08	n/a	U
S09V001601			15758-45-9	Selenium-79	uCi/mL	n/a	<1.91E-07	<1.57E-07	<1.55E-07	n/a	n/a	n/a	1.57E-07	n/a	U
S09V001601			SR-89/90	Strontium-89/90	uCi/mL	99.1	<1.89E-08	<5.62E-08	<2.06E-08	n/a	n/a	n/a	5.62E-08	n/a	U
S09V001602			16984-48-8	Fluoride	ug/mL	103	<1.61E-03	0.0772	0.0785	0.0778	1.67	100	1.61E-03	n/a	
S09V001602			GLYCOLAT	Glycolate	ug/mL	98.6	<9.37E-03	<9.37E-03	<9.37E-03	n/a	n/a	95.5	9.37E-03	n/a	U
S09V001602			71-50-1	Acetate	ug/mL	95.5	<6.04E-03	<6.04E-03	<6.04E-03	n/a	n/a	92.4	6.04E-03	n/a	U
S09V001602			FORMATE	Formate	ug/mL	99.8	<4.67E-03	9.13E-03	8.85E-03	8.99E-03	3.11	96.1	4.67E-03	n/a	B
S09V001602			16887-00-6	Chloride	ug/mL	99.7	<9.98E-03	<9.98E-03	<9.98E-03	n/a	n/a	96.1	9.98E-03	n/a	U
S09V001602			14797-65-0	Nitrite	ug/mL	101	<0.0192	<0.0192	<0.0192	n/a	n/a	97.3	0.0192	n/a	U
S09V001602			14808-79-8	Sulfate	ug/mL	102	<0.0187	<0.0187	<0.0187	n/a	n/a	98.3	0.0187	n/a	U
S09V001602			338-70-5	Oxalate	ug/mL	100	<0.0231	<0.0231	<0.0231	n/a	n/a	97.1	0.0231	n/a	U
S09V001602			24959-67-9	Bromide	ug/mL	103	<0.0580	<0.0580	<0.0580	n/a	n/a	96.8	0.0580	n/a	U
S09V001602			14797-55-8	Nitrate	ug/mL	100	<0.0208	<0.0208	<0.0208	n/a	n/a	95.6	0.0208	n/a	U
S09V001602			14265-44-2	Phosphate	ug/mL	100	<0.0167	<0.0167	<0.0167	n/a	n/a	96.4	0.0167	n/a	U
S09V001602			PH	pH	unitless	n/a	n/a	5.40	5.42	5.41	0.370	n/a	0.0100	n/a	
S09V001603			12597-04-5	Sulfide	ug/mL	90.1	<0.180	<0.450	<0.450	n/a	n/a	93.8	0.450	n/a	U
S09V001604			57-12-5	Cyanide	ug/mL	96.4	<0.0370	<0.185	<0.185	n/a	n/a	105	0.185	n/a	U
S09V001605		S	14798-03-9	Ammonium	ug/mL	99.5	<0.120	<0.120	<0.120	n/a	n/a	98.3	0.120	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

28 - Feb - 2011 14:42:36
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238C8
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
S09V001592			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
S09V001592			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
S09V001592			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
S09V001592			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
S09V001592			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
S09V001592			71-36-3	1-Butanol	ug/L	97.7	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S09V001592			108-10-1	Hexone	ug/L	113	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S09V001592			67-64-1	Acetone	ug/L	118	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S09V001592			71-43-2	Benzene	ug/L	103	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S09V001592			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S09V001592			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
S09V001592			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.847	n/a	n/a	n/a	n/a	0.0460	n/a	
S09V001592			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S09V001592			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
S09V001592			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
S09V001592			78-93-3	2-Butanone	ug/L	109	<0.458	1.83	n/a	n/a	n/a	n/a	0.509	n/a	J
S09V001592			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
S09V001592			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
S09V001592			108-88-3	Toluene	ug/L	102	<0.0522	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S09V001592			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S09V001592			79-01-6	Trichloroethene	ug/L	100	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S09V001592			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
S09V001592			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
S09V001592			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
S09V001592			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
S09V001592			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
S09V001592			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
S09V001592			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

28 - Feb - 2011 14:42:36
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238C8
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
S09V001592			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
S09V001592			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
S09V001592			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

28 - Feb - 2011 14:42:36
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238C9
Sample Depth: Field Blank 2

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001593			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
S09V001593			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
S09V001593			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
S09V001593			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
S09V001593			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
S09V001593			71-36-3	1-Butanol	ug/L	97.7	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S09V001593			108-10-1	Hexone	ug/L	113	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S09V001593			67-64-1	Acetone	ug/L	118	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S09V001593			71-43-2	Benzene	ug/L	103	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S09V001593			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S09V001593			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
S09V001593			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.866	n/a	n/a	n/a	n/a	0.0460	n/a	
S09V001593			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S09V001593			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
S09V001593			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
S09V001593			78-93-3	2-Butanone	ug/L	109	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S09V001593			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
S09V001593			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
S09V001593			108-88-3	Toluene	ug/L	102	<0.0522	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S09V001593			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S09V001593			79-01-6	Trichloroethene	ug/L	100	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S09V001593			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
S09V001593			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
S09V001593			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
S09V001593			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
S09V001593			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
S09V001593			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
S09V001593			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

28 - Feb - 2011 14:42:36
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238C9
Sample Depth: Field Blank 2

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001593			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
S09V001593			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
S09V001593			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

28 - Feb - 2011 14:42:36
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D0
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
S09V001594			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
S09V001594			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
S09V001594			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
S09V001594			75-35-4	1,1-Dichloroethene	ug/L	95.8	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S09V001594			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
S09V001594			71-36-3	1-Butanol	ug/L	71.4	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S09V001594			108-10-1	Hexone	ug/L	90.7	1.07	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S09V001594			67-64-1	Acetone	ug/L	77.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S09V001594			71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S09V001594			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S09V001594			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
S09V001594			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.817	n/a	n/a	n/a	n/a	0.0460	n/a	
S09V001594			108-90-7	Chlorobenzene	ug/L	99.1	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S09V001594			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
S09V001594			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
S09V001594			78-93-3	2-Butanone	ug/L	79.2	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S09V001594			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
S09V001594			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
S09V001594			108-88-3	Toluene	ug/L	101	<0.0522	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S09V001594			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S09V001594			79-01-6	Trichloroethene	ug/L	96.1	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S09V001594			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
S09V001594			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
S09V001594			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
S09V001594			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
S09V001594			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
S09V001594			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
S09V001594			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D0
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
S09V001594			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
S09V001594			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
S09V001594			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

28 - Feb - 2011 14:42:36
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D1
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
S09V001595			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
S09V001595			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
S09V001595			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
S09V001595			75-35-4	1,1-Dichloroethene	ug/L	95.8	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S09V001595			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
S09V001595			71-36-3	1-Butanol	ug/L	71.4	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S09V001595			108-10-1	Hexone	ug/L	90.7	1.07	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S09V001595			67-64-1	Acetone	ug/L	77.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S09V001595			71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S09V001595			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S09V001595			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
S09V001595			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.733	n/a	n/a	n/a	n/a	0.0460	n/a	
S09V001595			108-90-7	Chlorobenzene	ug/L	99.1	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S09V001595			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
S09V001595			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
S09V001595			78-93-3	2-Butanone	ug/L	79.2	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S09V001595			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
S09V001595			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
S09V001595			108-88-3	Toluene	ug/L	101	<0.0522	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S09V001595			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S09V001595			79-01-6	Trichloroethene	ug/L	96.1	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S09V001595			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
S09V001595			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
S09V001595			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
S09V001595			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
S09V001595			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
S09V001595			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
S09V001595			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D1
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
S09V001595			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
S09V001595			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
S09V001595			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D2
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
S09V001596			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
S09V001596			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
S09V001596			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
S09V001596			75-35-4	1,1-Dichloroethene	ug/L	96.5	<0.172	<0.191	n/a	n/a	n/a	88.1	0.191	n/a	U
S09V001596			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
S09V001596			71-36-3	1-Butanol	ug/L	93.9	<1.15	<1.28	n/a	n/a	n/a	84.2	1.28	n/a	U
S09V001596			108-10-1	Hexone	ug/L	94.6	<0.453	<0.503	n/a	n/a	n/a	95.6	0.503	n/a	U
S09V001596			67-64-1	Acetone	ug/L	105	5.72	<0.637	n/a	n/a	n/a	88.7	0.637	n/a	U
S09V001596			71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	92.2	0.0181	n/a	U
S09V001596			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S09V001596			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
S09V001596			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.671	n/a	n/a	n/a	n/a	0.0460	n/a	
S09V001596			108-90-7	Chlorobenzene	ug/L	99.3	<0.0320	<0.0356	n/a	n/a	n/a	97.3	0.0356	n/a	U
S09V001596			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
S09V001596			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
S09V001596			78-93-3	2-Butanone	ug/L	92.6	0.818	<0.509	n/a	n/a	n/a	85.8	0.509	n/a	U
S09V001596			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
S09V001596			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
S09V001596			108-88-3	Toluene	ug/L	99.4	<0.0522	<0.0580	n/a	n/a	n/a	98.2	0.0580	n/a	U
S09V001596			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S09V001596			79-01-6	Trichloroethene	ug/L	102	<0.0378	<0.0420	n/a	n/a	n/a	91.9	0.0420	n/a	U
S09V001596			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
S09V001596			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
S09V001596			156-60-5	trans-Dichloroethylene	ug/L	n/a	n/a	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S09V001596			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
S09V001596			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
S09V001596			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
S09V001596			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D2
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
S09V001596			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
S09V001596			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
S09V001596			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238F2
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
S10V000073			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
S10V000073			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
S10V000073			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
S10V000073			75-35-4	1,1-Dichloroethene	ug/L	96.5	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000073			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
S10V000073			71-36-3	1-Butanol	ug/L	93.9	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000073			108-10-1	Hexone	ug/L	94.6	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000073			67-64-1	Acetone	ug/L	105	5.72	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000073			71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V000073			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000073			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
S10V000073			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.645	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000073			108-90-7	Chlorobenzene	ug/L	99.3	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000073			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
S10V000073			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
S10V000073			78-93-3	2-Butanone	ug/L	92.6	0.818	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000073			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
S10V000073			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
S10V000073			108-88-3	Toluene	ug/L	99.4	<0.0522	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V000073			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000073			79-01-6	Trichloroethene	ug/L	102	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000073			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
S10V000073			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
S10V000073			156-60-5	trans-Dichloroethylene	ug/L	n/a	n/a	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000073			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
S10V000073			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
S10V000073			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
S10V000073			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238F2
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
S10V000073			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
S10V000073			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
S10V000073			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238F3
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
S10V000083		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
S10V000083		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
S10V000083		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
S10V000083		75-35-4	1,1-Dichloroethene	ug/L	96.5	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000083		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
S10V000083		71-36-3	1-Butanol	ug/L	93.9	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000083		108-10-1	Hexone	ug/L	94.6	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000083		67-64-1	Acetone	ug/L	105	5.72	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000083		71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V000083		75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000083		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
S10V000083		67-66-3	Chloroform	ug/L	n/a	<0.0414	0.675	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000083		108-90-7	Chlorobenzene	ug/L	99.3	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000083		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
S10V000083		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
S10V000083		78-93-3	2-Butanone	ug/L	92.6	0.818	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000083		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
S10V000083		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
S10V000083		108-88-3	Toluene	ug/L	99.4	<0.0522	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V000083		10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000083		79-01-6	Trichloroethene	ug/L	102	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000083		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
S10V000083		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
S10V000083		156-60-5	trans-Dichloroethylene	ug/L	n/a	n/a	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000083		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
S10V000083		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
S10V000083		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
S10V000083		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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238F3
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
S10V000083			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
S10V000083			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
S10V000083			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238F4
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
S10V000814			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
S10V000814			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
S10V000814			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
S10V000814			75-35-4	1,1-Dichloroethene	ug/L	111	<0.172	<0.191	n/a	n/a	n/a	106	0.191	n/a	U
S10V000814			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
S10V000814			71-36-3	1-Butanol	ug/L	106	<1.15	<1.28	n/a	n/a	n/a	96.4	1.28	n/a	U
S10V000814			108-10-1	Hexone	ug/L	114	<0.453	<0.503	n/a	n/a	n/a	103	0.503	n/a	U
S10V000814			67-64-1	Acetone	ug/L	123	4.86	<0.637	n/a	n/a	n/a	73.8	0.637	n/a	U
S10V000814			71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	94.9	0.0181	n/a	U
S10V000814			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000814			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
S10V000814			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.649	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000814			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	94.5	0.0356	n/a	U
S10V000814			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
S10V000814			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
S10V000814			78-93-3	2-Butanone	ug/L	103	<0.458	<0.509	n/a	n/a	n/a	94.5	0.509	n/a	U
S10V000814			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
S10V000814			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
S10V000814			108-88-3	Toluene	ug/L	105	0.0849	<0.0580	n/a	n/a	n/a	98.0	0.0580	n/a	U
S10V000814			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000814			79-01-6	Trichloroethene	ug/L	98.5	<0.0378	<0.0420	n/a	n/a	n/a	91.9	0.0420	n/a	U
S10V000814			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
S10V000814			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
S10V000814			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
S10V000814			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
S10V000814			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
S10V000814			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
S10V000814			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238F4
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
S10V000814			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
S10V000814			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
S10V000814			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D3
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
S09V001587			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
S09V001587			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
S09V001587			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
S09V001587			75-35-4	1,1-Dichloroethene	ug/L	108	<0.172	<0.191	n/a	n/a	n/a	106	0.191	n/a	U
S09V001587			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
S09V001587			71-36-3	1-Butanol	ug/L	97.7	<1.15	<1.28	n/a	n/a	n/a	92.7	1.28	n/a	U
S09V001587			108-10-1	Hexone	ug/L	113	<0.453	<0.503	n/a	n/a	n/a	105	0.503	n/a	U
S09V001587			67-64-1	Acetone	ug/L	118	<0.573	<0.637	n/a	n/a	n/a	117	0.637	n/a	U
S09V001587			71-43-2	Benzene	ug/L	103	<0.0163	0.0599	n/a	n/a	n/a	97.9	0.0181	n/a	J
S09V001587			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S09V001587			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
S09V001587			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.853	n/a	n/a	n/a	n/a	0.0460	n/a	
S09V001587			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	95.1	0.0356	n/a	U
S09V001587			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
S09V001587			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
S09V001587			78-93-3	2-Butanone	ug/L	109	<0.458	<0.509	n/a	n/a	n/a	102	0.509	n/a	U
S09V001587			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
S09V001587			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
S09V001587			108-88-3	Toluene	ug/L	102	<0.0522	<0.0580	n/a	n/a	n/a	99.2	0.0580	n/a	U
S09V001587			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S09V001587			79-01-6	Trichloroethene	ug/L	100	<0.0378	<0.0420	n/a	n/a	n/a	97.1	0.0420	n/a	U
S09V001587			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
S09V001587			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
S09V001587			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
S09V001587			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
S09V001587			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
S09V001587			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
S09V001587			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D3
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
S09V001587			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
S09V001587			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
S09V001587			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D4
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
S09V001588			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
S09V001588			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
S09V001588			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
S09V001588			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
S09V001588			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
S09V001588			71-36-3	1-Butanol	ug/L	97.7	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S09V001588			108-10-1	Hexone	ug/L	113	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S09V001588			67-64-1	Acetone	ug/L	118	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S09V001588			71-43-2	Benzene	ug/L	103	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S09V001588			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S09V001588			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
S09V001588			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.854	n/a	n/a	n/a	n/a	0.0460	n/a	
S09V001588			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S09V001588			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
S09V001588			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
S09V001588			78-93-3	2-Butanone	ug/L	109	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S09V001588			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
S09V001588			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
S09V001588			108-88-3	Toluene	ug/L	102	<0.0522	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S09V001588			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S09V001588			79-01-6	Trichloroethene	ug/L	100	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S09V001588			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
S09V001588			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
S09V001588			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
S09V001588			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
S09V001588			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
S09V001588			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
S09V001588			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D4
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
S09V001588			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
S09V001588			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
S09V001588			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D5
Sample Depth: Trip Blank 3

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001589			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
S09V001589			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
S09V001589			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
S09V001589			75-35-4	1,1-Dichloroethene	ug/L	95.8	<0.172	<0.191	n/a	n/a	n/a	95.6	0.191	n/a	U
S09V001589			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
S09V001589			71-36-3	1-Butanol	ug/L	71.4	<1.15	<1.28	n/a	n/a	n/a	80.0	1.28	n/a	U
S09V001589			108-10-1	Hexone	ug/L	90.7	1.07	1.14	n/a	n/a	n/a	87.7	0.503	n/a	BJ
S09V001589			67-64-1	Acetone	ug/L	77.9	<0.573	<0.637	n/a	n/a	n/a	86.1	0.637	n/a	U
S09V001589			71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	93.6	0.0181	n/a	U
S09V001589			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S09V001589			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
S09V001589			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.751	n/a	n/a	n/a	n/a	0.0460	n/a	
S09V001589			108-90-7	Chlorobenzene	ug/L	99.1	<0.0320	<0.0356	n/a	n/a	n/a	94.0	0.0356	n/a	U
S09V001589			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
S09V001589			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
S09V001589			78-93-3	2-Butanone	ug/L	79.2	<0.458	<0.509	n/a	n/a	n/a	83.5	0.509	n/a	U
S09V001589			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
S09V001589			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
S09V001589			108-88-3	Toluene	ug/L	101	<0.0522	<0.0580	n/a	n/a	n/a	97.0	0.0580	n/a	U
S09V001589			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S09V001589			79-01-6	Trichloroethene	ug/L	96.1	<0.0378	<0.0420	n/a	n/a	n/a	93.4	0.0420	n/a	U
S09V001589			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
S09V001589			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
S09V001589			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
S09V001589			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
S09V001589			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
S09V001589			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
S09V001589			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D5
Sample Depth: Trip Blank 3

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001589			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
S09V001589			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
S09V001589			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

28 - Feb - 2011 14:42:36
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D6
Sample Depth: Trip Blank 4

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001590			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
S09V001590			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
S09V001590			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
S09V001590			75-35-4	1,1-Dichloroethene	ug/L	95.8	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S09V001590			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
S09V001590			71-36-3	1-Butanol	ug/L	71.4	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S09V001590			108-10-1	Hexone	ug/L	90.7	1.07	1.09	n/a	n/a	n/a	n/a	0.503	n/a	BJ
S09V001590			67-64-1	Acetone	ug/L	77.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S09V001590			71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S09V001590			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S09V001590			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
S09V001590			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.792	n/a	n/a	n/a	n/a	0.0460	n/a	
S09V001590			108-90-7	Chlorobenzene	ug/L	99.1	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S09V001590			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
S09V001590			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
S09V001590			78-93-3	2-Butanone	ug/L	79.2	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S09V001590			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
S09V001590			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
S09V001590			108-88-3	Toluene	ug/L	101	<0.0522	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S09V001590			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S09V001590			79-01-6	Trichloroethene	ug/L	96.1	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S09V001590			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
S09V001590			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
S09V001590			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
S09V001590			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
S09V001590			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
S09V001590			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
S09V001590			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D6
Sample Depth: Trip Blank 4

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001590			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
S09V001590			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
S09V001590			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

28 - Feb - 2011 14:42:36
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D7
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
S09V001591			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
S09V001591			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
S09V001591			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
S09V001591			75-35-4	1,1-Dichloroethene	ug/L	95.8	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S09V001591			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
S09V001591			71-36-3	1-Butanol	ug/L	71.4	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S09V001591			108-10-1	Hexone	ug/L	90.7	1.07	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S09V001591			67-64-1	Acetone	ug/L	77.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S09V001591			71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S09V001591			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S09V001591			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
S09V001591			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.779	n/a	n/a	n/a	n/a	0.0460	n/a	
S09V001591			108-90-7	Chlorobenzene	ug/L	99.1	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S09V001591			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
S09V001591			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
S09V001591			78-93-3	2-Butanone	ug/L	79.2	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S09V001591			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
S09V001591			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
S09V001591			108-88-3	Toluene	ug/L	101	<0.0522	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S09V001591			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S09V001591			79-01-6	Trichloroethene	ug/L	96.1	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S09V001591			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
S09V001591			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
S09V001591			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
S09V001591			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
S09V001591			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
S09V001591			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
S09V001591			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D7
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
S09V001591			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
S09V001591			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
S09V001591			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D9
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
S10V000072			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
S10V000072			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
S10V000072			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
S10V000072			75-35-4	1,1-Dichloroethene	ug/L	96.5	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000072			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
S10V000072			71-36-3	1-Butanol	ug/L	93.9	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000072			108-10-1	Hexone	ug/L	94.6	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000072			67-64-1	Acetone	ug/L	105	5.72	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000072			71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V000072			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000072			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
S10V000072			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.711	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000072			108-90-7	Chlorobenzene	ug/L	99.3	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000072			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
S10V000072			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
S10V000072			78-93-3	2-Butanone	ug/L	92.6	0.818	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000072			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
S10V000072			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
S10V000072			108-88-3	Toluene	ug/L	99.4	<0.0522	0.0692	n/a	n/a	n/a	n/a	0.0580	n/a	J
S10V000072			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000072			79-01-6	Trichloroethene	ug/L	102	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000072			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
S10V000072			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
S10V000072			156-60-5	trans-Dichloroethylene	ug/L	n/a	n/a	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000072			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
S10V000072			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
S10V000072			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
S10V000072			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238D9
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
S10V000072			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
S10V000072			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
S10V000072			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238F0
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
S10V000082			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
S10V000082			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
S10V000082			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
S10V000082			75-35-4	1,1-Dichloroethene	ug/L	96.5	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V000082			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
S10V000082			71-36-3	1-Butanol	ug/L	93.9	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V000082			108-10-1	Hexone	ug/L	94.6	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V000082			67-64-1	Acetone	ug/L	105	5.72	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V000082			71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V000082			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V000082			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
S10V000082			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.695	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V000082			108-90-7	Chlorobenzene	ug/L	99.3	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V000082			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
S10V000082			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
S10V000082			78-93-3	2-Butanone	ug/L	92.6	0.818	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V000082			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
S10V000082			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
S10V000082			108-88-3	Toluene	ug/L	99.4	<0.0522	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V000082			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V000082			79-01-6	Trichloroethene	ug/L	102	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V000082			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
S10V000082			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
S10V000082			156-60-5	trans-Dichloroethylene	ug/L	n/a	n/a	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V000082			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
S10V000082			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
S10V000082			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
S10V000082			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090875
Core Number: C7472
Customer Sample ID: B238F0
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
S10V000082			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
S10V000082			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
S10V000082			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

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N5
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001613		%WATERA	%WATER-APD	%	n/a	n/a	5.000	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001613		57-12-5	Cyanide	ug/g	97.0	<0.0370	<2.45	n/a	n/a	n/a	n/a	2.45	n/a	U
S09V001613		7439-97-6	Mercury	ug/g	102	<1.00E-04	0.0304	n/a	n/a	n/a	97.2	9.33E-03	n/a	B
S09V001613		PH	pH	unitless	n/a	n/a	8.91	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001613		12597-04-5	Sulfide	ug/g	89.6	<0.180	29.3	n/a	n/a	n/a	n/a	7.08	n/a	B
S09V001614		13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.00E-05	n/a	n/a	n/a	n/a	5.09E-06	33.79	
S09V001614		10198-40-0	Cobalt-60	uCi/g	98.6	<2.21E-07	<2.42E-07	n/a	n/a	n/a	n/a	2.42E-07	n/a	U
S09V001614		14234-35-6	Antimony-125	uCi/g	n/a	<5.73E-07	<7.13E-07	n/a	n/a	n/a	n/a	7.13E-07	n/a	U
S09V001614		10045-97-3	Cesium-137	uCi/g	102	<2.87E-07	1.74E-06	n/a	n/a	n/a	n/a	2.92E-07	14.38	
S09V001614		14683-23-9	Europium-152	uCi/g	n/a	<1.08E-06	<1.32E-06	n/a	n/a	n/a	n/a	1.32E-06	n/a	U
S09V001614		15585-10-1	Europium-154	uCi/g	n/a	<7.65E-07	<8.11E-07	n/a	n/a	n/a	n/a	8.11E-07	n/a	U
S09V001614		14391-16-3	Europium-155	uCi/g	n/a	<3.66E-07	<4.35E-07	n/a	n/a	n/a	n/a	4.35E-07	n/a	U
S09V001614		15092-94-1	Lead-212	uCi/g	n/a	n/a	5.66E-07	n/a	n/a	n/a	n/a	3.95E-07	25.44	
S09V001614		14274-82-9	Thorium-228	uCi/g	n/a	<6.41E-06	<8.25E-06	n/a	n/a	n/a	n/a	8.25E-06	n/a	U
S09V001614		15065-10-8	Thorium-234	uCi/g	n/a	<2.05E-06	<2.84E-06	n/a	n/a	n/a	n/a	2.84E-06	n/a	U
S09V001614		15046-84-1	Iodine-129	uCi/g	94.7	<2.26E-07	<2.18E-07	n/a	n/a	n/a	n/a	2.18E-07	n/a	U
S09V001616	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.6	<77.4	<76.0	n/a	n/a	n/a	n/a	76.0	n/a	U
S09V001616	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<98.8	n/a	n/a	n/a	n/a	98.8	n/a	U
S09V001616	O	121-14-2	2,4-Dinitrotoluene	ug/kg	87.3	<38.1	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S09V001616	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S09V001616	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S09V001616	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.4	n/a	n/a	n/a	n/a	56.4	n/a	U
S09V001616	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.7	n/a	n/a	n/a	n/a	52.7	n/a	U
S09V001616	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
S09V001616	O	83-32-9	Acenaphthene	ug/kg	72.2	<17.6	<17.3	n/a	n/a	n/a	n/a	17.3	n/a	U
S09V001616	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S09V001616	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.0	n/a	n/a	n/a	n/a	48.0	n/a	U
S09V001616	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

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N5
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001616	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<579	n/a	n/a	n/a	n/a	579	n/a	U
S09V001616	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.4	n/a	n/a	n/a	n/a	38.4	n/a	U
S09V001616	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S09V001616	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.5	<43.2	<42.4	n/a	n/a	n/a	n/a	42.4	n/a	U
S09V001616	O	95-57-8	2-Chlorophenol	ug/kg	68.6	<66.5	<65.3	n/a	n/a	n/a	n/a	65.3	n/a	U
S09V001616	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<79.9	n/a	n/a	n/a	n/a	79.9	n/a	U
S09V001616	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S09V001616	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<552	n/a	n/a	n/a	n/a	552	n/a	U
S09V001616	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.8	n/a	n/a	n/a	n/a	46.8	n/a	U
S09V001616	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.1	<58.1	<57.0	n/a	n/a	n/a	n/a	57.0	n/a	U
S09V001616	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
S09V001616	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.4	n/a	n/a	n/a	n/a	68.4	n/a	U
S09V001616	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V001616	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.1	n/a	n/a	n/a	n/a	50.1	n/a	U
S09V001616	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.4	n/a	n/a	n/a	n/a	61.4	n/a	U
S09V001616	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.4	n/a	n/a	n/a	n/a	63.4	n/a	U
S09V001616	O	129-00-0	Pyrene	ug/kg	93.9	<62.9	<61.7	n/a	n/a	n/a	n/a	61.7	n/a	U
S09V001616	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<63.8	n/a	n/a	n/a	n/a	63.8	n/a	U
S09V001616	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001616	O	128-37-0	BHT	ug/kg	n/a	<236	<231	n/a	n/a	n/a	n/a	231	n/a	U
S09V001616	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<179	n/a	n/a	n/a	n/a	179	n/a	U
S09V001616	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V001616	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<548	n/a	n/a	n/a	n/a	548	n/a	U
S09V001616	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<188	n/a	n/a	n/a	n/a	188	n/a	U
S09V001616	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<452	n/a	n/a	n/a	n/a	452	n/a	U
S09V001617	W	14762-75-5	Carbon-14	uCi/g	93.0	2.97E-06	3.51E-06	<4.74E-06	n/a	n/a	92.7	2.67E-06	67.34	B
S09V001617	W	16984-48-8	Fluoride	ug/g	103	<1.61E-03	0.688	0.603	0.646	13.3	95.2	0.0160	n/a	
S09V001617	W	GLYCOLAT	Glycolate	ug/g	101	<9.37E-03	<0.0933	<0.0936	n/a	n/a	96.2	0.0933	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

28 - Feb - 2011 14:42:36
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N5
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001617		W	71-50-1	Acetate	ug/g	98.8	<6.04E-03	0.108	0.781	0.444	152	92.4	0.0601	n/a	B
S09V001617		W	FORMATE	Formate	ug/g	102	<4.67E-03	0.474	0.459	0.466	3.19	96.6	0.0465	n/a	B
S09V001617		W	16887-00-6	Chloride	ug/g	100	<9.98E-03	0.445	0.403	0.424	9.97	96.3	0.0994	n/a	B
S09V001617		W	14797-65-0	Nitrite	ug/g	100	0.0449	2.34	0.357	1.35	147	95.7	0.191	n/a	CB
S09V001617		W	14808-79-8	Sulfate	ug/g	102	<0.0187	3.13	2.92	3.02	6.98	97.7	0.186	n/a	B
S09V001617		W	338-70-5	Oxalate	ug/g	101	<0.0231	0.391	0.452	0.422	14.5	94.3	0.230	n/a	B
S09V001617		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.577	<0.579	n/a	n/a	96.9	0.577	n/a	U
S09V001617		W	14797-55-8	Nitrate	ug/g	101	<0.0208	4.67	3.98	4.33	15.8	97.5	0.207	n/a	
S09V001617		W	14265-44-2	Phosphate	ug/g	101	<0.0167	2.01	1.98	2.00	1.54	77.3	0.166	n/a	B
S09V001618		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.46E+03	n/a	n/a	n/a	n/a	3.16	n/a	
S09V001618		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	64.3	n/a	n/a	n/a	n/a	0.316	n/a	
S09V001618		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.211	n/a	n/a	n/a	n/a	0.105	n/a	B
S09V001618		A	7440-70-2	Calcium	ug/g	91.3	0.586	9.56E+03	n/a	n/a	n/a	n/a	5.26	n/a	
S09V001618		A	7440-45-1	Cerium	ug/g	98.1	<0.0300	23.9	n/a	n/a	n/a	n/a	3.16	n/a	B
S09V001618		A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	8.74	n/a	n/a	n/a	n/a	1.05	n/a	B
S09V001618		A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	6.48	n/a	n/a	n/a	n/a	0.526	n/a	
S09V001618		A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	12.8	n/a	n/a	n/a	n/a	0.526	n/a	
S09V001618		A	7439-89-6	Iron	ug/g	93.8	0.0228	2.15E+04	n/a	n/a	n/a	n/a	0.526	n/a	
S09V001618		A	7440-09-7	Potassium	ug/g	102	<0.500	1.25E+03	n/a	n/a	n/a	n/a	52.6	n/a	
S09V001618		A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	10.7	n/a	n/a	n/a	n/a	0.316	n/a	
S09V001618		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	6.09	n/a	n/a	n/a	n/a	0.316	n/a	
S09V001618		A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	4.61E+03	n/a	n/a	n/a	n/a	5.26	n/a	
S09V001618		A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	316	n/a	n/a	n/a	n/a	0.316	n/a	
S09V001618		A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	<2.10	n/a	n/a	n/a	n/a	2.10	n/a	U
S09V001618		A	7440-23-5	Sodium	ug/g	98.1	<0.100	256	n/a	n/a	n/a	n/a	10.5	n/a	N
S09V001618		A	7440-02-0	Nickel	ug/g	92.8	<0.0200	11.9	n/a	n/a	n/a	n/a	2.10	n/a	
S09V001618		A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	1.02E+03	n/a	n/a	n/a	n/a	5.26	n/a	
S09V001618		A	7439-92-1	Lead	ug/g	95.2	<0.0500	5.88	n/a	n/a	n/a	n/a	5.26	n/a	B

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N5
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001618		A	7704-34-9	Sulfur	ug/g	94.7	<0.100	75.4	n/a	n/a	n/a	n/a	10.5	n/a	B
S09V001618		A	7440-21-3	Silicon	ug/g	85.0	<0.0300	144	n/a	n/a	n/a	n/a	3.16	n/a	N
S09V001618		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	28.4	n/a	n/a	n/a	n/a	0.316	n/a	
S09V001618		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	1.33E+03	n/a	n/a	n/a	n/a	0.526	n/a	
S09V001618		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	41.8	n/a	n/a	n/a	n/a	0.526	n/a	
S09V001618		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	12.1	n/a	n/a	n/a	n/a	0.210	n/a	
S09V001618		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	38.2	n/a	n/a	n/a	n/a	0.526	n/a	
S09V001618		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	5.72	n/a	n/a	n/a	n/a	0.526	n/a	CN
S09V001618		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
S09V001618		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	2.98	n/a	n/a	n/a	n/a	7.15E-04	n/a	
S09V001618		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.24E-04	n/a	n/a	n/a	n/a	4.21E-05	n/a	
S09V001618		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	3.17E-05	n/a	n/a	n/a	n/a	2.10E-05	n/a	
S09V001618		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	3.43E-03	n/a	n/a	n/a	n/a	4.63E-05	n/a	
S09V001618		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	2.01E-05	n/a	n/a	n/a	n/a	1.68E-05	n/a	
S09V001618		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
S09V001618		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.493	n/a	n/a	n/a	n/a	2.31E-03	n/a	
S09V001618		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0842	n/a	n/a	n/a	n/a	0.0842	n/a	U
S09V001618		A	7440-38-2	Arsenic	ug/g	112	<0.0420	3.42	n/a	n/a	n/a	n/a	0.442	n/a	
S09V001618		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.0902	n/a	n/a	n/a	n/a	0.0316	n/a	
S09V001618		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.642	n/a	n/a	n/a	n/a	0.642	n/a	U
S09V001618		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0886	n/a	n/a	n/a	n/a	6.31E-03	n/a	C
S09V001619		S	14798-03-9	Ammonium	ug/g	95.4	0.183	3.49	3.34	3.42	4.23	93.2	0.478	n/a	CB
S09V001620		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.08E-04	n/a	n/a	n/a	n/a	3.08E-04	n/a	U
S09V001620		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0214	n/a	n/a	n/a	n/a	0.0103	n/a	N
S09V001620		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.07E-04	n/a	n/a	n/a	n/a	1.88E-04	n/a	N
S09V001621		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.02E-07	<2.12E-07	n/a	n/a	n/a	n/a	2.12E-07	n/a	U
S09V001621		E	14596-10-2	Americium-241	uCi/g	100	<5.04E-07	<5.29E-07	n/a	n/a	n/a	n/a	5.29E-07	n/a	U
S09V001621		E	15510-73-3	Curium-242	uCi/g	n/a	<2.02E-07	<2.12E-07	n/a	n/a	n/a	n/a	2.12E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

28 - Feb - 2011 14:42:36
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N5
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001621	E	PU-239/240	Plutonium-239/240	uCi/g	96.4	<3.44E-07	<3.61E-07	n/a	n/a	n/a	n/a	3.61E-07	n/a	U
S09V001621	E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.44E-07	<3.61E-07	n/a	n/a	n/a	n/a	3.61E-07	n/a	U
S10V000001	WV	3812-32-6	Carbonate ion	MEQG	n/a	<4.80E-06	<4.80E-06	<4.80E-06	n/a	n/a	n/a	4.80E-06	n/a	
S10V000001	WV	71-52-3	Bicarbonate	MEQG	n/a	<4.80E-06	1.10E-03	1.10E-03	1.10E-03	0.0	n/a	4.80E-06	n/a	
S10V000002	E	SR-89/90	Strontium-89/90	uCi/g	101	<5.73E-07	3.00E-07	n/a	n/a	n/a	n/a	1.91E-07	100.451	
S10V000003	E	13981-37-8	Nickel-63	uCi/g	98.2	<5.29E-06	<5.05E-06	n/a	n/a	n/a	n/a	5.05E-06	n/a	U
S10V000003	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.53E-06	<2.80E-06	n/a	n/a	n/a	n/a	2.80E-06	n/a	U
S10V001143	A	7440-36-0	Antimony	ug/g	96.3	<4.40E-03	0.245	0.233	0.239	4.99	91.1	0.217	n/a	J
S10V001154	W	10028-17-8	Tritium	uCi/g	91.5	<2.48E-06	<2.27E-06	n/a	n/a	n/a	n/a	2.27E-06	n/a	U
S10V001199	WV	14133-76-7	Technetium-99	ug/g	111	<3.00E-06	<3.01E-06	n/a	n/a	n/a	n/a	3.01E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N7
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001610			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0811	n/a	n/a	n/a	n/a	0.0811	n/a	U
S09V001610			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.146	n/a	n/a	n/a	n/a	0.146	n/a	U
S09V001610			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.187	n/a	n/a	n/a	n/a	0.187	n/a	U
S09V001610			75-35-4	1,1-Dichloroethene	ug/kg	115	<0.423	<0.373	n/a	n/a	n/a	112	0.373	n/a	U
S09V001610			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0474	n/a	n/a	n/a	n/a	0.0474	n/a	U
S09V001610			71-36-3	1-Butanol	ug/kg	102	<10.3	<9.08	n/a	n/a	n/a	84.8	9.08	n/a	U
S09V001610			108-10-1	Hexone	ug/kg	126	<1.71	<1.51	n/a	n/a	n/a	122	1.51	n/a	U
S09V001610			67-64-1	Acetone	ug/kg	101	<2.20	<1.94	n/a	n/a	n/a	88.7	1.94	n/a	U
S09V001610			71-43-2	Benzene	ug/kg	103	<0.147	<0.130	n/a	n/a	n/a	99.1	0.130	n/a	U
S09V001610			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.142	n/a	n/a	n/a	n/a	0.142	n/a	U
S09V001610			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0824	n/a	n/a	n/a	n/a	0.0824	n/a	U
S09V001610			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S09V001610			108-90-7	Chlorobenzene	ug/kg	107	<0.0864	<0.0762	n/a	n/a	n/a	101	0.0762	n/a	U
S09V001610			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0945	n/a	n/a	n/a	n/a	0.0945	n/a	U
S09V001610			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V001610			78-93-3	2-Butanone	ug/kg	108	<1.96	<1.73	n/a	n/a	n/a	105	1.73	n/a	U
S09V001610			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0564	n/a	n/a	n/a	n/a	0.0564	n/a	U
S09V001610			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.0968	n/a	n/a	n/a	n/a	0.0968	n/a	U
S09V001610			108-88-3	Toluene	ug/kg	107	0.287	0.359	n/a	n/a	n/a	99.1	0.0707	n/a	BJ
S09V001610			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.239	n/a	n/a	n/a	n/a	0.239	n/a	U
S09V001610			79-01-6	Trichloroethene	ug/kg	98.7	<0.121	<0.107	n/a	n/a	n/a	93.2	0.107	n/a	U
S09V001610			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S09V001610			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.160	n/a	n/a	n/a	n/a	0.160	n/a	U
S09V001610			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.267	n/a	n/a	n/a	n/a	0.267	n/a	U
S09V001610			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.102	n/a	n/a	n/a	n/a	0.102	n/a	U
S09V001610			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.519	n/a	n/a	n/a	n/a	0.519	n/a	U
S09V001610			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.518	n/a	n/a	n/a	n/a	0.518	n/a	U
S09V001610			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.226	n/a	n/a	n/a	n/a	0.226	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N7
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001610			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0829	n/a	n/a	n/a	n/a	0.0829	n/a	U
S09V001610			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0811	n/a	n/a	n/a	n/a	0.0811	n/a	U
S09V001610			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.148	n/a	n/a	n/a	n/a	0.148	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N8
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001625		%WATERA	%WATER-APD	%	n/a	n/a	4.850	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001625		57-12-5	Cyanide	ug/g	97.0	<0.0370	<2.36	n/a	n/a	n/a	n/a	2.36	n/a	U
S09V001625		7439-97-6	Mercury	ug/g	102	<1.00E-04	9.44E-03	n/a	n/a	n/a	n/a	8.43E-03	n/a	B
S09V001625		PH	pH	unitless	n/a	n/a	8.95	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001625		12597-04-5	Sulfide	ug/g	89.6	<0.180	30.4	n/a	n/a	n/a	n/a	7.13	n/a	B
S09V001626		13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.24E-05	n/a	n/a	n/a	n/a	5.16E-06	28.40	
S09V001626		10198-40-0	Cobalt-60	uCi/g	98.6	<2.21E-07	<2.85E-07	n/a	n/a	n/a	n/a	2.85E-07	n/a	U
S09V001626		14234-35-6	Antimony-125	uCi/g	n/a	<5.73E-07	<7.21E-07	n/a	n/a	n/a	n/a	7.21E-07	n/a	U
S09V001626		10045-97-3	Cesium-137	uCi/g	102	<2.87E-07	2.07E-06	n/a	n/a	n/a	n/a	3.23E-07	13.51	
S09V001626		14683-23-9	Europium-152	uCi/g	n/a	<1.08E-06	<1.35E-06	n/a	n/a	n/a	n/a	1.35E-06	n/a	U
S09V001626		15585-10-1	Europium-154	uCi/g	n/a	<7.65E-07	<8.20E-07	n/a	n/a	n/a	n/a	8.20E-07	n/a	U
S09V001626		14391-16-3	Europium-155	uCi/g	n/a	<3.66E-07	<4.55E-07	n/a	n/a	n/a	n/a	4.55E-07	n/a	U
S09V001626		15092-94-1	Lead-212	uCi/g	n/a	n/a	8.52E-07	n/a	n/a	n/a	n/a	3.81E-07	18.19	
S09V001626		14274-82-9	Thorium-228	uCi/g	n/a	<6.41E-06	<8.29E-06	n/a	n/a	n/a	n/a	8.29E-06	n/a	U
S09V001626		15065-10-8	Thorium-234	uCi/g	n/a	<2.05E-06	<2.90E-06	n/a	n/a	n/a	n/a	2.90E-06	n/a	U
S09V001626		15046-84-1	Iodine-129	uCi/g	94.7	<2.26E-07	<2.22E-07	n/a	n/a	n/a	n/a	2.22E-07	n/a	U
S09V001628	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.6	<77.4	<76.1	n/a	n/a	n/a	n/a	76.1	n/a	U
S09V001628	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.0	n/a	n/a	n/a	n/a	99.0	n/a	U
S09V001628	O	121-14-2	2,4-Dinitrotoluene	ug/kg	87.3	<38.1	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S09V001628	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S09V001628	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S09V001628	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.5	n/a	n/a	n/a	n/a	56.5	n/a	U
S09V001628	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.8	n/a	n/a	n/a	n/a	52.8	n/a	U
S09V001628	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S09V001628	O	83-32-9	Acenaphthene	ug/kg	72.2	<17.6	<17.3	n/a	n/a	n/a	n/a	17.3	n/a	U
S09V001628	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S09V001628	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U
S09V001628	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.5	n/a	n/a	n/a	n/a	40.5	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N8
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001628		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<580	n/a	n/a	n/a	n/a	580	n/a	U
S09V001628		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.4	n/a	n/a	n/a	n/a	38.4	n/a	U
S09V001628		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S09V001628		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.5	<43.2	<42.5	n/a	n/a	n/a	n/a	42.5	n/a	U
S09V001628		O	95-57-8	2-Chlorophenol	ug/kg	68.6	<66.5	<65.4	n/a	n/a	n/a	n/a	65.4	n/a	U
S09V001628		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U
S09V001628		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S09V001628		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<553	n/a	n/a	n/a	n/a	553	n/a	U
S09V001628		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.9	n/a	n/a	n/a	n/a	46.9	n/a	U
S09V001628		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.1	<58.1	<57.1	n/a	n/a	n/a	n/a	57.1	n/a	U
S09V001628		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.8	n/a	n/a	n/a	n/a	34.8	n/a	U
S09V001628		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.5	n/a	n/a	n/a	n/a	68.5	n/a	U
S09V001628		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V001628		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.1	n/a	n/a	n/a	n/a	50.1	n/a	U
S09V001628		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.5	n/a	n/a	n/a	n/a	61.5	n/a	U
S09V001628		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.5	n/a	n/a	n/a	n/a	63.5	n/a	U
S09V001628		O	129-00-0	Pyrene	ug/kg	93.9	<62.9	<61.8	n/a	n/a	n/a	n/a	61.8	n/a	U
S09V001628		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S09V001628		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001628		O	128-37-0	BHT	ug/kg	n/a	<236	<232	n/a	n/a	n/a	n/a	232	n/a	U
S09V001628		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<179	n/a	n/a	n/a	n/a	179	n/a	U
S09V001628		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V001628		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<548	n/a	n/a	n/a	n/a	548	n/a	U
S09V001628		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<188	n/a	n/a	n/a	n/a	188	n/a	U
S09V001628		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<452	n/a	n/a	n/a	n/a	452	n/a	U
S09V001629		W	14762-75-5	Carbon-14	uCi/g	93.0	2.97E-06	<2.67E-06	n/a	n/a	n/a	n/a	2.67E-06	n/a	U
S09V001629		W	16984-48-8	Fluoride	ug/g	103	<1.61E-03	0.832	n/a	n/a	n/a	n/a	0.0158	n/a	
S09V001629		W	GLYCOLAT	Glycolate	ug/g	101	<9.37E-03	<0.0922	n/a	n/a	n/a	n/a	0.0922	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N8
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001629	W	71-50-1	Acetate	ug/g	98.8	<6.04E-03	<0.0594	n/a	n/a	n/a	n/a	0.0594	n/a	U
S09V001629	W	FORMATE	Formate	ug/g	102	<4.67E-03	0.273	n/a	n/a	n/a	n/a	0.0459	n/a	B
S09V001629	W	16887-00-6	Chloride	ug/g	100	<9.98E-03	0.376	n/a	n/a	n/a	n/a	0.0982	n/a	B
S09V001629	W	14797-65-0	Nitrite	ug/g	100	0.0449	0.490	n/a	n/a	n/a	n/a	0.189	n/a	CB
S09V001629	W	14808-79-8	Sulfate	ug/g	102	<0.0187	2.96	n/a	n/a	n/a	n/a	0.184	n/a	B
S09V001629	W	338-70-5	Oxalate	ug/g	101	<0.0231	0.309	n/a	n/a	n/a	n/a	0.227	n/a	B
S09V001629	W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.571	n/a	n/a	n/a	n/a	0.571	n/a	U
S09V001629	W	14797-55-8	Nitrate	ug/g	101	<0.0208	3.60	n/a	n/a	n/a	n/a	0.205	n/a	
S09V001629	W	14265-44-2	Phosphate	ug/g	101	<0.0167	2.46	n/a	n/a	n/a	n/a	0.164	n/a	B
S09V001630	A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	5.89E+03	n/a	n/a	n/a	n/a	3.18	n/a	
S09V001630	A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	63.2	n/a	n/a	n/a	n/a	0.318	n/a	
S09V001630	A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.193	n/a	n/a	n/a	n/a	0.106	n/a	B
S09V001630	A	7440-70-2	Calcium	ug/g	91.3	0.586	1.14E+04	n/a	n/a	n/a	n/a	5.29	n/a	
S09V001630	A	7440-45-1	Cerium	ug/g	98.1	<0.0300	23.8	n/a	n/a	n/a	n/a	3.18	n/a	B
S09V001630	A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	8.72	n/a	n/a	n/a	n/a	1.06	n/a	B
S09V001630	A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	6.46	n/a	n/a	n/a	n/a	0.529	n/a	
S09V001630	A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	12.0	n/a	n/a	n/a	n/a	0.529	n/a	
S09V001630	A	7439-89-6	Iron	ug/g	93.8	0.0228	1.98E+04	n/a	n/a	n/a	n/a	0.529	n/a	
S09V001630	A	7440-09-7	Potassium	ug/g	102	<0.500	1.06E+03	n/a	n/a	n/a	n/a	52.9	n/a	
S09V001630	A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	9.68	n/a	n/a	n/a	n/a	0.318	n/a	
S09V001630	A	7439-93-2	Lithium	ug/g	100	<3.00E-03	5.92	n/a	n/a	n/a	n/a	0.318	n/a	
S09V001630	A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	4.32E+03	n/a	n/a	n/a	n/a	5.29	n/a	
S09V001630	A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	302	n/a	n/a	n/a	n/a	0.318	n/a	
S09V001630	A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	<2.12	n/a	n/a	n/a	n/a	2.12	n/a	U
S09V001630	A	7440-23-5	Sodium	ug/g	98.1	<0.100	230	n/a	n/a	n/a	n/a	10.6	n/a	N
S09V001630	A	7440-02-0	Nickel	ug/g	92.8	<0.0200	8.23	n/a	n/a	n/a	n/a	2.12	n/a	
S09V001630	A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	951	n/a	n/a	n/a	n/a	5.29	n/a	
S09V001630	A	7439-92-1	Lead	ug/g	95.2	<0.0500	8.48	n/a	n/a	n/a	n/a	5.29	n/a	B

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N8
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001630		A	7704-34-9	Sulfur	ug/g	94.7	<0.100	63.5	n/a	n/a	n/a	n/a	10.6	n/a	B
S09V001630		A	7440-21-3	Silicon	ug/g	85.0	<0.0300	145	n/a	n/a	n/a	n/a	3.18	n/a	N
S09V001630		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	25.0	n/a	n/a	n/a	n/a	0.318	n/a	
S09V001630		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	1.20E+03	n/a	n/a	n/a	n/a	0.529	n/a	
S09V001630		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	37.0	n/a	n/a	n/a	n/a	0.529	n/a	
S09V001630		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	11.1	n/a	n/a	n/a	n/a	0.212	n/a	
S09V001630		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	34.7	n/a	n/a	n/a	n/a	0.529	n/a	
S09V001630		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	2.81	n/a	n/a	n/a	n/a	0.529	n/a	CBN
S09V001630		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	<2.96E-05	n/a	n/a	n/a	n/a	2.96E-05	n/a	U
S09V001630		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	2.51	n/a	n/a	n/a	n/a	7.20E-04	n/a	
S09V001630		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.02E-04	n/a	n/a	n/a	n/a	4.23E-05	n/a	
S09V001630		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	4.74E-05	n/a	n/a	n/a	n/a	2.12E-05	n/a	
S09V001630		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	2.68E-03	n/a	n/a	n/a	n/a	4.66E-05	n/a	
S09V001630		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	2.01E-05	n/a	n/a	n/a	n/a	1.69E-05	n/a	
S09V001630		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.24E-04	n/a	n/a	n/a	n/a	2.24E-04	n/a	U
S09V001630		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.406	n/a	n/a	n/a	n/a	2.33E-03	n/a	
S09V001630		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0847	n/a	n/a	n/a	n/a	0.0847	n/a	U
S09V001630		A	7440-38-2	Arsenic	ug/g	112	<0.0420	3.29	n/a	n/a	n/a	n/a	0.445	n/a	
S09V001630		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.0770	n/a	n/a	n/a	n/a	0.0318	n/a	
S09V001630		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.646	n/a	n/a	n/a	n/a	0.646	n/a	U
S09V001630		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0765	n/a	n/a	n/a	n/a	6.35E-03	n/a	C
S09V001631		S	14798-03-9	Ammonium	ug/g	95.4	0.183	3.49	n/a	n/a	n/a	n/a	0.470	n/a	CB
S09V001632		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.31E-04	n/a	n/a	n/a	n/a	3.31E-04	n/a	U
S09V001632		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0189	n/a	n/a	n/a	n/a	0.0110	n/a	N
S09V001632		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	UN
S09V001633		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.02E-07	<1.98E-07	n/a	n/a	n/a	n/a	1.98E-07	n/a	U
S09V001633		E	14596-10-2	Americium-241	uCi/g	100	<5.04E-07	<4.94E-07	n/a	n/a	n/a	n/a	4.94E-07	n/a	U
S09V001633		E	15510-73-3	Curium-242	uCi/g	n/a	<2.02E-07	<1.98E-07	n/a	n/a	n/a	n/a	1.98E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236N8
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001633		E	PU-239/240	Plutonium-239/240	uCi/g	96.4	<3.44E-07	<3.37E-07	n/a	n/a	n/a	n/a	3.37E-07	n/a	U
S09V001633		E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.44E-07	<3.37E-07	n/a	n/a	n/a	n/a	3.37E-07	n/a	U
S10V000004		WV	3812-32-6	Carbonate ion	MEQG	n/a	<4.80E-06	<4.80E-06	n/a	n/a	n/a	n/a	4.80E-06	n/a	
S10V000004		WV	71-52-3	Bicarbonate	MEQG	n/a	<4.80E-06	1.10E-03	n/a	n/a	n/a	n/a	4.80E-06	n/a	
S10V000005		E	SR-89/90	Strontium-89/90	uCi/g	101	<5.73E-07	<7.50E-07	n/a	n/a	n/a	n/a	7.50E-07	n/a	U
S10V000006		E	13981-37-8	Nickel-63	uCi/g	98.2	<5.29E-06	<4.61E-06	n/a	n/a	n/a	n/a	4.61E-06	n/a	U
S10V000006		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.53E-06	<1.38E-06	n/a	n/a	n/a	n/a	1.38E-06	n/a	U
S10V001144		A	7440-36-0	Antimony	ug/g	96.3	<4.40E-03	<0.219	n/a	n/a	n/a	n/a	0.219	n/a	U
S10V001155		W	10028-17-8	Tritium	uCi/g	91.5	<2.48E-06	<2.43E-06	n/a	n/a	n/a	n/a	2.43E-06	n/a	U
S10V001200		WV	14133-76-7	Technetium-99	ug/g	111	<3.00E-06	<3.00E-06	n/a	n/a	n/a	n/a	3.00E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P0
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001622			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0762	n/a	n/a	n/a	n/a	0.0762	n/a	U
S09V001622			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.137	n/a	n/a	n/a	n/a	0.137	n/a	U
S09V001622			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.175	n/a	n/a	n/a	n/a	0.175	n/a	U
S09V001622			75-35-4	1,1-Dichloroethene	ug/kg	115	<0.423	<0.350	n/a	n/a	n/a	n/a	0.350	n/a	U
S09V001622			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0445	n/a	n/a	n/a	n/a	0.0445	n/a	U
S09V001622			71-36-3	1-Butanol	ug/kg	102	<10.3	<8.52	n/a	n/a	n/a	n/a	8.52	n/a	U
S09V001622			108-10-1	Hexone	ug/kg	126	<1.71	<1.41	n/a	n/a	n/a	n/a	1.41	n/a	U
S09V001622			67-64-1	Acetone	ug/kg	101	<2.20	<1.82	n/a	n/a	n/a	n/a	1.82	n/a	U
S09V001622			71-43-2	Benzene	ug/kg	103	<0.147	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S09V001622			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V001622			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0773	n/a	n/a	n/a	n/a	0.0773	n/a	U
S09V001622			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.108	n/a	n/a	n/a	n/a	0.108	n/a	U
S09V001622			108-90-7	Chlorobenzene	ug/kg	107	<0.0864	<0.0715	n/a	n/a	n/a	n/a	0.0715	n/a	U
S09V001622			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0887	n/a	n/a	n/a	n/a	0.0887	n/a	U
S09V001622			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.168	n/a	n/a	n/a	n/a	0.168	n/a	U
S09V001622			78-93-3	2-Butanone	ug/kg	108	<1.96	<1.63	n/a	n/a	n/a	n/a	1.63	n/a	U
S09V001622			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0530	n/a	n/a	n/a	n/a	0.0530	n/a	U
S09V001622			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.0909	n/a	n/a	n/a	n/a	0.0909	n/a	U
S09V001622			108-88-3	Toluene	ug/kg	107	0.287	0.410	n/a	n/a	n/a	n/a	0.0664	n/a	BJ
S09V001622			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S09V001622			79-01-6	Trichloroethene	ug/kg	98.7	<0.121	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001622			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
S09V001622			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S09V001622			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.251	n/a	n/a	n/a	n/a	0.251	n/a	U
S09V001622			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.0962	n/a	n/a	n/a	n/a	0.0962	n/a	U
S09V001622			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.487	n/a	n/a	n/a	n/a	0.487	n/a	U
S09V001622			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.486	n/a	n/a	n/a	n/a	0.486	n/a	U
S09V001622			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.212	n/a	n/a	n/a	n/a	0.212	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P0
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001622			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V001622			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0762	n/a	n/a	n/a	n/a	0.0762	n/a	U
S09V001622			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P2
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001640			%WATERA	%WATER-APD	%	n/a	n/a	14.74	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001640			57-12-5	Cyanide	ug/g	91.3	<0.0110	<3.11	n/a	n/a	n/a	n/a	3.11	n/a	U
S09V001640			7439-97-6	Mercury	ug/g	99.8	<1.00E-04	<9.66E-03	n/a	n/a	n/a	n/a	9.66E-03	n/a	U
S09V001640			PH	pH	unitless	n/a	n/a	8.50	8.70	8.60	2.33	n/a	0.0100	n/a	
S09V001640			12597-04-5	Sulfide	ug/g	105	<0.180	42.2	n/a	n/a	n/a	n/a	6.97	n/a	
S09V001641			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.15E-05	n/a	n/a	n/a	n/a	5.47E-06	31.91	
S09V001641			10198-40-0	Cobalt-60	uCi/g	98.6	<2.21E-07	<2.84E-07	n/a	n/a	n/a	n/a	2.84E-07	n/a	U
S09V001641			14234-35-6	Antimony-125	uCi/g	n/a	<5.73E-07	<7.09E-07	n/a	n/a	n/a	n/a	7.09E-07	n/a	U
S09V001641			10045-97-3	Cesium-137	uCi/g	102	<2.87E-07	<3.63E-07	n/a	n/a	n/a	n/a	3.63E-07	n/a	U
S09V001641			14683-23-9	Europium-152	uCi/g	n/a	<1.08E-06	<1.47E-06	n/a	n/a	n/a	n/a	1.47E-06	n/a	U
S09V001641			15585-10-1	Europium-154	uCi/g	n/a	<7.65E-07	<8.76E-07	n/a	n/a	n/a	n/a	8.76E-07	n/a	U
S09V001641			14391-16-3	Europium-155	uCi/g	n/a	<3.66E-07	<4.68E-07	n/a	n/a	n/a	n/a	4.68E-07	n/a	U
S09V001641			15092-94-1	Lead-212	uCi/g	n/a	n/a	6.31E-07	n/a	n/a	n/a	n/a	5.45E-07	35.68	
S09V001641			14274-82-9	Thorium-228	uCi/g	n/a	<6.41E-06	<8.79E-06	n/a	n/a	n/a	n/a	8.79E-06	n/a	U
S09V001641			15065-10-8	Thorium-234	uCi/g	n/a	<2.05E-06	<3.04E-06	n/a	n/a	n/a	n/a	3.04E-06	n/a	U
S09V001641			15046-84-1	Iodine-129	uCi/g	94.7	<2.26E-07	<1.73E-07	n/a	n/a	n/a	n/a	1.73E-07	n/a	U
S09V001643		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	77.6	<774	<75.5	n/a	n/a	n/a	n/a	75.5	n/a	U
S09V001643		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<98.3	n/a	n/a	n/a	n/a	98.3	n/a	U
S09V001643		O	121-14-2	2,4-Dinitrotoluene	ug/kg	83.3	<381	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U
S09V001643		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<42.9	n/a	n/a	n/a	n/a	42.9	n/a	U
S09V001643		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U
S09V001643		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<56.1	n/a	n/a	n/a	n/a	56.1	n/a	U
S09V001643		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<52.4	n/a	n/a	n/a	n/a	52.4	n/a	U
S09V001643		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S09V001643		O	83-32-9	Acenaphthene	ug/kg	84.7	<176	<17.2	n/a	n/a	n/a	n/a	17.2	n/a	U
S09V001643		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<36.9	n/a	n/a	n/a	n/a	36.9	n/a	U
S09V001643		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S09V001643		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<412	<40.2	n/a	n/a	n/a	n/a	40.2	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P2
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001643		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<5.90E+03	<576	n/a	n/a	n/a	n/a	576	n/a	U
S09V001643		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<391	<38.2	n/a	n/a	n/a	n/a	38.2	n/a	U
S09V001643		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<500	48.8	n/a	n/a	n/a	n/a	48.8	n/a	J
S09V001643		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	78.2	<432	<42.2	n/a	n/a	n/a	n/a	42.2	n/a	U
S09V001643		O	95-57-8	2-Chlorophenol	ug/kg	77.8	<665	<64.9	n/a	n/a	n/a	n/a	64.9	n/a	U
S09V001643		O	218-01-9	Chrysene	ug/kg	n/a	<814	<79.4	n/a	n/a	n/a	n/a	79.4	n/a	U
S09V001643		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<511	<49.9	n/a	n/a	n/a	n/a	49.9	n/a	U
S09V001643		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<5.62E+03	<549	n/a	n/a	n/a	n/a	549	n/a	U
S09V001643		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<477	<46.5	n/a	n/a	n/a	n/a	46.5	n/a	U
S09V001643		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	65.2	<581	<56.7	n/a	n/a	n/a	n/a	56.7	n/a	U
S09V001643		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
S09V001643		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<697	<68.0	n/a	n/a	n/a	n/a	68.0	n/a	U
S09V001643		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
S09V001643		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<510	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S09V001643		O	91-20-3	Naphthalene	ug/kg	n/a	<626	<61.1	n/a	n/a	n/a	n/a	61.1	n/a	U
S09V001643		O	98-95-3	Nitrobenzene	ug/kg	n/a	<646	<63.0	n/a	n/a	n/a	n/a	63.0	n/a	U
S09V001643		O	129-00-0	Pyrene	ug/kg	88.0	<629	<61.4	n/a	n/a	n/a	n/a	61.4	n/a	U
S09V001643		O	110-86-1	Pyridine	ug/kg	n/a	<650	<63.4	n/a	n/a	n/a	n/a	63.4	n/a	U
S09V001643		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
S09V001643		O	128-37-0	BHT	ug/kg	n/a	<2.36E+03	<230	n/a	n/a	n/a	n/a	230	n/a	U
S09V001643		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
S09V001643		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<1.07E+03	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V001643		O	108-94-1	Cyclohexanone	ug/kg	n/a	<5.59E+03	<546	n/a	n/a	n/a	n/a	546	n/a	U
S09V001643		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<1.91E+03	<187	n/a	n/a	n/a	n/a	187	n/a	U
S09V001643		O	78-83-1	Isobutanol	ug/kg	n/a	<4.60E+03	<449	n/a	n/a	n/a	n/a	449	n/a	U
S09V001644		W	14762-75-5	Carbon-14	uCi/g	93.0	2.97E-06	<2.72E-06	n/a	n/a	n/a	n/a	2.72E-06	n/a	U
S09V001644		W	16984-48-8	Fluoride	ug/g	98.5	<1.61E-03	3.29	n/a	n/a	n/a	n/a	0.0176	n/a	
S09V001644		W	GLYCOLAT	Glycolate	ug/g	93.2	<9.37E-03	<0.102	n/a	n/a	n/a	n/a	0.102	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P2
Sample Depth: 5-7

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001644	W	71-50-1	Acetate	ug/g	92.1	<6.04E-03	0.319	n/a	n/a	n/a	n/a	0.0660	n/a	B
S09V001644	W	FORMATE	Formate	ug/g	95.9	8.90E-03	0.433	n/a	n/a	n/a	n/a	0.0511	n/a	CB
S09V001644	W	16887-00-6	Chloride	ug/g	102	<9.98E-03	0.790	n/a	n/a	n/a	n/a	0.109	n/a	
S09V001644	W	14797-65-0	Nitrite	ug/g	99.6	<0.0192	1.58	n/a	n/a	n/a	n/a	0.210	n/a	B
S09V001644	W	14808-79-8	Sulfate	ug/g	99.6	0.0336	11.7	n/a	n/a	n/a	n/a	0.204	n/a	
S09V001644	W	338-70-5	Oxalate	ug/g	99.0	<0.0231	0.659	n/a	n/a	n/a	n/a	0.253	n/a	B
S09V001644	W	24959-67-9	Bromide	ug/g	102	<0.0580	<0.634	n/a	n/a	n/a	n/a	0.634	n/a	U
S09V001644	W	14797-55-8	Nitrate	ug/g	98.8	0.0392	11.4	n/a	n/a	n/a	n/a	0.227	n/a	
S09V001644	W	14265-44-2	Phosphate	ug/g	97.0	<0.0167	<0.183	n/a	n/a	n/a	n/a	0.183	n/a	U
S09V001645	A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.50E+03	n/a	n/a	n/a	n/a	3.21	n/a	
S09V001645	A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	71.9	n/a	n/a	n/a	n/a	0.321	n/a	
S09V001645	A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.185	n/a	n/a	n/a	n/a	0.107	n/a	B
S09V001645	A	7440-70-2	Calcium	ug/g	91.3	0.586	1.96E+04	n/a	n/a	n/a	n/a	5.35	n/a	
S09V001645	A	7440-45-1	Cerium	ug/g	98.1	<0.0300	21.4	n/a	n/a	n/a	n/a	3.21	n/a	B
S09V001645	A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	6.04	n/a	n/a	n/a	n/a	1.07	n/a	B
S09V001645	A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	9.12	n/a	n/a	n/a	n/a	0.535	n/a	
S09V001645	A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	12.2	n/a	n/a	n/a	n/a	0.535	n/a	
S09V001645	A	7439-89-6	Iron	ug/g	93.8	0.0228	1.65E+04	n/a	n/a	n/a	n/a	0.535	n/a	
S09V001645	A	7440-09-7	Potassium	ug/g	102	<0.500	1.11E+03	n/a	n/a	n/a	n/a	53.5	n/a	
S09V001645	A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	8.75	n/a	n/a	n/a	n/a	0.321	n/a	
S09V001645	A	7439-93-2	Lithium	ug/g	100	<3.00E-03	7.91	n/a	n/a	n/a	n/a	0.321	n/a	
S09V001645	A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	5.42E+03	n/a	n/a	n/a	n/a	5.35	n/a	
S09V001645	A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	286	n/a	n/a	n/a	n/a	0.321	n/a	
S09V001645	A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	<2.14	n/a	n/a	n/a	n/a	2.14	n/a	U
S09V001645	A	7440-23-5	Sodium	ug/g	98.1	<0.100	284	n/a	n/a	n/a	n/a	10.7	n/a	N
S09V001645	A	7440-02-0	Nickel	ug/g	92.8	<0.0200	11.7	n/a	n/a	n/a	n/a	2.14	n/a	
S09V001645	A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	786	n/a	n/a	n/a	n/a	5.35	n/a	
S09V001645	A	7439-92-1	Lead	ug/g	95.2	<0.0500	6.03	n/a	n/a	n/a	n/a	5.35	n/a	B

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P2
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001645		A	7704-34-9	Sulfur	ug/g	94.7	<0.100	96.1	n/a	n/a	n/a	n/a	10.7	n/a	B
S09V001645		A	7440-21-3	Silicon	ug/g	85.0	<0.0300	123	n/a	n/a	n/a	n/a	3.21	n/a	N
S09V001645		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	49.7	n/a	n/a	n/a	n/a	0.321	n/a	
S09V001645		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	868	n/a	n/a	n/a	n/a	0.535	n/a	
S09V001645		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	31.6	n/a	n/a	n/a	n/a	0.535	n/a	
S09V001645		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	7.77	n/a	n/a	n/a	n/a	0.214	n/a	
S09V001645		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	33.4	n/a	n/a	n/a	n/a	0.535	n/a	
S09V001645		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	7.00	n/a	n/a	n/a	n/a	0.535	n/a	CN
S09V001645		A	14269-63-7	Thorium-230	ug/g	n/a	<2.80E-06	6.41E-05	n/a	n/a	n/a	n/a	3.00E-05	n/a	
S09V001645		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	3.01	n/a	n/a	n/a	n/a	7.28E-04	n/a	
S09V001645		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.40E-04	n/a	n/a	n/a	n/a	4.28E-05	n/a	
S09V001645		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	6.79E-05	n/a	n/a	n/a	n/a	2.14E-05	n/a	
S09V001645		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	6.90E-03	n/a	n/a	n/a	n/a	4.71E-05	n/a	
S09V001645		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	2.00E-05	n/a	n/a	n/a	n/a	1.71E-05	n/a	
S09V001645		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.27E-04	n/a	n/a	n/a	n/a	2.27E-04	n/a	U
S09V001645		A	U-238	Uranium-238	ug/g	105	<2.20E-04	1.01	n/a	n/a	n/a	n/a	2.35E-03	n/a	
S09V001645		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	<0.0856	n/a	n/a	n/a	n/a	0.0856	n/a	U
S09V001645		A	7440-38-2	Arsenic	ug/g	112	<0.0420	4.30	n/a	n/a	n/a	n/a	0.449	n/a	
S09V001645		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.116	n/a	n/a	n/a	n/a	0.0321	n/a	
S09V001645		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.653	n/a	n/a	n/a	n/a	0.653	n/a	U
S09V001645		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0846	n/a	n/a	n/a	n/a	6.42E-03	n/a	C
S09V001646		S	14798-03-9	Ammonium	ug/g	98.0	<0.120	4.52	4.98	4.75	9.60	93.8	0.506	n/a	B
S09V001647		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.08E-04	n/a	n/a	n/a	n/a	3.08E-04	n/a	U
S09V001647		A	SN-117	Tin-117	ug/g	109	<1.10E-03	0.0155	n/a	n/a	n/a	n/a	0.0105	n/a	N
S09V001647		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	<1.91E-04	n/a	n/a	n/a	n/a	1.91E-04	n/a	UN
S09V001648		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.02E-07	<1.92E-07	n/a	n/a	n/a	n/a	1.92E-07	n/a	U
S09V001648		E	14596-10-2	Americium-241	uCi/g	100	<5.04E-07	<4.79E-07	n/a	n/a	n/a	n/a	4.79E-07	n/a	U
S09V001648		E	15510-73-3	Curium-242	uCi/g	n/a	<2.02E-07	<1.92E-07	n/a	n/a	n/a	n/a	1.92E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P2
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001648		E	PU-239/240	Plutonium-239/240	uCi/g	96.4	<3.44E-07	<2.43E-07	n/a	n/a	n/a	n/a	2.43E-07	n/a	U
S09V001648		E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.44E-07	<2.43E-07	n/a	n/a	n/a	n/a	2.43E-07	n/a	U
S10V000007		WV	3812-32-6	Carbonate ion	MEQG	n/a	<4.80E-06	1.00E-04	n/a	n/a	n/a	n/a	5.90E-06	n/a	
S10V000007		WV	71-52-3	Bicarbonate	MEQG	n/a	<4.80E-06	1.70E-03	n/a	n/a	n/a	n/a	5.90E-06	n/a	
S10V000008		E	SR-89/90	Strontium-89/90	uCi/g	101	<5.73E-07	<7.53E-07	n/a	n/a	n/a	n/a	7.53E-07	n/a	U
S10V000009		E	13981-37-8	Nickel-63	uCi/g	98.2	<5.29E-06	<5.05E-06	n/a	n/a	n/a	n/a	5.05E-06	n/a	U
S10V000009		E	15758-45-9	Selenium-79	uCi/g	n/a	1.72E-06	2.42E-06	n/a	n/a	n/a	n/a	1.55E-06	91.319	B
S10V001145		A	7440-36-0	Antimony	ug/g	96.3	<4.40E-03	0.262	n/a	n/a	n/a	n/a	0.211	n/a	J
S10V001156		W	10028-17-8	Tritium	uCi/g	91.5	<2.48E-06	<2.41E-06	n/a	n/a	n/a	n/a	2.41E-06	n/a	U
S10V001201		WV	14133-76-7	Technetium-99	ug/g	111	<3.00E-06	<3.70E-06	<3.69E-06	n/a	n/a	104	3.70E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P4
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001634			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
S09V001634			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
S09V001634			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
S09V001634			75-35-4	1,1-Dichloroethene	ug/kg	117	<0.423	<0.433	n/a	n/a	n/a	110	0.433	n/a	U
S09V001634			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
S09V001634			71-36-3	1-Butanol	ug/kg	110	<10.3	<10.5	n/a	n/a	n/a	92.0	10.5	n/a	U
S09V001634			108-10-1	Hexone	ug/kg	120	2.44	<1.75	n/a	n/a	n/a	106	1.75	n/a	U
S09V001634			67-64-1	Acetone	ug/kg	127	<2.20	<2.25	n/a	n/a	n/a	123	2.25	n/a	U
S09V001634			71-43-2	Benzene	ug/kg	110	<0.147	<0.151	n/a	n/a	n/a	100	0.151	n/a	U
S09V001634			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V001634			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
S09V001634			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
S09V001634			108-90-7	Chlorobenzene	ug/kg	110	<0.0864	<0.0883	n/a	n/a	n/a	98.6	0.0883	n/a	U
S09V001634			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
S09V001634			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	0.463	n/a	n/a	n/a	n/a	0.208	n/a	J
S09V001634			78-93-3	2-Butanone	ug/kg	118	<1.96	<2.01	n/a	n/a	n/a	120	2.01	n/a	U
S09V001634			75-09-2	Methylenechloride	ug/kg	n/a	0.604	0.855	n/a	n/a	n/a	n/a	0.0654	n/a	B
S09V001634			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
S09V001634			108-88-3	Toluene	ug/kg	111	<0.0802	0.978	n/a	n/a	n/a	99.1	0.0820	n/a	
S09V001634			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.277	n/a	n/a	n/a	n/a	0.277	n/a	U
S09V001634			79-01-6	Trichloroethene	ug/kg	109	<0.121	<0.124	n/a	n/a	n/a	98.1	0.124	n/a	U
S09V001634			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
S09V001634			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
S09V001634			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
S09V001634			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
S09V001634			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
S09V001634			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
S09V001634			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P4
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001634			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
S09V001634			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	0.128	n/a	n/a	n/a	n/a	0.0941	n/a	J
S09V001634			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	0.334	n/a	n/a	n/a	n/a	0.171	n/a	J

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B23KT4
Sample Depth: 10-14

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001655			%WATERA	%WATER-APD	%	n/a	n/a	6.610	6.860	6.735	3.712	n/a	0.01000	n/a	
S09V001655			57-12-5	Cyanide	ug/g	91.3	<0.0110	<3.56	<3.83	n/a	n/a	81.3	3.56	n/a	U
S09V001655			7439-97-6	Mercury	ug/g	99.8	<1.00E-04	<9.05E-03	n/a	n/a	n/a	92.6	9.05E-03	n/a	U
S09V001655			PH	pH	unitless	n/a	n/a	9.10	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001655			12597-04-5	Sulfide	ug/g	105	<0.180	37.2	44.4	40.8	17.8	104	6.62	n/a	
S09V001656			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.01E-05	n/a	n/a	n/a	n/a	5.83E-06	37.93	
S09V001656			10198-40-0	Cobalt-60	uCi/g	98.6	<2.21E-07	<2.90E-07	n/a	n/a	n/a	n/a	2.90E-07	n/a	U
S09V001656			14234-35-6	Antimony-125	uCi/g	n/a	<5.73E-07	<7.32E-07	n/a	n/a	n/a	n/a	7.32E-07	n/a	U
S09V001656			10045-97-3	Cesium-137	uCi/g	102	<2.87E-07	<3.88E-07	n/a	n/a	n/a	n/a	3.88E-07	n/a	U
S09V001656			14683-23-9	Europium-152	uCi/g	n/a	<1.08E-06	<1.46E-06	n/a	n/a	n/a	n/a	1.46E-06	n/a	U
S09V001656			15585-10-1	Europium-154	uCi/g	n/a	<7.65E-07	<9.34E-07	n/a	n/a	n/a	n/a	9.34E-07	n/a	U
S09V001656			14391-16-3	Europium-155	uCi/g	n/a	<3.66E-07	<4.82E-07	n/a	n/a	n/a	n/a	4.82E-07	n/a	U
S09V001656			15092-94-1	Lead-212	uCi/g	n/a	n/a	9.02E-07	n/a	n/a	n/a	n/a	4.51E-07	19.54	
S09V001656			14274-82-9	Thorium-228	uCi/g	n/a	<6.41E-06	<8.94E-06	n/a	n/a	n/a	n/a	8.94E-06	n/a	U
S09V001656			15065-10-8	Thorium-234	uCi/g	n/a	<2.05E-06	<2.99E-06	n/a	n/a	n/a	n/a	2.99E-06	n/a	U
S09V001656			15046-84-1	Iodine-129	uCi/g	94.7	<2.26E-07	<2.09E-07	n/a	n/a	n/a	n/a	2.09E-07	n/a	U
S09V001658		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	77.6	<774	<74.9	n/a	n/a	n/a	74.9	74.9	n/a	U
S09V001658		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<97.5	n/a	n/a	n/a	n/a	97.5	n/a	U
S09V001658		O	121-14-2	2,4-Dinitrotoluene	ug/kg	83.3	<381	<36.9	n/a	n/a	n/a	87.9	36.9	n/a	U
S09V001658		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<42.6	n/a	n/a	n/a	n/a	42.6	n/a	U
S09V001658		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S09V001658		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<55.6	n/a	n/a	n/a	n/a	55.6	n/a	U
S09V001658		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S09V001658		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S09V001658		O	83-32-9	Acenaphthene	ug/kg	84.7	<176	<17.0	n/a	n/a	n/a	85.2	17.0	n/a	U
S09V001658		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S09V001658		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<47.3	n/a	n/a	n/a	n/a	47.3	n/a	U
S09V001658		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<412	<39.9	n/a	n/a	n/a	n/a	39.9	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B23KT4
Sample Depth: 10-14

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001658		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<5.90E+03	667	n/a	n/a	n/a	n/a	571	n/a	J
S09V001658		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<391	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S09V001658		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<500	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S09V001658		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	78.2	<432	<41.8	n/a	n/a	n/a	79.8	41.8	n/a	U
S09V001658		O	95-57-8	2-Chlorophenol	ug/kg	77.8	<665	<64.4	n/a	n/a	n/a	73.3	64.4	n/a	U
S09V001658		O	218-01-9	Chrysene	ug/kg	n/a	<814	<78.8	n/a	n/a	n/a	n/a	78.8	n/a	U
S09V001658		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<511	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S09V001658		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<5.62E+03	<544	n/a	n/a	n/a	n/a	544	n/a	U
S09V001658		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<477	<46.2	n/a	n/a	n/a	n/a	46.2	n/a	U
S09V001658		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	65.2	<581	<56.2	n/a	n/a	n/a	63.5	56.2	n/a	U
S09V001658		O	206-44-0	Fluoranthene	ug/kg	n/a	<354	<34.3	n/a	n/a	n/a	n/a	34.3	n/a	U
S09V001658		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<697	<67.5	n/a	n/a	n/a	n/a	67.5	n/a	U
S09V001658		O	67-72-1	Hexachloroethane	ug/kg	n/a	<1.12E+03	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V001658		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<510	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S09V001658		O	91-20-3	Naphthalene	ug/kg	n/a	<626	<60.6	n/a	n/a	n/a	n/a	60.6	n/a	U
S09V001658		O	98-95-3	Nitrobenzene	ug/kg	n/a	<646	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S09V001658		O	129-00-0	Pyrene	ug/kg	88.0	<629	<60.9	n/a	n/a	n/a	92.7	60.9	n/a	U
S09V001658		O	110-86-1	Pyridine	ug/kg	n/a	<650	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	U
S09V001658		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<1.08E+03	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V001658		O	128-37-0	BHT	ug/kg	n/a	<2.36E+03	<228	n/a	n/a	n/a	n/a	228	n/a	U
S09V001658		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<1.82E+03	<177	n/a	n/a	n/a	n/a	177	n/a	U
S09V001658		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<1.07E+03	<103	n/a	n/a	n/a	n/a	103	n/a	U
S09V001658		O	108-94-1	Cyclohexanone	ug/kg	n/a	<5.59E+03	<541	n/a	n/a	n/a	n/a	541	n/a	U
S09V001658		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<1.91E+03	<185	n/a	n/a	n/a	n/a	185	n/a	U
S09V001658		O	78-83-1	Isobutanol	ug/kg	n/a	<4.60E+03	<445	n/a	n/a	n/a	n/a	445	n/a	U
S09V001659		W	14762-75-5	Carbon-14	uCi/g	94.6	<3.01E-06	1.25E-05	3.69E-06	8.10E-06	109	94.4	3.23E-06	49.316	
S09V001659		W	16984-48-8	Fluoride	ug/g	93.1	<1.61E-03	1.74	1.86	1.80	6.61	101	0.0211	n/a	
S09V001659		W	GLYCOLAT	Glycolate	ug/g	93.4	<9.37E-03	<0.123	<0.124	n/a	n/a	99.4	0.123	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B23KT4
Sample Depth: 10-14

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001659		W	71-50-1	Acetate	ug/g	90.3	<6.04E-03	0.943	0.699	0.821	29.7	97.1	0.0791	n/a	B
S09V001659		W	FORMATE	Formate	ug/g	94.1	<4.67E-03	0.399	0.446	0.423	11.3	101	0.0612	n/a	B
S09V001659		W	16887-00-6	Chloride	ug/g	94.3	<9.98E-03	0.491	0.560	0.525	13.0	101	0.131	n/a	
S09V001659		W	14797-65-0	Nitrite	ug/g	105	<0.0192	3.30	2.57	2.94	24.9	112	0.251	n/a	B
S09V001659		W	14808-79-8	Sulfate	ug/g	96.0	<0.0187	25.1	26.0	25.6	3.49	102	0.245	n/a	
S09V001659		W	338-70-5	Oxalate	ug/g	94.2	<0.0231	0.516	0.741	0.629	35.8	99.5	0.303	n/a	B
S09V001659		W	24959-67-9	Bromide	ug/g	96.4	<0.0580	<0.760	<0.768	n/a	n/a	103	0.760	n/a	U
S09V001659		W	14797-55-8	Nitrate	ug/g	93.5	<0.0208	4.47	4.73	4.60	5.61	99.6	0.272	n/a	
S09V001659		W	14265-44-2	Phosphate	ug/g	93.6	<0.0167	2.40	2.54	2.47	5.75	99.3	0.219	n/a	B
S09V001660		A	7429-90-5	Aluminum	ug/g	90.6	0.0355	5.86E+03	7.22E+03	6.54E+03	20.8	597	25.9	n/a	
S09V001660		A	7440-39-3	Barium	ug/g	90.5	<3.00E-03	78.0	96.0	87.0	20.7	100	2.59	n/a	
S09V001660		A	7440-41-7	Beryllium	ug/g	91.1	<1.00E-03	<0.864	<0.844	n/a	n/a	93.4	0.864	n/a	U
S09V001660		A	7440-70-2	Calcium	ug/g	85.8	0.0779	7.96E+03	9.09E+03	8.52E+03	13.3	426	43.2	n/a	
S09V001660		A	7440-45-1	Cerium	ug/g	95.8	0.0361	48.0	48.7	48.3	1.45	95.5	25.9	n/a	CB
S09V001660		A	7440-50-8	Copper	ug/g	91.4	<5.00E-03	15.6	15.0	15.3	4.26	96.3	4.32	n/a	B
S09V001660		A	7439-89-6	Iron	ug/g	87.3	<5.00E-03	2.59E+04	3.12E+04	2.86E+04	18.6	746	4.32	n/a	
S09V001660		A	7440-09-7	Potassium	ug/g	103	<0.500	1.06E+03	1.46E+03	1.26E+03	31.5	187	432	n/a	BN
S09V001660		A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	9.42	7.97	8.70	16.7	96.2	2.59	n/a	B
S09V001660		A	7439-93-2	Lithium	ug/g	101	<3.00E-03	4.37	6.19	5.28	34.5	105	2.59	n/a	B
S09V001660		A	7439-95-4	Magnesium	ug/g	87.4	<0.0500	3.70E+03	4.60E+03	4.15E+03	21.7	282	43.2	n/a	
S09V001660		A	7439-96-5	Manganese	ug/g	86.2	<3.00E-03	358	410	384	13.3	102	2.59	n/a	
S09V001660		A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<17.3	<16.9	n/a	n/a	96.1	17.3	n/a	U
S09V001660		A	7440-23-5	Sodium	ug/g	98.1	<0.100	555	737	646	28.2	205	86.4	n/a	BN
S09V001660		A	7440-00-8	Neodymium	ug/g	94.5	0.0176	23.2	28.9	26.0	21.8	97.7	8.64	n/a	CB
S09V001660		A	7723-14-0	Phosphorus	ug/g	86.4	<0.0500	911	976	943	6.90	114	43.2	n/a	
S09V001660		A	7440-21-3	Silicon	ug/g	82.6	<0.0300	1.17E+03	1.25E+03	1.21E+03	6.70	331	25.9	n/a	
S09V001660		A	7440-24-6	Strontium	ug/g	90.9	<3.00E-03	26.5	39.4	32.9	39.2	97.8	2.59	n/a	M
S09V001660		A	7440-32-6	Titanium	ug/g	90.2	<5.00E-03	2.64E+03	2.99E+03	2.82E+03	12.5	154	4.32	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B23KT4
Sample Depth: 10-14

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001660		A	7440-62-2	Vanadium	ug/g	90.0	<5.00E-03	78.2	89.8	84.0	13.8	99.0	4.32	n/a	
S09V001660		A	7440-65-5	Yttrium	ug/g	92.9	<2.00E-03	11.1	12.2	11.6	9.25	97.4	1.73	n/a	B
S09V001660		A	7440-66-6	Zinc	ug/g	87.3	<5.00E-03	37.0	41.7	39.4	12.0	95.0	4.32	n/a	B
S09V001660		A	7440-67-7	Zirconium	ug/g	88.5	<5.00E-03	22.8	29.4	26.1	25.5	95.5	4.32	n/a	B
S09V001660		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.42E-05	2.94E-05	n/a	n/a	n/a	2.42E-05	n/a	U
S09V001660		A	TH-232	Thorium-232	ug/g	108	<3.40E-06	2.40	2.65	2.52	10.0	107	5.87E-04	n/a	
S09V001660		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	8.03E-05	6.53E-05	7.28E-05	20.6	n/a	3.45E-05	n/a	
S09V001660		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.73E-05	<1.69E-05	n/a	n/a	n/a	1.73E-05	n/a	U
S09V001660		A	15117-96-1	Uranium-235	ug/g	102	<2.20E-07	3.10E-03	3.40E-03	3.25E-03	9.32	97.6	3.80E-05	n/a	
S09V001660		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.38E-05	<1.35E-05	n/a	n/a	n/a	1.38E-05	n/a	U
S09V001660		A	13994-20-2	Neptunium-237	ug/g	116	<1.06E-06	<1.83E-04	<1.79E-04	n/a	n/a	113	1.83E-04	n/a	U
S09V001660		A	U-238	Uranium-238	ug/g	110	<1.10E-05	0.449	0.513	0.481	13.2	106	1.90E-03	n/a	
S09V001660		A	7440-22-4	Silver	ug/g	101	<4.00E-04	0.0818	0.0978	0.0898	17.9	112	0.0691	n/a	B
S09V001660		A	7440-38-2	Arsenic	ug/g	104	<2.10E-03	2.46	2.70	2.58	9.53	108	0.363	n/a	B
S09V001660		A	7440-48-4	Cobalt	ug/g	100	<1.00E-03	8.42	8.69	8.56	3.19	109	0.173	n/a	
S09V001660		A	7440-43-9	Cadmium	ug/g	100	<1.50E-04	0.0745	0.0793	0.0769	6.24	111	0.0259	n/a	B
S09V001660		A	7440-47-3	Chromium	ug/g	99.1	<7.00E-03	6.39	14.2	10.3	75.8	101	1.21	n/a	B
S09V001660		A	7439-92-1	Lead	ug/g	105	7.14E-03	4.38	4.34	4.36	0.877	110	1.07	n/a	B
S09V001660		A	7782-49-2	Selenium	ug/g	107	<3.05E-03	<0.527	<0.515	n/a	n/a	116	0.527	n/a	U
S09V001660		A	7440-28-0	Thallium	ug/g	104	4.12E-04	0.104	0.122	0.113	15.9	100	0.0259	n/a	CB
S09V001660		A	7440-02-0	Nickel	ug/g	101	<2.40E-03	7.51	14.1	10.8	61.1	108	0.415	n/a	M
S09V001661		S	14798-03-9	Ammonium	ug/g	98.0	<0.120	0.942	n/a	n/a	n/a	n/a	0.493	n/a	B
S09V001662		A	14133-76-7	Technetium-99	ug/g	112	<6.00E-06	<1.13E-03	<1.13E-03	n/a	n/a	110	1.13E-03	n/a	U
S09V001662		A	SN-117	Tin-117	ug/g	104	<2.20E-04	<0.0416	<0.0416	n/a	n/a	90.1	0.0416	n/a	U
S09V001662		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.56E-04	<7.56E-04	n/a	n/a	n/a	7.56E-04	n/a	U
S09V001663		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.02E-07	<1.92E-07	n/a	n/a	n/a	n/a	1.92E-07	n/a	U
S09V001663		E	14596-10-2	Americium-241	uCi/g	100	<5.04E-07	<4.81E-07	n/a	n/a	n/a	n/a	4.81E-07	n/a	U
S09V001663		E	15510-73-3	Curium-242	uCi/g	n/a	<2.02E-07	<1.92E-07	n/a	n/a	n/a	n/a	1.92E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B23KT4
Sample Depth: 10-14

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001663		E	PU-239/240	Plutonium-239/240	uCi/g	96.4	<3.44E-07	<3.19E-07	n/a	n/a	n/a	n/a	3.19E-07	n/a	U
S09V001663		E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.44E-07	<3.19E-07	n/a	n/a	n/a	n/a	3.19E-07	n/a	U
S10V000010		WV	3812-32-6	Carbonate ion	MEQG	n/a	<4.80E-06	2.00E-04	n/a	n/a	n/a	n/a	5.00E-06	n/a	
S10V000010		WV	71-52-3	Bicarbonate	MEQG	n/a	<4.80E-06	2.10E-03	n/a	n/a	n/a	n/a	5.00E-06	n/a	
S10V000011		E	SR-89/90	Strontium-89/90	uCi/g	101	<5.73E-07	<2.26E-07	n/a	n/a	n/a	n/a	2.26E-07	n/a	U
S10V000012		E	13981-37-8	Nickel-63	uCi/g	98.2	<5.29E-06	<5.07E-06	n/a	n/a	n/a	n/a	5.07E-06	n/a	U
S10V000012		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.53E-06	<1.73E-06	n/a	n/a	n/a	n/a	1.73E-06	n/a	U
S10V001146		A	7440-36-0	Antimony	ug/g	109	<4.40E-03	<0.200	<0.204	n/a	n/a	103	0.200	n/a	U
S10V001157		W	10028-17-8	Tritium	uCi/g	91.5	<2.48E-06	<3.32E-06	n/a	n/a	n/a	n/a	3.32E-06	n/a	U
S10V001202		WV	14133-76-7	Technetium-99	ug/g	111	<3.00E-06	<3.11E-06	n/a	n/a	n/a	n/a	3.11E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P8A
Sample Depth: 12-14

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001654			BULKDENSI	Bulk Density	g/mL	n/a	n/a	1.99	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P8B
Sample Depth: 12-14

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001664			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.13	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P8C
Sample Depth: 12-14

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001665			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.17	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P7
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001649			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0906	n/a	n/a	n/a	n/a	0.0906	n/a	U
S09V001649			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.163	n/a	n/a	n/a	n/a	0.163	n/a	U
S09V001649			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.208	n/a	n/a	n/a	n/a	0.208	n/a	U
S09V001649			75-35-4	1,1-Dichloroethene	ug/kg	117	<0.423	<0.417	n/a	n/a	n/a	n/a	0.417	n/a	U
S09V001649			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0530	n/a	n/a	n/a	n/a	0.0530	n/a	U
S09V001649			71-36-3	1-Butanol	ug/kg	110	<10.3	<10.1	n/a	n/a	n/a	n/a	10.1	n/a	U
S09V001649			108-10-1	Hexone	ug/kg	120	2.44	<1.68	n/a	n/a	n/a	n/a	1.68	n/a	U
S09V001649			67-64-1	Acetone	ug/kg	127	<2.20	<2.16	n/a	n/a	n/a	n/a	2.16	n/a	U
S09V001649			71-43-2	Benzene	ug/kg	110	<0.147	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S09V001649			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.158	n/a	n/a	n/a	n/a	0.158	n/a	U
S09V001649			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0919	n/a	n/a	n/a	n/a	0.0919	n/a	U
S09V001649			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.129	n/a	n/a	n/a	n/a	0.129	n/a	U
S09V001649			108-90-7	Chlorobenzene	ug/kg	110	<0.0864	<0.0850	n/a	n/a	n/a	n/a	0.0850	n/a	U
S09V001649			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.106	n/a	n/a	n/a	n/a	0.106	n/a	U
S09V001649			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V001649			78-93-3	2-Butanone	ug/kg	118	<1.96	2.50	n/a	n/a	n/a	n/a	1.93	n/a	J
S09V001649			75-09-2	Methylenechloride	ug/kg	n/a	0.604	0.742	n/a	n/a	n/a	n/a	0.0630	n/a	B
S09V001649			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.108	n/a	n/a	n/a	n/a	0.108	n/a	U
S09V001649			108-88-3	Toluene	ug/kg	111	<0.0802	0.246	n/a	n/a	n/a	n/a	0.0789	n/a	J
S09V001649			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.267	n/a	n/a	n/a	n/a	0.267	n/a	U
S09V001649			79-01-6	Trichloroethene	ug/kg	109	<0.121	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U
S09V001649			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.171	n/a	n/a	n/a	n/a	0.171	n/a	U
S09V001649			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V001649			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.298	n/a	n/a	n/a	n/a	0.298	n/a	U
S09V001649			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.114	n/a	n/a	n/a	n/a	0.114	n/a	U
S09V001649			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.579	n/a	n/a	n/a	n/a	0.579	n/a	U
S09V001649			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.578	n/a	n/a	n/a	n/a	0.578	n/a	U
S09V001649			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.252	n/a	n/a	n/a	n/a	0.252	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B236P7
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001649			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0925	n/a	n/a	n/a	n/a	0.0925	n/a	U
S09V001649			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0906	n/a	n/a	n/a	n/a	0.0906	n/a	U
S09V001649			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H1
Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001685		%WATERA	%WATER-APD	%	n/a	n/a	4.740	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001685		57-12-5	Cyanide	ug/g	91.3	<0.0110	<3.62	n/a	n/a	n/a	n/a	3.62	n/a	U
S09V001685		7439-97-6	Mercury	ug/g	99.8	<1.00E-04	<8.96E-03	n/a	n/a	n/a	n/a	8.96E-03	n/a	U
S09V001685		PH	pH	unitless	n/a	n/a	8.90	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001685		12597-04-5	Sulfide	ug/g	105	<0.180	29.2	n/a	n/a	n/a	n/a	7.25	n/a	B
S09V001686		13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.31E-05	n/a	n/a	n/a	n/a	6.37E-06	32.62	
S09V001686		10198-40-0	Cobalt-60	uCi/g	98.6	<2.21E-07	<3.55E-07	n/a	n/a	n/a	n/a	3.55E-07	n/a	U
S09V001686		14234-35-6	Antimony-125	uCi/g	n/a	<5.73E-07	<8.12E-07	n/a	n/a	n/a	n/a	8.12E-07	n/a	U
S09V001686		10045-97-3	Cesium-137	uCi/g	102	<2.87E-07	<4.02E-07	n/a	n/a	n/a	n/a	4.02E-07	n/a	U
S09V001686		14683-23-9	Europium-152	uCi/g	n/a	<1.08E-06	<1.32E-06	n/a	n/a	n/a	n/a	1.32E-06	n/a	U
S09V001686		15585-10-1	Europium-154	uCi/g	n/a	<7.65E-07	<1.02E-06	n/a	n/a	n/a	n/a	1.02E-06	n/a	U
S09V001686		14391-16-3	Europium-155	uCi/g	n/a	<3.66E-07	<5.24E-07	n/a	n/a	n/a	n/a	5.24E-07	n/a	U
S09V001686		15067-28-4	Lead-214	uCi/g	n/a	n/a	8.62E-07	n/a	n/a	n/a	n/a	6.04E-07	26.48	
S09V001686		14274-82-9	Thorium-228	uCi/g	n/a	<6.41E-06	<9.85E-06	n/a	n/a	n/a	n/a	9.85E-06	n/a	U
S09V001686		15065-10-8	Thorium-234	uCi/g	n/a	<2.05E-06	<3.31E-06	n/a	n/a	n/a	n/a	3.31E-06	n/a	U
S09V001686		15046-84-1	Iodine-129	uCi/g	94.7	<2.26E-07	<2.00E-07	n/a	n/a	n/a	n/a	2.00E-07	n/a	U
S09V001688	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	77.6	<774	<74.8	n/a	n/a	n/a	n/a	74.8	n/a	U
S09V001688	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<97.4	n/a	n/a	n/a	n/a	97.4	n/a	U
S09V001688	O	121-14-2	2,4-Dinitrotoluene	ug/kg	83.3	<381	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U
S09V001688	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<42.5	n/a	n/a	n/a	n/a	42.5	n/a	U
S09V001688	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S09V001688	O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<55.6	n/a	n/a	n/a	n/a	55.6	n/a	U
S09V001688	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<51.9	n/a	n/a	n/a	n/a	51.9	n/a	U
S09V001688	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<514	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S09V001688	O	83-32-9	Acenaphthene	ug/kg	84.7	<176	<17.0	n/a	n/a	n/a	n/a	17.0	n/a	U
S09V001688	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<36.5	n/a	n/a	n/a	n/a	36.5	n/a	U
S09V001688	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<47.3	n/a	n/a	n/a	n/a	47.3	n/a	U
S09V001688	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<412	<39.8	n/a	n/a	n/a	n/a	39.8	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H1
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001688		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<5.90E+03	<571	n/a	n/a	n/a	n/a	571	n/a	U
S09V001688		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<391	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S09V001688		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<500	72.6	n/a	n/a	n/a	n/a	48.3	n/a	J
S09V001688		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	78.2	<432	<41.8	n/a	n/a	n/a	n/a	41.8	n/a	U
S09V001688		O	95-57-8	2-Chlorophenol	ug/kg	77.8	<665	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S09V001688		O	218-01-9	Chrysene	ug/kg	n/a	<814	<78.7	n/a	n/a	n/a	n/a	78.7	n/a	U
S09V001688		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<511	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S09V001688		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<5.62E+03	<544	n/a	n/a	n/a	n/a	544	n/a	U
S09V001688		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<477	<46.1	n/a	n/a	n/a	n/a	46.1	n/a	U
S09V001688		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	65.2	<581	<56.2	n/a	n/a	n/a	n/a	56.2	n/a	U
S09V001688		O	206-44-0	Fluoranthene	ug/kg	n/a	<354	<34.2	n/a	n/a	n/a	n/a	34.2	n/a	U
S09V001688		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<697	<67.4	n/a	n/a	n/a	n/a	67.4	n/a	U
S09V001688		O	67-72-1	Hexachloroethane	ug/kg	n/a	<1.12E+03	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V001688		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<510	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S09V001688		O	91-20-3	Naphthalene	ug/kg	n/a	<626	<60.5	n/a	n/a	n/a	n/a	60.5	n/a	U
S09V001688		O	98-95-3	Nitrobenzene	ug/kg	n/a	<646	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S09V001688		O	129-00-0	Pyrene	ug/kg	88.0	<629	<60.8	n/a	n/a	n/a	n/a	60.8	n/a	U
S09V001688		O	110-86-1	Pyridine	ug/kg	n/a	<650	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S09V001688		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<1.08E+03	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V001688		O	128-37-0	BHT	ug/kg	n/a	<2.36E+03	<228	n/a	n/a	n/a	n/a	228	n/a	U
S09V001688		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<1.82E+03	<176	n/a	n/a	n/a	n/a	176	n/a	U
S09V001688		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<1.07E+03	<103	n/a	n/a	n/a	n/a	103	n/a	U
S09V001688		O	108-94-1	Cyclohexanone	ug/kg	n/a	<5.59E+03	<541	n/a	n/a	n/a	n/a	541	n/a	U
S09V001688		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<1.91E+03	<185	n/a	n/a	n/a	n/a	185	n/a	U
S09V001688		O	78-83-1	Isobutanol	ug/kg	n/a	<4.60E+03	<445	n/a	n/a	n/a	n/a	445	n/a	U
S09V001689		W	14762-75-5	Carbon-14	uCi/g	94.6	<3.01E-06	6.07E-06	n/a	n/a	n/a	n/a	3.23E-06	537.761	
S09V001689		W	16984-48-8	Fluoride	ug/g	93.1	<1.61E-03	1.65	n/a	n/a	n/a	n/a	0.0209	n/a	
S09V001689		W	GLYCOLAT	Glycolate	ug/g	93.4	<9.37E-03	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

28 - Feb - 2011 14:42:36
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H1
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001689		W	71-50-1	Acetate	ug/g	90.3	<6.04E-03	0.568	n/a	n/a	n/a	n/a	0.0783	n/a	B
S09V001689		W	FORMATE	Formate	ug/g	94.1	<4.67E-03	0.423	n/a	n/a	n/a	n/a	0.0606	n/a	B
S09V001689		W	16887-00-6	Chloride	ug/g	94.3	<9.98E-03	0.775	n/a	n/a	n/a	n/a	0.129	n/a	
S09V001689		W	14797-65-0	Nitrite	ug/g	105	<0.0192	1.18	n/a	n/a	n/a	n/a	0.249	n/a	B
S09V001689		W	14808-79-8	Sulfate	ug/g	96.0	<0.0187	27.5	n/a	n/a	n/a	n/a	0.242	n/a	
S09V001689		W	338-70-5	Oxalate	ug/g	94.2	<0.0231	0.571	n/a	n/a	n/a	n/a	0.300	n/a	B
S09V001689		W	24959-67-9	Bromide	ug/g	96.4	<0.0580	<0.752	n/a	n/a	n/a	n/a	0.752	n/a	U
S09V001689		W	14797-55-8	Nitrate	ug/g	93.5	<0.0208	4.09	n/a	n/a	n/a	n/a	0.270	n/a	
S09V001689		W	14265-44-2	Phosphate	ug/g	93.6	<0.0167	1.41	n/a	n/a	n/a	n/a	0.217	n/a	B
S09V001690		A	7429-90-5	Aluminum	ug/g	90.6	0.0355	7.44E+03	n/a	n/a	n/a	n/a	25.7	n/a	
S09V001690		A	7440-39-3	Barium	ug/g	90.5	<3.00E-03	89.8	n/a	n/a	n/a	n/a	2.57	n/a	
S09V001690		A	7440-41-7	Beryllium	ug/g	91.1	<1.00E-03	<0.857	n/a	n/a	n/a	n/a	0.857	n/a	U
S09V001690		A	7440-70-2	Calcium	ug/g	85.8	0.0779	9.15E+03	n/a	n/a	n/a	n/a	42.9	n/a	
S09V001690		A	7440-45-1	Cerium	ug/g	95.8	0.0361	40.1	n/a	n/a	n/a	n/a	25.7	n/a	CB
S09V001690		A	7440-50-8	Copper	ug/g	91.4	<5.00E-03	11.2	n/a	n/a	n/a	n/a	4.29	n/a	B
S09V001690		A	7439-89-6	Iron	ug/g	87.3	<5.00E-03	2.44E+04	n/a	n/a	n/a	n/a	4.29	n/a	
S09V001690		A	7440-09-7	Potassium	ug/g	103	<0.500	1.17E+03	n/a	n/a	n/a	n/a	429	n/a	BN
S09V001690		A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	11.7	n/a	n/a	n/a	n/a	2.57	n/a	B
S09V001690		A	7439-93-2	Lithium	ug/g	101	<3.00E-03	6.61	n/a	n/a	n/a	n/a	2.57	n/a	B
S09V001690		A	7439-95-4	Magnesium	ug/g	87.4	<0.0500	4.39E+03	n/a	n/a	n/a	n/a	42.9	n/a	
S09V001690		A	7439-96-5	Manganese	ug/g	86.2	<3.00E-03	384	n/a	n/a	n/a	n/a	2.57	n/a	
S09V001690		A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<17.1	n/a	n/a	n/a	n/a	17.1	n/a	U
S09V001690		A	7440-23-5	Sodium	ug/g	98.1	<0.100	454	n/a	n/a	n/a	n/a	85.7	n/a	BN
S09V001690		A	7440-00-8	Neodymium	ug/g	94.5	0.0176	23.1	n/a	n/a	n/a	n/a	8.57	n/a	B
S09V001690		A	7723-14-0	Phosphorus	ug/g	86.4	<0.0500	663	n/a	n/a	n/a	n/a	42.9	n/a	
S09V001690		A	7440-21-3	Silicon	ug/g	82.6	<0.0300	1.19E+03	n/a	n/a	n/a	n/a	25.7	n/a	
S09V001690		A	7440-24-6	Strontium	ug/g	90.9	<3.00E-03	34.8	n/a	n/a	n/a	n/a	2.57	n/a	M
S09V001690		A	7440-32-6	Titanium	ug/g	90.2	<5.00E-03	2.26E+03	n/a	n/a	n/a	n/a	4.29	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H1
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001690		A	7440-62-2	Vanadium	ug/g	90.0	<5.00E-03	70.7	n/a	n/a	n/a	n/a	4.29	n/a	
S09V001690		A	7440-65-5	Yttrium	ug/g	92.9	<2.00E-03	8.82	n/a	n/a	n/a	n/a	1.71	n/a	B
S09V001690		A	7440-66-6	Zinc	ug/g	87.3	<5.00E-03	33.4	n/a	n/a	n/a	n/a	4.29	n/a	B
S09V001690		A	7440-67-7	Zirconium	ug/g	88.5	<5.00E-03	20.9	n/a	n/a	n/a	n/a	4.29	n/a	B
S09V001690		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.40E-05	n/a	n/a	n/a	n/a	2.40E-05	n/a	U
S09V001690		A	TH-232	Thorium-232	ug/g	108	<3.40E-06	3.14	n/a	n/a	n/a	n/a	5.83E-04	n/a	
S09V001690		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	9.77E-05	n/a	n/a	n/a	n/a	3.43E-05	n/a	
S09V001690		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.71E-05	n/a	n/a	n/a	n/a	1.71E-05	n/a	U
S09V001690		A	15117-96-1	Uranium-235	ug/g	102	<2.20E-07	3.22E-03	n/a	n/a	n/a	n/a	3.77E-05	n/a	
S09V001690		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.37E-05	n/a	n/a	n/a	n/a	1.37E-05	n/a	U
S09V001690		A	13994-20-2	Neptunium-237	ug/g	116	<1.06E-06	<1.82E-04	n/a	n/a	n/a	n/a	1.82E-04	n/a	U
S09V001690		A	U-238	Uranium-238	ug/g	110	<1.10E-05	0.487	n/a	n/a	n/a	n/a	1.89E-03	n/a	
S09V001690		A	7440-22-4	Silver	ug/g	101	<4.00E-04	0.0707	n/a	n/a	n/a	n/a	0.0686	n/a	B
S09V001690		A	7440-38-2	Arsenic	ug/g	104	<2.10E-03	2.30	n/a	n/a	n/a	n/a	0.360	n/a	B
S09V001690		A	7440-48-4	Cobalt	ug/g	100	<1.00E-03	6.85	n/a	n/a	n/a	n/a	0.171	n/a	
S09V001690		A	7440-43-9	Cadmium	ug/g	100	<1.50E-04	0.0733	n/a	n/a	n/a	n/a	0.0257	n/a	B
S09V001690		A	7440-47-3	Chromium	ug/g	99.1	<7.00E-03	9.72	n/a	n/a	n/a	n/a	1.20	n/a	B
S09V001690		A	7439-92-1	Lead	ug/g	105	7.14E-03	5.23	n/a	n/a	n/a	n/a	1.06	n/a	B
S09V001690		A	7440-36-0	Antimony	ug/g	94.0	<2.20E-03	<0.377	n/a	n/a	n/a	n/a	0.377	n/a	U
S09V001690		A	7782-49-2	Selenium	ug/g	107	<3.05E-03	<0.523	n/a	n/a	n/a	n/a	0.523	n/a	U
S09V001690		A	7440-28-0	Thallium	ug/g	104	4.12E-04	0.0882	n/a	n/a	n/a	n/a	0.0257	n/a	CB
S09V001690		A	7440-02-0	Nickel	ug/g	101	<2.40E-03	10.4	n/a	n/a	n/a	n/a	0.412	n/a	M
S09V001691		S	14798-03-9	Ammonium	ug/g	98.0	<0.120	1.19	n/a	n/a	n/a	n/a	0.523	n/a	B
S09V001692		A	14133-76-7	Technetium-99	ug/g	112	<6.00E-06	<1.02E-03	n/a	n/a	n/a	n/a	1.02E-03	n/a	U
S09V001692		A	SN-117	Tin-117	ug/g	104	<2.20E-04	<0.0374	n/a	n/a	n/a	n/a	0.0374	n/a	U
S09V001692		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<6.80E-04	n/a	n/a	n/a	n/a	6.80E-04	n/a	U
S09V001693		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.02E-07	<1.65E-07	n/a	n/a	n/a	n/a	1.65E-07	n/a	U
S09V001693		E	14596-10-2	Americium-241	uCi/g	100	<5.04E-07	<4.13E-07	n/a	n/a	n/a	n/a	4.13E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H1
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001693		E	15510-73-3	Curium-242	uCi/g	n/a	<2.02E-07	<1.65E-07	n/a	n/a	n/a	n/a	1.65E-07	n/a	U
S09V001693		E	PU-239/240	Plutonium-239/240	uCi/g	96.4	<3.44E-07	<2.99E-07	n/a	n/a	n/a	n/a	2.99E-07	n/a	U
S09V001693		E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.44E-07	<2.99E-07	n/a	n/a	n/a	n/a	2.99E-07	n/a	U
S10V000013		WV	3812-32-6	Carbonate ion	MEQG	n/a	<4.80E-06	<4.80E-06	n/a	n/a	n/a	n/a	4.80E-06	n/a	
S10V000013		WV	71-52-3	Bicarbonate	MEQG	n/a	<4.80E-06	1.80E-03	n/a	n/a	n/a	n/a	4.80E-06	n/a	
S10V000014		E	SR-89/90	Strontium-89/90	uCi/g	101	<5.73E-07	2.95E-07	n/a	n/a	n/a	n/a	2.23E-07	117.963	
S10V000015		E	13981-37-8	Nickel-63	uCi/g	98.2	<5.29E-06	<3.18E-06	n/a	n/a	n/a	n/a	3.18E-06	n/a	U
S10V000015		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.53E-06	<1.26E-06	n/a	n/a	n/a	n/a	1.26E-06	n/a	U
S10V001158		W	10028-17-8	Tritium	uCi/g	91.5	<2.48E-06	<2.43E-06	n/a	n/a	n/a	n/a	2.43E-06	n/a	U
S10V001203		WV	14133-76-7	Technetium-99	ug/g	111	<3.00E-06	<3.00E-06	n/a	n/a	n/a	n/a	3.00E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H1A
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001682			BULKDENSI	Bulk Density	g/mL	n/a	n/a	1.96	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H1B
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001683			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.02	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H1C
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001684			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.13	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H3
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001679			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0989	n/a	n/a	n/a	n/a	0.0989	n/a	U
S09V001679			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S09V001679			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.228	n/a	n/a	n/a	n/a	0.228	n/a	U
S09V001679			75-35-4	1,1-Dichloroethene	ug/kg	117	<0.423	<0.455	n/a	n/a	n/a	n/a	0.455	n/a	U
S09V001679			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0578	n/a	n/a	n/a	n/a	0.0578	n/a	U
S09V001679			71-36-3	1-Butanol	ug/kg	110	<10.3	<11.1	n/a	n/a	n/a	n/a	11.1	n/a	U
S09V001679			108-10-1	Hexone	ug/kg	120	2.44	<1.84	n/a	n/a	n/a	n/a	1.84	n/a	U
S09V001679			67-64-1	Acetone	ug/kg	127	<2.20	<2.37	n/a	n/a	n/a	n/a	2.37	n/a	U
S09V001679			71-43-2	Benzene	ug/kg	110	<0.147	<0.158	n/a	n/a	n/a	n/a	0.158	n/a	U
S09V001679			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.173	n/a	n/a	n/a	n/a	0.173	n/a	U
S09V001679			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001679			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.141	n/a	n/a	n/a	n/a	0.141	n/a	U
S09V001679			108-90-7	Chlorobenzene	ug/kg	110	<0.0864	<0.0929	n/a	n/a	n/a	n/a	0.0929	n/a	U
S09V001679			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S09V001679			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.218	n/a	n/a	n/a	n/a	0.218	n/a	U
S09V001679			78-93-3	2-Butanone	ug/kg	118	<1.96	2.47	n/a	n/a	n/a	n/a	2.11	n/a	J
S09V001679			75-09-2	Methylenechloride	ug/kg	n/a	0.604	0.780	n/a	n/a	n/a	n/a	0.0688	n/a	B
S09V001679			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.118	n/a	n/a	n/a	n/a	0.118	n/a	U
S09V001679			108-88-3	Toluene	ug/kg	111	<0.0802	0.238	n/a	n/a	n/a	n/a	0.0862	n/a	J
S09V001679			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.291	n/a	n/a	n/a	n/a	0.291	n/a	U
S09V001679			79-01-6	Trichloroethene	ug/kg	109	<0.121	<0.130	n/a	n/a	n/a	n/a	0.130	n/a	U
S09V001679			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.186	n/a	n/a	n/a	n/a	0.186	n/a	U
S09V001679			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.195	n/a	n/a	n/a	n/a	0.195	n/a	U
S09V001679			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.326	n/a	n/a	n/a	n/a	0.326	n/a	U
S09V001679			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.125	n/a	n/a	n/a	n/a	0.125	n/a	U
S09V001679			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.632	n/a	n/a	n/a	n/a	0.632	n/a	U
S09V001679			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.631	n/a	n/a	n/a	n/a	0.631	n/a	U
S09V001679			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.275	n/a	n/a	n/a	n/a	0.275	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H3
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001679			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.101	n/a	n/a	n/a	n/a	0.101	n/a	U
S09V001679			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0989	n/a	n/a	n/a	n/a	0.0989	n/a	U
S09V001679			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.180	n/a	n/a	n/a	n/a	0.180	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H4
Sample Depth: 108.5-110.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001700			%WATERA	%WATER-APD	%	n/a	n/a	9.800	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001700			57-12-5	Cyanide	ug/g	91.3	<0.0110	<3.96	n/a	n/a	n/a	n/a	3.96	n/a	U
S09V001700			7439-97-6	Mercury	ug/g	99.8	<1.00E-04	<8.33E-03	n/a	n/a	n/a	n/a	8.33E-03	n/a	U
S09V001700			PH	pH	unitless	n/a	n/a	9.57	9.55	9.56	0.209	n/a	0.0100	n/a	
S09V001700			12597-04-5	Sulfide	ug/g	101	<0.180	7.42	8.47	7.95	13.3	110	6.88	n/a	B
S09V001701			13966-00-2	Potassium-40	uCi/g	n/a	n/a	9.69E-06	n/a	n/a	n/a	n/a	6.57E-06	43.89	
S09V001701			10198-40-0	Cobalt-60	uCi/g	98.6	<2.21E-07	<3.33E-07	n/a	n/a	n/a	n/a	3.33E-07	n/a	U
S09V001701			14234-35-6	Antimony-125	uCi/g	n/a	<5.73E-07	<8.39E-07	n/a	n/a	n/a	n/a	8.39E-07	n/a	U
S09V001701			10045-97-3	Cesium-137	uCi/g	102	<2.87E-07	<4.18E-07	n/a	n/a	n/a	n/a	4.18E-07	n/a	U
S09V001701			14683-23-9	Europium-152	uCi/g	n/a	<1.08E-06	<1.61E-06	n/a	n/a	n/a	n/a	1.61E-06	n/a	U
S09V001701			15585-10-1	Europium-154	uCi/g	n/a	<7.65E-07	<1.07E-06	n/a	n/a	n/a	n/a	1.07E-06	n/a	U
S09V001701			14391-16-3	Europium-155	uCi/g	n/a	<3.66E-07	<5.46E-07	n/a	n/a	n/a	n/a	5.46E-07	n/a	U
S09V001701			14733-03-0	Bismuth-214	uCi/g	n/a	n/a	7.11E-07	n/a	n/a	n/a	n/a	5.72E-07	48.96	
S09V001701			15067-28-4	Lead-214	uCi/g	n/a	n/a	1.47E-06	n/a	n/a	n/a	n/a	8.43E-07	21.52	
S09V001701			14274-82-9	Thorium-228	uCi/g	n/a	<6.41E-06	<1.02E-05	n/a	n/a	n/a	n/a	1.02E-05	n/a	U
S09V001701			15065-10-8	Thorium-234	uCi/g	n/a	<2.05E-06	<3.46E-06	n/a	n/a	n/a	n/a	3.46E-06	n/a	U
S09V001701			15046-84-1	Iodine-129	uCi/g	94.7	<2.26E-07	<2.02E-07	n/a	n/a	n/a	n/a	2.02E-07	n/a	U
S09V001703		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.2	<22.1	<77.2	n/a	n/a	n/a	64.9	77.2	n/a	U
S09V001703		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<28.8	<100	n/a	n/a	n/a	n/a	100	n/a	U
S09V001703		O	121-14-2	2,4-Dinitrotoluene	ug/kg	79.8	<10.9	<38.0	n/a	n/a	n/a	80.4	38.0	n/a	U
S09V001703		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<12.6	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S09V001703		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<14.1	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S09V001703		O	95-48-7	2-Methylphenol	ug/kg	n/a	<16.4	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S09V001703		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<15.3	<53.6	n/a	n/a	n/a	n/a	53.6	n/a	U
S09V001703		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<14.7	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S09V001703		O	83-32-9	Acenaphthene	ug/kg	81.0	<5.03	<17.6	n/a	n/a	n/a	74.4	17.6	n/a	U
S09V001703		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<10.8	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S09V001703		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<14.0	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H4
Sample Depth: 108.5-110.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001703		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<11.8	<41.1	n/a	n/a	n/a	n/a	41.1	n/a	U
S09V001703		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<169	<589	n/a	n/a	n/a	n/a	589	n/a	U
S09V001703		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<11.2	<39.0	n/a	n/a	n/a	n/a	39.0	n/a	U
S09V001703		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	17.0	<49.9	n/a	n/a	n/a	n/a	49.9	n/a	U
S09V001703		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	76.0	<12.3	<43.1	n/a	n/a	n/a	75.3	43.1	n/a	U
S09V001703		O	95-57-8	2-Chlorophenol	ug/kg	73.9	<19.0	<66.3	n/a	n/a	n/a	70.2	66.3	n/a	U
S09V001703		O	218-01-9	Chrysene	ug/kg	n/a	<23.3	<81.2	n/a	n/a	n/a	n/a	81.2	n/a	U
S09V001703		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<14.6	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S09V001703		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<161	<561	n/a	n/a	n/a	n/a	561	n/a	U
S09V001703		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<13.6	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S09V001703		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	64.0	<16.6	<58.0	n/a	n/a	n/a	60.7	58.0	n/a	U
S09V001703		O	206-44-0	Fluoranthene	ug/kg	n/a	<10.1	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S09V001703		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<19.9	<69.5	n/a	n/a	n/a	n/a	69.5	n/a	U
S09V001703		O	67-72-1	Hexachloroethane	ug/kg	n/a	<31.9	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V001703		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<14.6	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S09V001703		O	91-20-3	Naphthalene	ug/kg	n/a	<17.9	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S09V001703		O	98-95-3	Nitrobenzene	ug/kg	n/a	<18.5	<64.4	n/a	n/a	n/a	n/a	64.4	n/a	U
S09V001703		O	87-86-5	Pentachlorophenol	ug/kg	91.9	35.4	<37.4	n/a	n/a	n/a	92.7	37.4	n/a	U
S09V001703		O	129-00-0	Pyrene	ug/kg	91.8	<18.0	<62.8	n/a	n/a	n/a	86.0	62.8	n/a	U
S09V001703		O	110-86-1	Pyridine	ug/kg	n/a	<18.6	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	U
S09V001703		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<30.8	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V001703		O	128-37-0	BHT	ug/kg	n/a	<67.3	<235	n/a	n/a	n/a	n/a	235	n/a	U
S09V001703		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<52.1	<182	n/a	n/a	n/a	n/a	182	n/a	U
S09V001703		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<30.5	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001703		O	108-94-1	Cyclohexanone	ug/kg	n/a	<160	<558	n/a	n/a	n/a	n/a	558	n/a	U
S09V001703		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<54.7	<191	n/a	n/a	n/a	n/a	191	n/a	U
S09V001703		O	78-83-1	Isobutanol	ug/kg	n/a	<132	<459	n/a	n/a	n/a	n/a	459	n/a	U
S09V001704		W	14762-75-5	Carbon-14	uCi/g	94.6	<3.01E-06	<4.10E-06	n/a	n/a	n/a	n/a	4.10E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H4
Sample Depth: 108.5-110.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001704		W	16984-48-8	Fluoride	ug/g	93.1	<1.61E-03	0.807	n/a	n/a	n/a	n/a	0.0209	n/a	
S09V001704		W	GLYCOLAT	Glycolate	ug/g	93.4	<9.37E-03	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S09V001704		W	71-50-1	Acetate	ug/g	90.3	<6.04E-03	0.272	n/a	n/a	n/a	n/a	0.0784	n/a	B
S09V001704		W	FORMATE	Formate	ug/g	94.1	<4.67E-03	0.213	n/a	n/a	n/a	n/a	0.0606	n/a	B
S09V001704		W	16887-00-6	Chloride	ug/g	94.3	<9.98E-03	1.93	n/a	n/a	n/a	n/a	0.129	n/a	
S09V001704		W	14797-65-0	Nitrite	ug/g	105	<0.0192	3.21	n/a	n/a	n/a	n/a	0.249	n/a	B
S09V001704		W	14808-79-8	Sulfate	ug/g	96.0	<0.0187	37.2	n/a	n/a	n/a	n/a	0.243	n/a	
S09V001704		W	338-70-5	Oxalate	ug/g	94.2	<0.0231	0.387	n/a	n/a	n/a	n/a	0.300	n/a	B
S09V001704		W	24959-67-9	Bromide	ug/g	96.4	<0.0580	<0.752	n/a	n/a	n/a	n/a	0.752	n/a	U
S09V001704		W	14797-55-8	Nitrate	ug/g	93.5	<0.0208	8.65	n/a	n/a	n/a	n/a	0.270	n/a	
S09V001704		W	14265-44-2	Phosphate	ug/g	93.6	<0.0167	0.631	n/a	n/a	n/a	n/a	0.217	n/a	B
S09V001705		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.49E-05	n/a	n/a	n/a	n/a	2.49E-05	n/a	U
S09V001705		A	TH-232	Thorium-232	ug/g	108	<3.40E-06	3.61	n/a	n/a	n/a	n/a	6.05E-04	n/a	
S09V001705		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.53E-04	n/a	n/a	n/a	n/a	3.56E-05	n/a	
S09V001705		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.78E-05	n/a	n/a	n/a	n/a	1.78E-05	n/a	U
S09V001705		A	15117-96-1	Uranium-235	ug/g	102	<2.20E-07	3.39E-03	n/a	n/a	n/a	n/a	3.92E-05	n/a	
S09V001705		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.42E-05	n/a	n/a	n/a	n/a	1.42E-05	n/a	U
S09V001705		A	13994-20-2	Neptunium-237	ug/g	116	<1.06E-06	<1.89E-04	n/a	n/a	n/a	n/a	1.89E-04	n/a	U
S09V001705		A	U-238	Uranium-238	ug/g	110	<1.10E-05	0.506	n/a	n/a	n/a	n/a	1.96E-03	n/a	
S09V001705		A	7440-22-4	Silver	ug/g	101	<4.00E-04	<0.0712	n/a	n/a	n/a	n/a	0.0712	n/a	U
S09V001705		A	7440-48-4	Cobalt	ug/g	100	<1.00E-03	5.05	n/a	n/a	n/a	n/a	0.178	n/a	
S09V001705		A	7440-43-9	Cadmium	ug/g	100	<1.50E-04	0.0537	n/a	n/a	n/a	n/a	0.0267	n/a	B
S09V001705		A	7439-92-1	Lead	ug/g	105	7.14E-03	5.15	n/a	n/a	n/a	n/a	1.10	n/a	B
S09V001705		A	7440-28-0	Thallium	ug/g	104	4.12E-04	0.0683	n/a	n/a	n/a	n/a	0.0267	n/a	CB
S09V001706		S	14798-03-9	Ammonium	ug/g	101	<0.120	1.47	1.42	1.44	3.29	99.2	0.470	n/a	B
S09V001707		A	14133-76-7	Technetium-99	ug/g	112	<6.00E-06	<1.03E-03	n/a	n/a	n/a	n/a	1.03E-03	n/a	U
S09V001707		A	SN-117	Tin-117	ug/g	104	<2.20E-04	<0.0376	n/a	n/a	n/a	n/a	0.0376	n/a	U
S09V001707		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<6.84E-04	n/a	n/a	n/a	n/a	6.84E-04	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H4
Sample Depth: 108.5-110.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001708		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.02E-07	<1.87E-07	n/a	n/a	n/a	n/a	1.87E-07	n/a	U
S09V001708		E	14596-10-2	Americium-241	uCi/g	100	<5.04E-07	<4.68E-07	n/a	n/a	n/a	n/a	4.68E-07	n/a	U
S09V001708		E	15510-73-3	Curium-242	uCi/g	n/a	<2.02E-07	<1.87E-07	n/a	n/a	n/a	n/a	1.87E-07	n/a	U
S09V001708		E	PU-239/240	Plutonium-239/240	uCi/g	96.4	<3.44E-07	<2.45E-07	n/a	n/a	n/a	n/a	2.45E-07	n/a	U
S09V001708		E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.44E-07	<2.45E-07	n/a	n/a	n/a	n/a	2.45E-07	n/a	U
S10V000016		WV	3812-32-6	Carbonate ion	MEQG	n/a	<4.80E-06	<4.70E-06	1.00E-04	5.24E-05	182	n/a	4.70E-06	n/a	
S10V000016		WV	71-52-3	Bicarbonate	MEQG	n/a	<4.80E-06	1.00E-03	2.20E-03	1.60E-03	75.0	n/a	4.70E-06	n/a	
S10V000016		WV	14797-55-8	Nitrate	ug/g	99.5	0.0980	9.06	8.44	8.75	7.14	101	0.0231	n/a	
S10V000016		WV	14133-76-7	Technetium-99	ug/g	106	<4.00E-06	1.32E-05	1.26E-05	1.29E-05	4.39	97.3	4.44E-06	n/a	
S10V000017		E	SR-89/90	Strontium-89/90	uCi/g	101	<5.73E-07	<6.30E-07	n/a	n/a	n/a	n/a	6.30E-07	n/a	U
S10V000018		E	13981-37-8	Nickel-63	uCi/g	98.2	<5.29E-06	<4.37E-06	n/a	n/a	n/a	n/a	4.37E-06	n/a	U
S10V000018		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.53E-06	<1.54E-06	n/a	n/a	n/a	n/a	1.54E-06	n/a	U
S10V001148		A	7440-36-0	Antimony	ug/g	109	<4.40E-03	0.240	n/a	n/a	n/a	n/a	0.218	n/a	J
S10V001159		W	10028-17-8	Tritium	uCi/g	91.5	<2.48E-06	<3.51E-06	n/a	n/a	n/a	n/a	3.51E-06	n/a	U
S10V001194		A	7429-90-5	Aluminum	ug/g	89.4	<0.0300	7.35E+03	n/a	n/a	n/a	n/a	5.95	n/a	
S10V001194		A	7440-39-3	Barium	ug/g	90.1	<3.00E-03	64.7	n/a	n/a	n/a	n/a	0.595	n/a	
S10V001194		A	7440-41-7	Beryllium	ug/g	96.1	<1.00E-03	<0.198	n/a	n/a	n/a	n/a	0.198	n/a	U
S10V001194		A	7440-70-2	Calcium	ug/g	82.6	0.0830	7.70E+03	n/a	n/a	n/a	n/a	9.92	n/a	
S10V001194		A	7440-45-1	Cerium	ug/g	91.8	<0.0300	14.1	n/a	n/a	n/a	n/a	5.95	n/a	B
S10V001194		A	7440-48-4	Cobalt	ug/g	85.0	<0.0100	5.57	n/a	n/a	n/a	n/a	1.98	n/a	B
S10V001194		A	7440-47-3	Chromium	ug/g	83.9	<5.00E-03	14.7	n/a	n/a	n/a	n/a	0.992	n/a	
S10V001194		A	7440-50-8	Copper	ug/g	96.3	<5.00E-03	9.12	n/a	n/a	n/a	n/a	0.992	n/a	B
S10V001194		A	7439-89-6	Iron	ug/g	85.8	0.0392	1.51E+04	n/a	n/a	n/a	n/a	0.992	n/a	
S10V001194		A	7440-09-7	Potassium	ug/g	84.9	<0.500	1.30E+03	n/a	n/a	n/a	n/a	99.2	n/a	
S10V001194		A	7439-91-0	Lanthanum	ug/g	90.4	<3.00E-03	7.54	n/a	n/a	n/a	n/a	0.595	n/a	
S10V001194		A	7439-93-2	Lithium	ug/g	104	<3.00E-03	10.5	n/a	n/a	n/a	n/a	0.595	n/a	
S10V001194		A	7439-95-4	Magnesium	ug/g	87.0	<0.0500	5.04E+03	n/a	n/a	n/a	n/a	9.92	n/a	
S10V001194		A	7439-96-5	Manganese	ug/g	83.8	<3.00E-03	263	n/a	n/a	n/a	n/a	0.595	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H4
Sample Depth: 108.5-110.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001194		A	7439-98-7	Molybdenum	ug/g	87.1	<0.0200	<3.97	n/a	n/a	n/a	n/a	3.97	n/a	U
S10V001194		A	7440-23-5	Sodium	ug/g	103	<0.100	189	n/a	n/a	n/a	n/a	19.8	n/a	B
S10V001194		A	7440-02-0	Nickel	ug/g	85.2	<0.0200	16.0	n/a	n/a	n/a	n/a	3.97	n/a	
S10V001194		A	7723-14-0	Phosphorus	ug/g	88.6	<0.0500	471	n/a	n/a	n/a	n/a	9.92	n/a	
S10V001194		A	7704-34-9	Sulfur	ug/g	88.6	<0.100	45.8	n/a	n/a	n/a	n/a	19.8	n/a	B
S10V001194		A	7440-21-3	Silicon	ug/g	81.1	<0.0300	121	n/a	n/a	n/a	n/a	5.95	n/a	N
S10V001194		A	7440-24-6	Strontium	ug/g	89.7	<3.00E-03	33.3	n/a	n/a	n/a	n/a	0.595	n/a	
S10V001194		A	7440-32-6	Titanium	ug/g	86.2	<5.00E-03	723	n/a	n/a	n/a	n/a	0.992	n/a	
S10V001194		A	7440-62-2	Vanadium	ug/g	87.1	<5.00E-03	30.2	n/a	n/a	n/a	n/a	0.992	n/a	
S10V001194		A	7440-65-5	Yttrium	ug/g	90.1	<2.00E-03	5.01	n/a	n/a	n/a	n/a	0.397	n/a	
S10V001194		A	7440-66-6	Zinc	ug/g	88.6	<5.00E-03	32.6	n/a	n/a	n/a	n/a	0.992	n/a	
S10V001194		A	7440-67-7	Zirconium	ug/g	86.0	<5.00E-03	5.31	n/a	n/a	n/a	n/a	0.992	n/a	BN
S10V001194		A	7440-38-2	Arsenic	ug/g	118	<8.40E-03	2.59	n/a	n/a	n/a	n/a	0.0833	n/a	
S10V001194		A	7782-49-2	Selenium	ug/g	115	<0.0122	<0.121	n/a	n/a	n/a	n/a	0.121	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H4A
Sample Depth: 108.5-110.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001697			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.14	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H4B
Sample Depth: 108.5-110.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001698			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.14	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H4C
Sample Depth: 108.5-110.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001699			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.08	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H6
Sample Depth: 108.5-110.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001694			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0897	n/a	n/a	n/a	n/a	0.0897	n/a	U
S09V001694			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.162	n/a	n/a	n/a	n/a	0.162	n/a	U
S09V001694			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.206	n/a	n/a	n/a	n/a	0.206	n/a	U
S09V001694			75-35-4	1,1-Dichloroethene	ug/kg	104	<0.423	<0.412	n/a	n/a	n/a	103	0.412	n/a	U
S09V001694			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0524	n/a	n/a	n/a	n/a	0.0524	n/a	U
S09V001694			71-36-3	1-Butanol	ug/kg	112	<10.3	<10.0	n/a	n/a	n/a	78.1	10.0	n/a	U
S09V001694			108-10-1	Hexone	ug/kg	120	<1.71	2.04	n/a	n/a	n/a	106	1.66	n/a	J
S09V001694			67-64-1	Acetone	ug/kg	111	<2.20	<2.14	n/a	n/a	n/a	96.5	2.14	n/a	U
S09V001694			71-43-2	Benzene	ug/kg	104	<0.147	<0.144	n/a	n/a	n/a	98.8	0.144	n/a	U
S09V001694			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.157	n/a	n/a	n/a	n/a	0.157	n/a	U
S09V001694			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0910	n/a	n/a	n/a	n/a	0.0910	n/a	U
S09V001694			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.127	n/a	n/a	n/a	n/a	0.127	n/a	U
S09V001694			108-90-7	Chlorobenzene	ug/kg	108	<0.0864	<0.0842	n/a	n/a	n/a	101	0.0842	n/a	U
S09V001694			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S09V001694			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.198	n/a	n/a	n/a	n/a	0.198	n/a	U
S09V001694			78-93-3	2-Butanone	ug/kg	113	<1.96	2.22	n/a	n/a	n/a	95.8	1.91	n/a	J
S09V001694			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0624	n/a	n/a	n/a	n/a	0.0624	n/a	U
S09V001694			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.107	n/a	n/a	n/a	n/a	0.107	n/a	U
S09V001694			108-88-3	Toluene	ug/kg	111	<0.0802	0.223	n/a	n/a	n/a	104	0.0782	n/a	J
S09V001694			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.264	n/a	n/a	n/a	n/a	0.264	n/a	U
S09V001694			79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.118	n/a	n/a	n/a	96.9	0.118	n/a	U
S09V001694			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.169	n/a	n/a	n/a	n/a	0.169	n/a	U
S09V001694			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.177	n/a	n/a	n/a	n/a	0.177	n/a	U
S09V001694			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S09V001694			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.113	n/a	n/a	n/a	n/a	0.113	n/a	U
S09V001694			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.573	n/a	n/a	n/a	n/a	0.573	n/a	U
S09V001694			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.572	n/a	n/a	n/a	n/a	0.572	n/a	U
S09V001694			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H6
Sample Depth: 108.5-110.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001694			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0916	n/a	n/a	n/a	n/a	0.0916	n/a	U
S09V001694			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0897	n/a	n/a	n/a	n/a	0.0897	n/a	U
S09V001694			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.163	n/a	n/a	n/a	n/a	0.163	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H7
Sample Depth: 129-131

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001715			%WATERA	%WATER-APD	%	n/a	n/a	3.650	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001715			57-12-5	Cyanide	ug/g	91.3	<0.0110	<3.92	n/a	n/a	n/a	n/a	3.92	n/a	U
S09V001715			7439-97-6	Mercury	ug/g	99.8	<1.00E-04	<9.56E-03	n/a	n/a	n/a	n/a	9.56E-03	n/a	U
S09V001715			PH	pH	unitless	n/a	n/a	8.36	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001715			12597-04-5	Sulfide	ug/g	101	<0.180	<6.95	n/a	n/a	n/a	n/a	6.95	n/a	U
S09V001716			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.41E-05	n/a	n/a	n/a	n/a	6.51E-06	31.06	
S09V001716			10198-40-0	Cobalt-60	uCi/g	98.6	<2.21E-07	<3.30E-07	n/a	n/a	n/a	n/a	3.30E-07	n/a	U
S09V001716			14234-35-6	Antimony-125	uCi/g	n/a	<5.73E-07	<8.42E-07	n/a	n/a	n/a	n/a	8.42E-07	n/a	U
S09V001716			10045-97-3	Cesium-137	uCi/g	102	<2.87E-07	<4.23E-07	n/a	n/a	n/a	n/a	4.23E-07	n/a	U
S09V001716			14683-23-9	Europium-152	uCi/g	n/a	<1.08E-06	<1.51E-06	n/a	n/a	n/a	n/a	1.51E-06	n/a	U
S09V001716			15585-10-1	Europium-154	uCi/g	n/a	<7.65E-07	<9.91E-07	n/a	n/a	n/a	n/a	9.91E-07	n/a	U
S09V001716			14391-16-3	Europium-155	uCi/g	n/a	<3.66E-07	<5.31E-07	n/a	n/a	n/a	n/a	5.31E-07	n/a	U
S09V001716			15092-94-1	Lead-212	uCi/g	n/a	n/a	6.82E-07	n/a	n/a	n/a	n/a	4.66E-07	26.42	
S09V001716			14274-82-9	Thorium-228	uCi/g	n/a	<6.41E-06	<1.03E-05	n/a	n/a	n/a	n/a	1.03E-05	n/a	U
S09V001716			15065-10-8	Thorium-234	uCi/g	n/a	<2.05E-06	<3.38E-06	n/a	n/a	n/a	n/a	3.38E-06	n/a	U
S09V001716			15046-84-1	Iodine-129	uCi/g	94.7	<2.26E-07	<2.01E-07	n/a	n/a	n/a	n/a	2.01E-07	n/a	U
S09V001718		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.2	<22.1	<75.6	n/a	n/a	n/a	n/a	75.6	n/a	U
S09V001718		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<28.8	<98.4	n/a	n/a	n/a	n/a	98.4	n/a	U
S09V001718		O	121-14-2	2,4-Dinitrotoluene	ug/kg	79.8	<10.9	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U
S09V001718		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<12.6	<43.0	n/a	n/a	n/a	n/a	43.0	n/a	U
S09V001718		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<14.1	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S09V001718		O	95-48-7	2-Methylphenol	ug/kg	n/a	<16.4	<56.2	n/a	n/a	n/a	n/a	56.2	n/a	U
S09V001718		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<15.3	<52.5	n/a	n/a	n/a	n/a	52.5	n/a	U
S09V001718		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<14.7	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S09V001718		O	83-32-9	Acenaphthene	ug/kg	81.0	<5.03	<17.2	n/a	n/a	n/a	n/a	17.2	n/a	U
S09V001718		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<10.8	<36.9	n/a	n/a	n/a	n/a	36.9	n/a	U
S09V001718		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<14.0	<47.8	n/a	n/a	n/a	n/a	47.8	n/a	U
S09V001718		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<11.8	<40.2	n/a	n/a	n/a	n/a	40.2	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H7
Sample Depth: 129-131

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001718		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<169	<577	n/a	n/a	n/a	n/a	577	n/a	U
S09V001718		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<11.2	<38.2	n/a	n/a	n/a	n/a	38.2	n/a	U
S09V001718		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	17.0	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U
S09V001718		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	76.0	<12.3	<42.2	n/a	n/a	n/a	n/a	42.2	n/a	U
S09V001718		O	95-57-8	2-Chlorophenol	ug/kg	73.9	<19.0	<65.0	n/a	n/a	n/a	n/a	65.0	n/a	U
S09V001718		O	218-01-9	Chrysene	ug/kg	n/a	<23.3	<79.5	n/a	n/a	n/a	n/a	79.5	n/a	U
S09V001718		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<14.6	<49.9	n/a	n/a	n/a	n/a	49.9	n/a	U
S09V001718		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<161	<549	n/a	n/a	n/a	n/a	549	n/a	U
S09V001718		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<13.6	<46.6	n/a	n/a	n/a	n/a	46.6	n/a	U
S09V001718		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	64.0	<16.6	<56.8	n/a	n/a	n/a	n/a	56.8	n/a	U
S09V001718		O	206-44-0	Fluoranthene	ug/kg	n/a	<10.1	<34.6	n/a	n/a	n/a	n/a	34.6	n/a	U
S09V001718		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<19.9	<68.1	n/a	n/a	n/a	n/a	68.1	n/a	U
S09V001718		O	67-72-1	Hexachloroethane	ug/kg	n/a	<31.9	<109	n/a	n/a	n/a	n/a	109	n/a	U
S09V001718		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<14.6	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S09V001718		O	91-20-3	Naphthalene	ug/kg	n/a	<17.9	<61.2	n/a	n/a	n/a	n/a	61.2	n/a	U
S09V001718		O	98-95-3	Nitrobenzene	ug/kg	n/a	<18.5	<63.1	n/a	n/a	n/a	n/a	63.1	n/a	U
S09V001718		O	129-00-0	Pyrene	ug/kg	91.8	<18.0	<61.4	n/a	n/a	n/a	n/a	61.4	n/a	U
S09V001718		O	110-86-1	Pyridine	ug/kg	n/a	<18.6	<63.5	n/a	n/a	n/a	n/a	63.5	n/a	U
S09V001718		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<30.8	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V001718		O	128-37-0	BHT	ug/kg	n/a	<67.3	<230	n/a	n/a	n/a	n/a	230	n/a	U
S09V001718		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<52.1	<178	n/a	n/a	n/a	n/a	178	n/a	U
S09V001718		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<30.5	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V001718		O	108-94-1	Cyclohexanone	ug/kg	n/a	<160	<546	n/a	n/a	n/a	n/a	546	n/a	U
S09V001718		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<54.7	<187	n/a	n/a	n/a	n/a	187	n/a	U
S09V001718		O	78-83-1	Isobutanol	ug/kg	n/a	<132	<450	n/a	n/a	n/a	n/a	450	n/a	U
S09V001719		W	14762-75-5	Carbon-14	uCi/g	94.6	<3.01E-06	3.77E-05	n/a	n/a	n/a	n/a	3.17E-06	13.529	
S09V001719		W	16984-48-8	Fluoride	ug/g	93.1	<1.61E-03	0.459	n/a	n/a	n/a	n/a	0.0205	n/a	
S09V001719		W	GLYCOLAT	Glycolate	ug/g	93.4	<9.37E-03	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H7
Sample Depth: 129-131

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001719		W	71-50-1	Acetate	ug/g	90.3	<6.04E-03	0.158	n/a	n/a	n/a	n/a	0.0770	n/a	B
S09V001719		W	FORMATE	Formate	ug/g	94.1	<4.67E-03	0.306	n/a	n/a	n/a	n/a	0.0595	n/a	B
S09V001719		W	16887-00-6	Chloride	ug/g	94.3	<9.98E-03	1.02	n/a	n/a	n/a	n/a	0.127	n/a	
S09V001719		W	14797-65-0	Nitrite	ug/g	105	<0.0192	1.89	n/a	n/a	n/a	n/a	0.245	n/a	B
S09V001719		W	14808-79-8	Sulfate	ug/g	96.0	<0.0187	23.8	n/a	n/a	n/a	n/a	0.238	n/a	
S09V001719		W	338-70-5	Oxalate	ug/g	94.2	<0.0231	<0.294	n/a	n/a	n/a	n/a	0.294	n/a	U
S09V001719		W	24959-67-9	Bromide	ug/g	96.4	<0.0580	<0.739	n/a	n/a	n/a	n/a	0.739	n/a	U
S09V001719		W	14797-55-8	Nitrate	ug/g	93.5	<0.0208	6.37	n/a	n/a	n/a	n/a	0.265	n/a	
S09V001719		W	14265-44-2	Phosphate	ug/g	93.6	<0.0167	0.275	n/a	n/a	n/a	n/a	0.213	n/a	B
S09V001720		A	7429-90-5	Aluminum	ug/g	90.6	0.0355	6.58E+03	n/a	n/a	n/a	n/a	25.6	n/a	
S09V001720		A	7440-39-3	Barium	ug/g	90.5	<3.00E-03	49.0	n/a	n/a	n/a	n/a	2.56	n/a	
S09V001720		A	7440-41-7	Beryllium	ug/g	91.1	<1.00E-03	<0.853	n/a	n/a	n/a	n/a	0.853	n/a	U
S09V001720		A	7440-70-2	Calcium	ug/g	85.8	0.0779	7.37E+03	n/a	n/a	n/a	n/a	42.6	n/a	
S09V001720		A	7440-45-1	Cerium	ug/g	95.8	0.0361	26.0	n/a	n/a	n/a	n/a	25.6	n/a	CB
S09V001720		A	7440-50-8	Copper	ug/g	91.4	<5.00E-03	8.62	n/a	n/a	n/a	n/a	4.26	n/a	B
S09V001720		A	7439-89-6	Iron	ug/g	87.3	<5.00E-03	1.37E+04	n/a	n/a	n/a	n/a	4.26	n/a	
S09V001720		A	7440-09-7	Potassium	ug/g	103	<0.500	1.37E+03	n/a	n/a	n/a	n/a	426	n/a	BN
S09V001720		A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	4.77	n/a	n/a	n/a	n/a	2.56	n/a	B
S09V001720		A	7439-93-2	Lithium	ug/g	101	<3.00E-03	9.60	n/a	n/a	n/a	n/a	2.56	n/a	B
S09V001720		A	7439-95-4	Magnesium	ug/g	87.4	<0.0500	4.57E+03	n/a	n/a	n/a	n/a	42.6	n/a	
S09V001720		A	7439-96-5	Manganese	ug/g	86.2	<3.00E-03	229	n/a	n/a	n/a	n/a	2.56	n/a	
S09V001720		A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<17.1	n/a	n/a	n/a	n/a	17.1	n/a	U
S09V001720		A	7440-23-5	Sodium	ug/g	98.1	<0.100	143	n/a	n/a	n/a	n/a	85.3	n/a	BN
S09V001720		A	7440-00-8	Neodymium	ug/g	94.5	0.0176	16.0	n/a	n/a	n/a	n/a	8.53	n/a	CB
S09V001720		A	7723-14-0	Phosphorus	ug/g	86.4	<0.0500	426	n/a	n/a	n/a	n/a	42.6	n/a	B
S09V001720		A	7440-21-3	Silicon	ug/g	82.6	<0.0300	1.12E+03	n/a	n/a	n/a	n/a	25.6	n/a	
S09V001720		A	7440-24-6	Strontium	ug/g	90.9	<3.00E-03	32.4	n/a	n/a	n/a	n/a	2.56	n/a	M
S09V001720		A	7440-32-6	Titanium	ug/g	90.2	<5.00E-03	942	n/a	n/a	n/a	n/a	4.26	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H7
Sample Depth: 129-131

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001720	A	7440-62-2	Vanadium	ug/g	90.0	<5.00E-03	29.3	n/a	n/a	n/a	n/a	4.26	n/a	B
S09V001720	A	7440-65-5	Yttrium	ug/g	92.9	<2.00E-03	3.75	n/a	n/a	n/a	n/a	1.71	n/a	B
S09V001720	A	7440-66-6	Zinc	ug/g	87.3	<5.00E-03	27.3	n/a	n/a	n/a	n/a	4.26	n/a	B
S09V001720	A	7440-67-7	Zirconium	ug/g	88.5	<5.00E-03	6.01	n/a	n/a	n/a	n/a	4.26	n/a	B
S09V001720	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.39E-05	n/a	n/a	n/a	n/a	2.39E-05	n/a	U
S09V001720	A	TH-232	Thorium-232	ug/g	108	<3.40E-06	2.56	n/a	n/a	n/a	n/a	5.80E-04	n/a	
S09V001720	A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	9.47E-05	n/a	n/a	n/a	n/a	3.41E-05	n/a	
S09V001720	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.71E-05	n/a	n/a	n/a	n/a	1.71E-05	n/a	U
S09V001720	A	15117-96-1	Uranium-235	ug/g	102	<2.20E-07	2.41E-03	n/a	n/a	n/a	n/a	3.75E-05	n/a	
S09V001720	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.36E-05	n/a	n/a	n/a	n/a	1.36E-05	n/a	U
S09V001720	A	13994-20-2	Neptunium-237	ug/g	116	<1.06E-06	<1.81E-04	n/a	n/a	n/a	n/a	1.81E-04	n/a	U
S09V001720	A	U-238	Uranium-238	ug/g	110	<1.10E-05	0.359	n/a	n/a	n/a	n/a	1.88E-03	n/a	
S09V001720	A	7440-22-4	Silver	ug/g	101	<4.00E-04	<0.0682	n/a	n/a	n/a	n/a	0.0682	n/a	U
S09V001720	A	7440-38-2	Arsenic	ug/g	104	<2.10E-03	2.36	n/a	n/a	n/a	n/a	0.358	n/a	B
S09V001720	A	7440-48-4	Cobalt	ug/g	100	<1.00E-03	4.15	n/a	n/a	n/a	n/a	0.171	n/a	
S09V001720	A	7440-43-9	Cadmium	ug/g	100	<1.50E-04	0.0518	n/a	n/a	n/a	n/a	0.0256	n/a	B
S09V001720	A	7440-47-3	Chromium	ug/g	99.1	<7.00E-03	10.8	n/a	n/a	n/a	n/a	1.19	n/a	B
S09V001720	A	7439-92-1	Lead	ug/g	105	7.14E-03	4.15	n/a	n/a	n/a	n/a	1.06	n/a	B
S09V001720	A	7440-36-0	Antimony	ug/g	94.0	<2.20E-03	<0.375	n/a	n/a	n/a	n/a	0.375	n/a	U
S09V001720	A	7782-49-2	Selenium	ug/g	107	<3.05E-03	<0.520	n/a	n/a	n/a	n/a	0.520	n/a	U
S09V001720	A	7440-28-0	Thallium	ug/g	104	4.12E-04	0.0669	n/a	n/a	n/a	n/a	0.0256	n/a	CB
S09V001720	A	7440-02-0	Nickel	ug/g	101	<2.40E-03	13.0	n/a	n/a	n/a	n/a	0.409	n/a	M
S09V001721	S	14798-03-9	Ammonium	ug/g	101	<0.120	2.35	n/a	n/a	n/a	n/a	0.475	n/a	B
S09V001722	A	14133-76-7	Technetium-99	ug/g	112	<6.00E-06	<1.15E-03	n/a	n/a	n/a	n/a	1.15E-03	n/a	U
S09V001722	A	SN-117	Tin-117	ug/g	104	<2.20E-04	<0.0422	n/a	n/a	n/a	n/a	0.0422	n/a	U
S09V001722	A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.68E-04	n/a	n/a	n/a	n/a	7.68E-04	n/a	U
S09V001723	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.02E-07	<1.70E-07	n/a	n/a	n/a	n/a	1.70E-07	n/a	U
S09V001723	E	14596-10-2	Americium-241	uCi/g	100	<5.04E-07	<4.26E-07	n/a	n/a	n/a	n/a	4.26E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H7
Sample Depth: 129-131

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001723		E	15510-73-3	Curium-242	uCi/g	n/a	<2.02E-07	<1.70E-07	n/a	n/a	n/a	n/a	1.70E-07	n/a	U
S09V001723		E	PU-239/240	Plutonium-239/240	uCi/g	96.4	<3.44E-07	<2.00E-07	n/a	n/a	n/a	n/a	2.00E-07	n/a	U
S09V001723		E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.44E-07	<2.00E-07	n/a	n/a	n/a	n/a	2.00E-07	n/a	U
S10V000019		WV	3812-32-6	Carbonate ion	MEQG	n/a	<4.80E-06	<4.70E-06	n/a	n/a	n/a	n/a	4.70E-06	n/a	
S10V000019		WV	71-52-3	Bicarbonate	MEQG	n/a	<4.80E-06	1.00E-03	n/a	n/a	n/a	n/a	4.70E-06	n/a	
S10V000019		WV	14797-55-8	Nitrate	ug/g	99.5	0.0980	5.64	n/a	n/a	n/a	n/a	0.0203	n/a	
S10V000019		WV	14133-76-7	Technetium-99	ug/g	106	<4.00E-06	7.28E-06	n/a	n/a	n/a	n/a	3.90E-06	n/a	
S10V000020		E	SR-89/90	Strontium-89/90	uCi/g	101	<5.73E-07	<1.82E-07	n/a	n/a	n/a	n/a	1.82E-07	n/a	U
S10V000021		E	13981-37-8	Nickel-63	uCi/g	98.2	<5.29E-06	<4.48E-06	n/a	n/a	n/a	n/a	4.48E-06	n/a	U
S10V000021		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.53E-06	<2.49E-06	n/a	n/a	n/a	n/a	2.49E-06	n/a	U
S10V001160		W	10028-17-8	Tritium	uCi/g	91.5	<2.48E-06	<4.97E-06	n/a	n/a	n/a	n/a	4.97E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H7A
Sample Depth: 129-131

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001712			BULKDENSI	Bulk Density	g/mL	n/a	n/a	1.80	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H7B
Sample Depth: 129-131

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001713			BULKDENSI	Bulk Density	g/mL	n/a	n/a	1.98	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H7C
Sample Depth: 129-131

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001714			BULKDENSI	Bulk Density	g/mL	n/a	n/a	1.98	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H9
Sample Depth: 129-131

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001709			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0948	n/a	n/a	n/a	n/a	0.0948	n/a	U
S09V001709			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.171	n/a	n/a	n/a	n/a	0.171	n/a	U
S09V001709			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.218	n/a	n/a	n/a	n/a	0.218	n/a	U
S09V001709			75-35-4	1,1-Dichloroethene	ug/kg	104	<0.423	<0.436	n/a	n/a	n/a	n/a	0.436	n/a	U
S09V001709			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0555	n/a	n/a	n/a	n/a	0.0555	n/a	U
S09V001709			71-36-3	1-Butanol	ug/kg	112	<10.3	<10.6	n/a	n/a	n/a	n/a	10.6	n/a	U
S09V001709			108-10-1	Hexone	ug/kg	120	<1.71	2.03	n/a	n/a	n/a	n/a	1.76	n/a	J
S09V001709			67-64-1	Acetone	ug/kg	111	<2.20	<2.27	n/a	n/a	n/a	n/a	2.27	n/a	U
S09V001709			71-43-2	Benzene	ug/kg	104	<0.147	<0.152	n/a	n/a	n/a	n/a	0.152	n/a	U
S09V001709			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.166	n/a	n/a	n/a	n/a	0.166	n/a	U
S09V001709			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0963	n/a	n/a	n/a	n/a	0.0963	n/a	U
S09V001709			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.135	n/a	n/a	n/a	n/a	0.135	n/a	U
S09V001709			108-90-7	Chlorobenzene	ug/kg	108	<0.0864	<0.0891	n/a	n/a	n/a	n/a	0.0891	n/a	U
S09V001709			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001709			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.209	n/a	n/a	n/a	n/a	0.209	n/a	U
S09V001709			78-93-3	2-Butanone	ug/kg	113	<1.96	2.55	n/a	n/a	n/a	n/a	2.03	n/a	J
S09V001709			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0660	n/a	n/a	n/a	n/a	0.0660	n/a	U
S09V001709			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.113	n/a	n/a	n/a	n/a	0.113	n/a	U
S09V001709			108-88-3	Toluene	ug/kg	111	<0.0802	0.233	n/a	n/a	n/a	n/a	0.0827	n/a	J
S09V001709			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.279	n/a	n/a	n/a	n/a	0.279	n/a	U
S09V001709			79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.125	n/a	n/a	n/a	n/a	0.125	n/a	U
S09V001709			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V001709			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.187	n/a	n/a	n/a	n/a	0.187	n/a	U
S09V001709			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.312	n/a	n/a	n/a	n/a	0.312	n/a	U
S09V001709			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.120	n/a	n/a	n/a	n/a	0.120	n/a	U
S09V001709			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.606	n/a	n/a	n/a	n/a	0.606	n/a	U
S09V001709			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.605	n/a	n/a	n/a	n/a	0.605	n/a	U
S09V001709			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.264	n/a	n/a	n/a	n/a	0.264	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238H9
Sample Depth: 129-131

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001709			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0969	n/a	n/a	n/a	n/a	0.0969	n/a	U
S09V001709			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0948	n/a	n/a	n/a	n/a	0.0948	n/a	U
S09V001709			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.173	n/a	n/a	n/a	n/a	0.173	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J0
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001730			%WATERA	%WATER-APD	%	n/a	n/a	3.990	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001730			57-12-5	Cyanide	ug/g	92.1	<0.0370	<3.13	n/a	n/a	n/a	n/a	3.13	n/a	U
S09V001730			7439-97-6	Mercury	ug/g	99.8	<1.00E-04	<9.34E-03	n/a	n/a	n/a	n/a	9.34E-03	n/a	U
S09V001730			PH	pH	unitless	n/a	n/a	8.42	8.57	8.50	1.77	n/a	0.0100	n/a	
S09V001730			12597-04-5	Sulfide	ug/g	99.9	<0.180	10.4	11.1	10.8	7.34	96.5	7.11	n/a	B
S09V001731			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.24E-05	n/a	n/a	n/a	n/a	6.47E-06	34.59	
S09V001731			10198-40-0	Cobalt-60	uCi/g	98.6	<2.21E-07	<3.31E-07	n/a	n/a	n/a	n/a	3.31E-07	n/a	U
S09V001731			14234-35-6	Antimony-125	uCi/g	n/a	<5.73E-07	<8.69E-07	n/a	n/a	n/a	n/a	8.69E-07	n/a	U
S09V001731			10045-97-3	Cesium-137	uCi/g	102	<2.87E-07	<4.19E-07	n/a	n/a	n/a	n/a	4.19E-07	n/a	U
S09V001731			14683-23-9	Europium-152	uCi/g	n/a	<1.08E-06	<1.51E-06	n/a	n/a	n/a	n/a	1.51E-06	n/a	U
S09V001731			15585-10-1	Europium-154	uCi/g	n/a	<7.65E-07	<1.06E-06	n/a	n/a	n/a	n/a	1.06E-06	n/a	U
S09V001731			14391-16-3	Europium-155	uCi/g	n/a	<3.66E-07	<5.38E-07	n/a	n/a	n/a	n/a	5.38E-07	n/a	U
S09V001731			15092-94-1	Lead-212	uCi/g	n/a	n/a	8.92E-07	n/a	n/a	n/a	n/a	5.18E-07	20.95	
S09V001731			14274-82-9	Thorium-228	uCi/g	n/a	<6.41E-06	<9.75E-06	n/a	n/a	n/a	n/a	9.75E-06	n/a	U
S09V001731			15065-10-8	Thorium-234	uCi/g	n/a	<2.05E-06	<3.32E-06	n/a	n/a	n/a	n/a	3.32E-06	n/a	U
S09V001731			15046-84-1	Iodine-129	uCi/g	94.7	<2.26E-07	<2.10E-07	n/a	n/a	n/a	n/a	2.10E-07	n/a	U
S09V001733		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.2	<22.1	<76.0	n/a	n/a	n/a	n/a	76.0	n/a	U
S09V001733		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<28.8	<98.9	n/a	n/a	n/a	n/a	98.9	n/a	U
S09V001733		O	121-14-2	2,4-Dinitrotoluene	ug/kg	79.8	<10.9	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S09V001733		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<12.6	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S09V001733		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<14.1	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S09V001733		O	95-48-7	2-Methylphenol	ug/kg	n/a	<16.4	<56.5	n/a	n/a	n/a	n/a	56.5	n/a	U
S09V001733		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<15.3	<52.7	n/a	n/a	n/a	n/a	52.7	n/a	U
S09V001733		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<14.7	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S09V001733		O	83-32-9	Acenaphthene	ug/kg	81.0	<5.03	<17.3	n/a	n/a	n/a	n/a	17.3	n/a	U
S09V001733		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<10.8	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S09V001733		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<14.0	<48.0	n/a	n/a	n/a	n/a	48.0	n/a	U
S09V001733		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<11.8	<40.5	n/a	n/a	n/a	n/a	40.5	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J0
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001733		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<169	<580	n/a	n/a	n/a	n/a	580	n/a	U
S09V001733		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<11.2	<38.4	n/a	n/a	n/a	n/a	38.4	n/a	U
S09V001733		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	17.0	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S09V001733		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	76.0	<12.3	<42.4	n/a	n/a	n/a	n/a	42.4	n/a	U
S09V001733		O	95-57-8	2-Chlorophenol	ug/kg	73.9	<19.0	<65.3	n/a	n/a	n/a	n/a	65.3	n/a	U
S09V001733		O	218-01-9	Chrysene	ug/kg	n/a	<23.3	<79.9	n/a	n/a	n/a	n/a	79.9	n/a	U
S09V001733		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<14.6	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S09V001733		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<161	<552	n/a	n/a	n/a	n/a	552	n/a	U
S09V001733		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<13.6	<46.8	n/a	n/a	n/a	n/a	46.8	n/a	U
S09V001733		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	64.0	<16.6	<57.0	n/a	n/a	n/a	n/a	57.0	n/a	U
S09V001733		O	206-44-0	Fluoranthene	ug/kg	n/a	<10.1	<34.8	n/a	n/a	n/a	n/a	34.8	n/a	U
S09V001733		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<19.9	<68.4	n/a	n/a	n/a	n/a	68.4	n/a	U
S09V001733		O	67-72-1	Hexachloroethane	ug/kg	n/a	<31.9	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V001733		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<14.6	<50.1	n/a	n/a	n/a	n/a	50.1	n/a	U
S09V001733		O	91-20-3	Naphthalene	ug/kg	n/a	<17.9	<61.5	n/a	n/a	n/a	n/a	61.5	n/a	U
S09V001733		O	98-95-3	Nitrobenzene	ug/kg	n/a	<18.5	<63.4	n/a	n/a	n/a	n/a	63.4	n/a	U
S09V001733		O	87-86-5	Pentachlorophenol	ug/kg	91.9	35.4	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U
S09V001733		O	129-00-0	Pyrene	ug/kg	91.8	<18.0	<61.8	n/a	n/a	n/a	n/a	61.8	n/a	U
S09V001733		O	110-86-1	Pyridine	ug/kg	n/a	<18.6	<63.8	n/a	n/a	n/a	n/a	63.8	n/a	U
S09V001733		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<30.8	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001733		O	128-37-0	BHT	ug/kg	n/a	<67.3	<231	n/a	n/a	n/a	n/a	231	n/a	U
S09V001733		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<52.1	<179	n/a	n/a	n/a	n/a	179	n/a	U
S09V001733		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<30.5	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V001733		O	108-94-1	Cyclohexanone	ug/kg	n/a	<160	<549	n/a	n/a	n/a	n/a	549	n/a	U
S09V001733		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<54.7	<188	n/a	n/a	n/a	n/a	188	n/a	U
S09V001733		O	78-83-1	Isobutanol	ug/kg	n/a	<132	<452	n/a	n/a	n/a	n/a	452	n/a	U
S09V001734		W	14762-75-5	Carbon-14	uCi/g	94.6	<3.01E-06	<3.04E-06	n/a	n/a	n/a	n/a	3.04E-06	n/a	U
S09V001734		W	16984-48-8	Fluoride	ug/g	93.1	<1.61E-03	0.717	n/a	n/a	n/a	n/a	0.0206	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J0
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001734		W	GLYCOLAT	Glycolate	ug/g	93.4	<9.37E-03	<0.120	n/a	n/a	n/a	n/a	0.120	n/a	U
S09V001734		W	71-50-1	Acetate	ug/g	90.3	<6.04E-03	0.307	n/a	n/a	n/a	n/a	0.0772	n/a	B
S09V001734		W	FORMATE	Formate	ug/g	94.1	<4.67E-03	0.172	n/a	n/a	n/a	n/a	0.0597	n/a	B
S09V001734		W	16887-00-6	Chloride	ug/g	94.3	<9.98E-03	1.52	n/a	n/a	n/a	n/a	0.128	n/a	
S09V001734		W	14797-65-0	Nitrite	ug/g	105	<0.0192	2.14	n/a	n/a	n/a	n/a	0.246	n/a	B
S09V001734		W	14808-79-8	Sulfate	ug/g	96.0	<0.0187	24.8	n/a	n/a	n/a	n/a	0.239	n/a	
S09V001734		W	338-70-5	Oxalate	ug/g	94.2	<0.0231	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S09V001734		W	24959-67-9	Bromide	ug/g	96.4	<0.0580	<0.742	n/a	n/a	n/a	n/a	0.742	n/a	U
S09V001734		W	14797-55-8	Nitrate	ug/g	93.5	<0.0208	5.08	n/a	n/a	n/a	n/a	0.266	n/a	
S09V001734		W	14265-44-2	Phosphate	ug/g	93.6	<0.0167	0.448	n/a	n/a	n/a	n/a	0.214	n/a	B
S09V001735		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.58E-05	n/a	n/a	n/a	n/a	2.58E-05	n/a	U
S09V001735		A	TH-232	Thorium-232	ug/g	108	<3.40E-06	3.12	n/a	n/a	n/a	n/a	6.28E-04	n/a	
S09V001735		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.30E-04	n/a	n/a	n/a	n/a	3.69E-05	n/a	
S09V001735		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.85E-05	n/a	n/a	n/a	n/a	1.85E-05	n/a	U
S09V001735		A	15117-96-1	Uranium-235	ug/g	102	<2.20E-07	2.59E-03	n/a	n/a	n/a	n/a	4.06E-05	n/a	
S09V001735		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.48E-05	n/a	n/a	n/a	n/a	1.48E-05	n/a	U
S09V001735		A	13994-20-2	Neptunium-237	ug/g	116	<1.06E-06	<1.96E-04	n/a	n/a	n/a	n/a	1.96E-04	n/a	U
S09V001735		A	U-238	Uranium-238	ug/g	110	<1.10E-05	0.411	n/a	n/a	n/a	n/a	2.03E-03	n/a	
S09V001735		A	7440-22-4	Silver	ug/g	101	<4.00E-04	<0.0738	n/a	n/a	n/a	n/a	0.0738	n/a	U
S09V001735		A	7440-43-9	Cadmium	ug/g	100	<1.50E-04	0.0587	n/a	n/a	n/a	n/a	0.0277	n/a	B
S09V001735		A	7439-92-1	Lead	ug/g	105	7.14E-03	4.39	n/a	n/a	n/a	n/a	1.14	n/a	B
S09V001735		A	7440-28-0	Thallium	ug/g	104	4.12E-04	0.0685	n/a	n/a	n/a	n/a	0.0277	n/a	B
S09V001736		S	14798-03-9	Ammonium	ug/g	99.9	<0.120	1.61	1.11	1.36	36.5	103	0.445	n/a	B
S09V001737		A	14133-76-7	Technetium-99	ug/g	112	<6.00E-06	<1.15E-03	n/a	n/a	n/a	n/a	1.15E-03	n/a	U
S09V001737		A	SN-117	Tin-117	ug/g	104	<2.20E-04	<0.0422	n/a	n/a	n/a	n/a	0.0422	n/a	U
S09V001737		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.67E-04	n/a	n/a	n/a	n/a	7.67E-04	n/a	U
S09V001738		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.02E-07	<2.31E-07	n/a	n/a	n/a	n/a	2.31E-07	n/a	U
S09V001738		E	14596-10-2	Americium-241	uCi/g	100	<5.04E-07	<5.78E-07	n/a	n/a	n/a	n/a	5.78E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J0
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001738		E	15510-73-3	Curium-242	uCi/g	n/a	<2.02E-07	<2.31E-07	n/a	n/a	n/a	n/a	2.31E-07	n/a	U
S09V001738		E	PU-239/240	Plutonium-239/240	uCi/g	96.4	<3.44E-07	<2.71E-07	n/a	n/a	n/a	n/a	2.71E-07	n/a	U
S09V001738		E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.44E-07	<2.71E-07	n/a	n/a	n/a	n/a	2.71E-07	n/a	U
S10V000022		WV	3812-32-6	Carbonate ion	MEQG	n/a	<4.80E-06	<4.70E-06	<4.70E-06	n/a	n/a	n/a	4.70E-06	n/a	
S10V000022		WV	71-52-3	Bicarbonate	MEQG	n/a	<4.80E-06	1.10E-03	1.10E-03	1.10E-03	0.0	n/a	4.70E-06	n/a	
S10V000022		WV	14797-55-8	Nitrate	ug/g	101	<0.0208	3.07	3.00	3.04	2.23	99.1	0.0204	n/a	
S10V000022		WV	14133-76-7	Technetium-99	ug/g	118	<4.00E-06	<3.93E-06	<3.93E-06	n/a	n/a	110	3.93E-06	n/a	U
S10V000023		E	SR-89/90	Strontium-89/90	uCi/g	101	<5.73E-07	<1.85E-07	n/a	n/a	n/a	n/a	1.85E-07	n/a	U
S10V000024		E	13981-37-8	Nickel-63	uCi/g	98.2	<5.29E-06	<4.48E-06	n/a	n/a	n/a	n/a	4.48E-06	n/a	U
S10V000024		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.53E-06	<1.64E-06	n/a	n/a	n/a	n/a	1.64E-06	n/a	U
S10V001150		A	7440-36-0	Antimony	ug/g	109	<4.40E-03	<0.216	n/a	n/a	n/a	n/a	0.216	n/a	U
S10V001161		W	10028-17-8	Tritium	uCi/g	91.5	<2.48E-06	<2.41E-06	<2.96E-06	n/a	n/a	93.2	2.41E-06	n/a	U
S10V001196		A	7429-90-5	Aluminum	ug/g	89.4	<0.0300	6.14E+03	n/a	n/a	n/a	n/a	5.99	n/a	
S10V001196		A	7440-39-3	Barium	ug/g	90.1	<3.00E-03	58.7	n/a	n/a	n/a	n/a	0.599	n/a	
S10V001196		A	7440-41-7	Beryllium	ug/g	96.1	<1.00E-03	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S10V001196		A	7440-70-2	Calcium	ug/g	82.6	0.0830	8.04E+03	n/a	n/a	n/a	n/a	9.99	n/a	
S10V001196		A	7440-45-1	Cerium	ug/g	91.8	<0.0300	25.0	n/a	n/a	n/a	n/a	5.99	n/a	B
S10V001196		A	7440-48-4	Cobalt	ug/g	85.0	<0.0100	5.26	n/a	n/a	n/a	n/a	2.00	n/a	B
S10V001196		A	7440-47-3	Chromium	ug/g	83.9	<5.00E-03	18.6	n/a	n/a	n/a	n/a	0.999	n/a	
S10V001196		A	7440-50-8	Copper	ug/g	96.3	<5.00E-03	8.88	n/a	n/a	n/a	n/a	0.999	n/a	B
S10V001196		A	7439-89-6	Iron	ug/g	85.8	0.0392	1.54E+04	n/a	n/a	n/a	n/a	0.999	n/a	
S10V001196		A	7440-09-7	Potassium	ug/g	84.9	<0.500	1.02E+03	n/a	n/a	n/a	n/a	99.9	n/a	
S10V001196		A	7439-91-0	Lanthanum	ug/g	90.4	<3.00E-03	15.2	n/a	n/a	n/a	n/a	0.599	n/a	
S10V001196		A	7439-93-2	Lithium	ug/g	104	<3.00E-03	9.21	n/a	n/a	n/a	n/a	0.599	n/a	
S10V001196		A	7439-95-4	Magnesium	ug/g	87.0	<0.0500	4.79E+03	n/a	n/a	n/a	n/a	9.99	n/a	
S10V001196		A	7439-96-5	Manganese	ug/g	83.8	<3.00E-03	244	n/a	n/a	n/a	n/a	0.599	n/a	
S10V001196		A	7439-98-7	Molybdenum	ug/g	87.1	<0.0200	<4.00	n/a	n/a	n/a	n/a	4.00	n/a	U
S10V001196		A	7440-23-5	Sodium	ug/g	103	<0.100	193	n/a	n/a	n/a	n/a	20.0	n/a	B

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J0
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001196		A	7440-02-0	Nickel	ug/g	85.2	<0.0200	14.2	n/a	n/a	n/a	n/a	4.00	n/a	
S10V001196		A	7723-14-0	Phosphorus	ug/g	88.6	<0.0500	488	n/a	n/a	n/a	n/a	9.99	n/a	
S10V001196		A	7704-34-9	Sulfur	ug/g	88.6	<0.100	60.4	n/a	n/a	n/a	n/a	20.0	n/a	B
S10V001196		A	7440-21-3	Silicon	ug/g	81.1	<0.0300	77.5	n/a	n/a	n/a	n/a	5.99	n/a	N
S10V001196		A	7440-24-6	Strontium	ug/g	89.7	<3.00E-03	27.7	n/a	n/a	n/a	n/a	0.599	n/a	
S10V001196		A	7440-32-6	Titanium	ug/g	86.2	<5.00E-03	783	n/a	n/a	n/a	n/a	0.999	n/a	
S10V001196		A	7440-62-2	Vanadium	ug/g	87.1	<5.00E-03	29.7	n/a	n/a	n/a	n/a	0.999	n/a	
S10V001196		A	7440-65-5	Yttrium	ug/g	90.1	<2.00E-03	5.62	n/a	n/a	n/a	n/a	0.400	n/a	
S10V001196		A	7440-66-6	Zinc	ug/g	88.6	<5.00E-03	29.7	n/a	n/a	n/a	n/a	0.999	n/a	
S10V001196		A	7440-67-7	Zirconium	ug/g	86.0	<5.00E-03	5.87	n/a	n/a	n/a	n/a	0.999	n/a	BN
S10V001196		A	7440-38-2	Arsenic	ug/g	118	<8.40E-03	3.18	n/a	n/a	n/a	n/a	0.0839	n/a	
S10V001196		A	7782-49-2	Selenium	ug/g	115	<0.0122	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J0A
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001727			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.05	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J0C
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001729			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.17	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J2
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001724			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0913	n/a	n/a	n/a	n/a	0.0913	n/a	U
S09V001724			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V001724			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.210	n/a	n/a	n/a	n/a	0.210	n/a	U
S09V001724			75-35-4	1,1-Dichloroethene	ug/kg	104	<0.423	<0.420	n/a	n/a	n/a	n/a	0.420	n/a	U
S09V001724			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0534	n/a	n/a	n/a	n/a	0.0534	n/a	U
S09V001724			71-36-3	1-Butanol	ug/kg	112	<10.3	<10.2	n/a	n/a	n/a	n/a	10.2	n/a	U
S09V001724			108-10-1	Hexone	ug/kg	120	<1.71	<1.69	n/a	n/a	n/a	n/a	1.69	n/a	U
S09V001724			67-64-1	Acetone	ug/kg	111	<2.20	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
S09V001724			71-43-2	Benzene	ug/kg	104	<0.147	<0.146	n/a	n/a	n/a	n/a	0.146	n/a	U
S09V001724			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.160	n/a	n/a	n/a	n/a	0.160	n/a	U
S09V001724			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0927	n/a	n/a	n/a	n/a	0.0927	n/a	U
S09V001724			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.130	n/a	n/a	n/a	n/a	0.130	n/a	U
S09V001724			108-90-7	Chlorobenzene	ug/kg	108	<0.0864	<0.0857	n/a	n/a	n/a	n/a	0.0857	n/a	U
S09V001724			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.106	n/a	n/a	n/a	n/a	0.106	n/a	U
S09V001724			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.202	n/a	n/a	n/a	n/a	0.202	n/a	U
S09V001724			78-93-3	2-Butanone	ug/kg	113	<1.96	<1.95	n/a	n/a	n/a	n/a	1.95	n/a	U
S09V001724			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0635	n/a	n/a	n/a	n/a	0.0635	n/a	U
S09V001724			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S09V001724			108-88-3	Toluene	ug/kg	111	<0.0802	0.202	n/a	n/a	n/a	n/a	0.0796	n/a	J
S09V001724			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.269	n/a	n/a	n/a	n/a	0.269	n/a	U
S09V001724			79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.120	n/a	n/a	n/a	n/a	0.120	n/a	U
S09V001724			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.172	n/a	n/a	n/a	n/a	0.172	n/a	U
S09V001724			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.180	n/a	n/a	n/a	n/a	0.180	n/a	U
S09V001724			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.301	n/a	n/a	n/a	n/a	0.301	n/a	U
S09V001724			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S09V001724			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.583	n/a	n/a	n/a	n/a	0.583	n/a	U
S09V001724			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.583	n/a	n/a	n/a	n/a	0.583	n/a	U
S09V001724			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J2
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001724			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0933	n/a	n/a	n/a	n/a	0.0933	n/a	U
S09V001724			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0913	n/a	n/a	n/a	n/a	0.0913	n/a	U
S09V001724			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.166	n/a	n/a	n/a	n/a	0.166	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J3
Sample Depth: 158-160

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001745			%WATERA	%WATER-APD	%	n/a	n/a	4.020	3.930	3.975	2.264	n/a	0.01000	n/a	
S09V001745			57-12-5	Cyanide	ug/g	92.1	<0.0370	<3.04	<3.06	n/a	n/a	92.5	3.04	n/a	U
S09V001745			7439-97-6	Mercury	ug/g	99.8	<1.00E-04	<8.89E-03	n/a	n/a	n/a	n/a	8.89E-03	n/a	U
S09V001745			PH	pH	unitless	n/a	n/a	8.51	8.47	8.49	0.471	n/a	0.0100	n/a	
S09V001745			12597-04-5	Sulfide	ug/g	83.2	<0.180	<7.07	<7.04	n/a	n/a	92.0	7.07	n/a	U
S09V001746			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.40E-05	1.28E-05	1.34E-05	9.55	n/a	6.00E-06	29.13	
S09V001746			10198-40-0	Cobalt-60	uCi/g	98.6	<2.21E-07	<2.98E-07	<3.35E-07	n/a	n/a	n/a	2.98E-07	n/a	U
S09V001746			14234-35-6	Antimony-125	uCi/g	n/a	<5.73E-07	<7.94E-07	<8.35E-07	n/a	n/a	n/a	7.94E-07	n/a	U
S09V001746			10045-97-3	Cesium-137	uCi/g	102	<2.87E-07	<3.88E-07	<4.18E-07	n/a	n/a	n/a	3.88E-07	n/a	U
S09V001746			14683-23-9	Europium-152	uCi/g	n/a	<1.08E-06	<1.33E-06	<1.67E-06	n/a	n/a	n/a	1.33E-06	n/a	U
S09V001746			15585-10-1	Europium-154	uCi/g	n/a	<7.65E-07	<1.00E-06	<1.04E-06	n/a	n/a	n/a	1.00E-06	n/a	U
S09V001746			14391-16-3	Europium-155	uCi/g	n/a	<3.66E-07	<4.85E-07	<5.24E-07	n/a	n/a	n/a	4.85E-07	n/a	U
S09V001746			15092-94-1	Lead-212	uCi/g	n/a	n/a	5.18E-07	1.10E-06	8.07E-07	71.7	n/a	4.92E-07	41.62	
S09V001746			15067-28-4	Lead-214	uCi/g	n/a	n/a	6.43E-07	n/a	n/a	n/a	n/a	6.31E-07	45.47	
S09V001746			14274-82-9	Thorium-228	uCi/g	n/a	<6.41E-06	<9.48E-06	<1.02E-05	n/a	n/a	n/a	9.48E-06	n/a	U
S09V001746			15065-10-8	Thorium-234	uCi/g	n/a	<2.05E-06	<3.16E-06	<3.46E-06	n/a	n/a	n/a	3.16E-06	n/a	U
S09V001746			15046-84-1	Iodine-129	uCi/g	94.7	<2.26E-07	<2.16E-07	<2.24E-07	n/a	n/a	n/a	2.16E-07	n/a	U
S09V001748		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.1	<77.4	<76.7	n/a	n/a	n/a	67.7	76.7	n/a	U
S09V001748		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.8	n/a	n/a	n/a	n/a	99.8	n/a	U
S09V001748		O	121-14-2	2,4-Dinitrotoluene	ug/kg	85.5	<38.1	<37.7	n/a	n/a	n/a	85.1	37.7	n/a	U
S09V001748		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.6	n/a	n/a	n/a	n/a	43.6	n/a	U
S09V001748		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
S09V001748		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.0	n/a	n/a	n/a	n/a	57.0	n/a	U
S09V001748		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.2	n/a	n/a	n/a	n/a	53.2	n/a	U
S09V001748		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S09V001748		O	83-32-9	Acenaphthene	ug/kg	81.3	<17.6	<17.4	n/a	n/a	n/a	76.4	17.4	n/a	U
S09V001748		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
S09V001748		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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J3
Sample Depth: 158-160

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001748		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
S09V001748		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<585	n/a	n/a	n/a	n/a	585	n/a	U
S09V001748		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
S09V001748		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
S09V001748		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	77.8	<43.2	<42.8	n/a	n/a	n/a	76.6	42.8	n/a	U
S09V001748		O	95-57-8	2-Chlorophenol	ug/kg	72.4	<66.5	<65.9	n/a	n/a	n/a	70.4	65.9	n/a	U
S09V001748		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.6	n/a	n/a	n/a	n/a	80.6	n/a	U
S09V001748		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S09V001748		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<557	n/a	n/a	n/a	n/a	557	n/a	U
S09V001748		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.3	n/a	n/a	n/a	n/a	47.3	n/a	U
S09V001748		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	65.6	<58.1	<57.6	n/a	n/a	n/a	60.3	57.6	n/a	U
S09V001748		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.1	n/a	n/a	n/a	n/a	35.1	n/a	U
S09V001748		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.0	n/a	n/a	n/a	n/a	69.0	n/a	U
S09V001748		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V001748		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S09V001748		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.0	n/a	n/a	n/a	n/a	62.0	n/a	U
S09V001748		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.0	n/a	n/a	n/a	n/a	64.0	n/a	U
S09V001748		O	129-00-0	Pyrene	ug/kg	89.6	<62.9	<62.3	n/a	n/a	n/a	90.7	62.3	n/a	U
S09V001748		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.4	n/a	n/a	n/a	n/a	64.4	n/a	U
S09V001748		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V001748		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S09V001748		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<181	n/a	n/a	n/a	n/a	181	n/a	U
S09V001748		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001748		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<554	n/a	n/a	n/a	n/a	554	n/a	U
S09V001748		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S09V001748		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<456	n/a	n/a	n/a	n/a	456	n/a	U
S09V001749		W	14762-75-5	Carbon-14	uCi/g	94.6	<3.01E-06	<5.36E-06	n/a	n/a	n/a	n/a	5.36E-06	n/a	U
S09V001749		W	16984-48-8	Fluoride	ug/g	93.1	<1.61E-03	0.651	n/a	n/a	n/a	n/a	0.0208	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J3
Sample Depth: 158-160

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001749		W	GLYCOLAT	Glycolate	ug/g	93.4	<9.37E-03	<0.121	n/a	n/a	n/a	n/a	0.121	n/a	U
S09V001749		W	71-50-1	Acetate	ug/g	90.3	<6.04E-03	4.80	n/a	n/a	n/a	n/a	0.0780	n/a	
S09V001749		W	FORMATE	Formate	ug/g	94.1	<4.67E-03	0.138	n/a	n/a	n/a	n/a	0.0603	n/a	B
S09V001749		W	16887-00-6	Chloride	ug/g	94.3	<9.98E-03	2.57	n/a	n/a	n/a	n/a	0.129	n/a	
S09V001749		W	14797-65-0	Nitrite	ug/g	105	<0.0192	2.12	n/a	n/a	n/a	n/a	0.248	n/a	B
S09V001749		W	14808-79-8	Sulfate	ug/g	96.0	<0.0187	31.5	n/a	n/a	n/a	n/a	0.241	n/a	
S09V001749		W	338-70-5	Oxalate	ug/g	94.2	<0.0231	<0.298	n/a	n/a	n/a	n/a	0.298	n/a	U
S09V001749		W	24959-67-9	Bromide	ug/g	96.4	<0.0580	<0.749	n/a	n/a	n/a	n/a	0.749	n/a	U
S09V001749		W	14797-55-8	Nitrate	ug/g	93.5	<0.0208	4.62	n/a	n/a	n/a	n/a	0.268	n/a	
S09V001749		W	14265-44-2	Phosphate	ug/g	93.6	<0.0167	<0.216	n/a	n/a	n/a	n/a	0.216	n/a	U
S09V001750		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	2.40E-05	n/a	n/a	n/a	n/a	2.35E-05	n/a	
S09V001750		A	TH-232	Thorium-232	ug/g	108	<3.40E-06	2.76	n/a	n/a	n/a	n/a	5.71E-04	n/a	
S09V001750		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	7.69E-05	n/a	n/a	n/a	n/a	3.36E-05	n/a	
S09V001750		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.68E-05	n/a	n/a	n/a	n/a	1.68E-05	n/a	U
S09V001750		A	15117-96-1	Uranium-235	ug/g	102	<2.20E-07	3.76E-03	n/a	n/a	n/a	n/a	3.70E-05	n/a	
S09V001750		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.34E-05	n/a	n/a	n/a	n/a	1.34E-05	n/a	U
S09V001750		A	13994-20-2	Neptunium-237	ug/g	116	<1.06E-06	<1.78E-04	n/a	n/a	n/a	n/a	1.78E-04	n/a	U
S09V001750		A	U-238	Uranium-238	ug/g	110	<1.10E-05	0.553	n/a	n/a	n/a	n/a	1.85E-03	n/a	
S09V001750		A	7440-22-4	Silver	ug/g	101	<4.00E-04	<0.0672	n/a	n/a	n/a	n/a	0.0672	n/a	UM
S09V001750		A	7440-43-9	Cadmium	ug/g	100	<1.50E-04	0.0472	n/a	n/a	n/a	n/a	0.0252	n/a	B
S09V001750		A	7439-92-1	Lead	ug/g	105	7.14E-03	4.48	n/a	n/a	n/a	n/a	1.04	n/a	B
S09V001750		A	7440-28-0	Thallium	ug/g	104	4.12E-04	0.0695	n/a	n/a	n/a	n/a	0.0252	n/a	CB
S09V001751		S	14798-03-9	Ammonium	ug/g	98.1	0.289	1.85	1.74	1.79	6.16	111	0.527	n/a	CB
S09V001752		A	14133-76-7	Technetium-99	ug/g	112	<6.00E-06	<1.06E-03	n/a	n/a	n/a	n/a	1.06E-03	n/a	U
S09V001752		A	SN-117	Tin-117	ug/g	104	<2.20E-04	<0.0390	n/a	n/a	n/a	n/a	0.0390	n/a	U
S09V001752		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	2.30E-03	n/a	n/a	n/a	n/a	7.10E-04	n/a	B
S09V001753		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.02E-07	<1.68E-07	<1.70E-07	n/a	n/a	n/a	1.68E-07	n/a	U
S09V001753		E	14596-10-2	Americium-241	uCi/g	100	<5.04E-07	<4.21E-07	<4.26E-07	n/a	n/a	n/a	4.21E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J3
Sample Depth: 158-160

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001753		E	15510-73-3	Curium-242	uCi/g	n/a	<2.02E-07	<1.68E-07	<1.70E-07	n/a	n/a	n/a	1.68E-07	n/a	U
S09V001753		E	PU-239/240	Plutonium-239/240	uCi/g	96.4	<3.44E-07	<2.29E-07	<2.78E-07	n/a	n/a	n/a	2.29E-07	n/a	U
S09V001753		E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.44E-07	<2.29E-07	<2.78E-07	n/a	n/a	n/a	2.29E-07	n/a	U
S10V000025		WV	3812-32-6	Carbonate ion	MEQG	n/a	<4.80E-06	<4.70E-06	n/a	n/a	n/a	n/a	4.70E-06	n/a	
S10V000025		WV	71-52-3	Bicarbonate	MEQG	n/a	<4.80E-06	1.10E-03	n/a	n/a	n/a	n/a	4.70E-06	n/a	
S10V000025		WV	14797-55-8	Nitrate	ug/g	101	<0.0208	2.45	n/a	n/a	n/a	n/a	0.0205	n/a	
S10V000025		WV	14133-76-7	Technetium-99	ug/g	118	<4.00E-06	<3.95E-06	n/a	n/a	n/a	n/a	3.95E-06	n/a	U
S10V000026		E	SR-89/90	Strontium-89/90	uCi/g	101	<5.73E-07	<1.96E-07	<1.83E-07	n/a	n/a	n/a	1.96E-07	n/a	U
S10V000027		E	13981-37-8	Nickel-63	uCi/g	98.2	<5.29E-06	<4.99E-06	<6.73E-06	n/a	n/a	n/a	4.99E-06	n/a	U
S10V000027		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.53E-06	<1.31E-06	<1.38E-06	n/a	n/a	n/a	1.31E-06	n/a	U
S10V001151		A	7440-36-0	Antimony	ug/g	109	<4.40E-03	<0.209	n/a	n/a	n/a	n/a	0.209	n/a	U
S10V001162		W	10028-17-8	Tritium	uCi/g	91.5	<2.48E-06	<3.44E-06	n/a	n/a	n/a	n/a	3.44E-06	n/a	U
S10V001197		A	7429-90-5	Aluminum	ug/g	89.4	<0.0300	6.55E+03	n/a	n/a	n/a	n/a	5.87	n/a	
S10V001197		A	7440-39-3	Barium	ug/g	90.1	<3.00E-03	57.8	n/a	n/a	n/a	n/a	0.587	n/a	
S10V001197		A	7440-41-7	Beryllium	ug/g	96.1	<1.00E-03	<0.196	n/a	n/a	n/a	n/a	0.196	n/a	U
S10V001197		A	7440-70-2	Calcium	ug/g	82.6	0.0830	7.09E+03	n/a	n/a	n/a	n/a	9.78	n/a	
S10V001197		A	7440-45-1	Cerium	ug/g	91.8	<0.0300	18.2	n/a	n/a	n/a	n/a	5.87	n/a	B
S10V001197		A	7440-48-4	Cobalt	ug/g	85.0	<0.0100	6.10	n/a	n/a	n/a	n/a	1.96	n/a	B
S10V001197		A	7440-47-3	Chromium	ug/g	83.9	<5.00E-03	19.2	n/a	n/a	n/a	n/a	0.978	n/a	
S10V001197		A	7440-50-8	Copper	ug/g	96.3	<5.00E-03	10.3	n/a	n/a	n/a	n/a	0.978	n/a	
S10V001197		A	7439-89-6	Iron	ug/g	85.8	0.0392	1.54E+04	n/a	n/a	n/a	n/a	0.978	n/a	
S10V001197		A	7440-09-7	Potassium	ug/g	84.9	<0.500	997	n/a	n/a	n/a	n/a	97.8	n/a	
S10V001197		A	7439-91-0	Lanthanum	ug/g	90.4	<3.00E-03	10.3	n/a	n/a	n/a	n/a	0.587	n/a	
S10V001197		A	7439-93-2	Lithium	ug/g	104	<3.00E-03	9.16	n/a	n/a	n/a	n/a	0.587	n/a	
S10V001197		A	7439-95-4	Magnesium	ug/g	87.0	<0.0500	5.15E+03	n/a	n/a	n/a	n/a	9.78	n/a	
S10V001197		A	7439-96-5	Manganese	ug/g	83.8	<3.00E-03	254	n/a	n/a	n/a	n/a	0.587	n/a	
S10V001197		A	7439-98-7	Molybdenum	ug/g	87.1	<0.0200	<3.91	n/a	n/a	n/a	n/a	3.91	n/a	U
S10V001197		A	7440-23-5	Sodium	ug/g	103	<0.100	244	n/a	n/a	n/a	n/a	19.6	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J3
Sample Depth: 158-160

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001197		A	7440-02-0	Nickel	ug/g	85.2	<0.0200	17.6	n/a	n/a	n/a	n/a	3.91	n/a	
S10V001197		A	7723-14-0	Phosphorus	ug/g	88.6	<0.0500	517	n/a	n/a	n/a	n/a	9.78	n/a	
S10V001197		A	7704-34-9	Sulfur	ug/g	88.6	<0.100	45.3	n/a	n/a	n/a	n/a	19.6	n/a	B
S10V001197		A	7440-21-3	Silicon	ug/g	81.1	<0.0300	94.4	n/a	n/a	n/a	n/a	5.87	n/a	N
S10V001197		A	7440-24-6	Strontium	ug/g	89.7	<3.00E-03	32.8	n/a	n/a	n/a	n/a	0.587	n/a	
S10V001197		A	7440-32-6	Titanium	ug/g	86.2	<5.00E-03	874	n/a	n/a	n/a	n/a	0.978	n/a	
S10V001197		A	7440-62-2	Vanadium	ug/g	87.1	<5.00E-03	33.9	n/a	n/a	n/a	n/a	0.978	n/a	
S10V001197		A	7440-65-5	Yttrium	ug/g	90.1	<2.00E-03	5.69	n/a	n/a	n/a	n/a	0.391	n/a	
S10V001197		A	7440-66-6	Zinc	ug/g	88.6	<5.00E-03	29.8	n/a	n/a	n/a	n/a	0.978	n/a	
S10V001197		A	7440-67-7	Zirconium	ug/g	86.0	<5.00E-03	6.66	n/a	n/a	n/a	n/a	0.978	n/a	BN
S10V001197		A	7440-38-2	Arsenic	ug/g	118	<8.40E-03	2.32	n/a	n/a	n/a	n/a	0.0822	n/a	
S10V001197		A	7782-49-2	Selenium	ug/g	115	<0.0122	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J3A
Sample Depth: 158-160

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001742			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.09	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J3B
Sample Depth: 158-160

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001743			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.21	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J3C
Sample Depth: 158-160

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001744			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.27	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J5
Sample Depth: 158-160

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001739			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0916	n/a	n/a	n/a	n/a	0.0916	n/a	U
S09V001739			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U
S09V001739			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V001739			75-35-4	1,1-Dichloroethene	ug/kg	104	<0.423	<0.422	n/a	n/a	n/a	n/a	0.422	n/a	U
S09V001739			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0536	n/a	n/a	n/a	n/a	0.0536	n/a	U
S09V001739			71-36-3	1-Butanol	ug/kg	112	<10.3	<10.3	n/a	n/a	n/a	n/a	10.3	n/a	U
S09V001739			108-10-1	Hexone	ug/kg	120	<1.71	<1.70	n/a	n/a	n/a	n/a	1.70	n/a	U
S09V001739			67-64-1	Acetone	ug/kg	111	<2.20	<2.19	n/a	n/a	n/a	n/a	2.19	n/a	U
S09V001739			71-43-2	Benzene	ug/kg	104	<0.147	<0.147	n/a	n/a	n/a	n/a	0.147	n/a	U
S09V001739			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.160	n/a	n/a	n/a	n/a	0.160	n/a	U
S09V001739			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0930	n/a	n/a	n/a	n/a	0.0930	n/a	U
S09V001739			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.130	n/a	n/a	n/a	n/a	0.130	n/a	U
S09V001739			108-90-7	Chlorobenzene	ug/kg	108	<0.0864	<0.0861	n/a	n/a	n/a	n/a	0.0861	n/a	U
S09V001739			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
S09V001739			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.202	n/a	n/a	n/a	n/a	0.202	n/a	U
S09V001739			78-93-3	2-Butanone	ug/kg	113	<1.96	<1.96	n/a	n/a	n/a	n/a	1.96	n/a	U
S09V001739			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0637	n/a	n/a	n/a	n/a	0.0637	n/a	U
S09V001739			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S09V001739			108-88-3	Toluene	ug/kg	111	<0.0802	0.161	n/a	n/a	n/a	n/a	0.0799	n/a	J
S09V001739			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.270	n/a	n/a	n/a	n/a	0.270	n/a	U
S09V001739			79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.121	n/a	n/a	n/a	n/a	0.121	n/a	U
S09V001739			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
S09V001739			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.181	n/a	n/a	n/a	n/a	0.181	n/a	U
S09V001739			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.302	n/a	n/a	n/a	n/a	0.302	n/a	U
S09V001739			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
S09V001739			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.586	n/a	n/a	n/a	n/a	0.586	n/a	U
S09V001739			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.585	n/a	n/a	n/a	n/a	0.585	n/a	U
S09V001739			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.255	n/a	n/a	n/a	n/a	0.255	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J5
Sample Depth: 158-160

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001739			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0936	n/a	n/a	n/a	n/a	0.0936	n/a	U
S09V001739			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0916	n/a	n/a	n/a	n/a	0.0916	n/a	U
S09V001739			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

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J6
Sample Depth: 195-197

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001760			%WATERA	%WATER-APD	%	n/a	n/a	3.820	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001760			57-12-5	Cyanide	ug/g	92.1	<0.0370	<3.07	n/a	n/a	n/a	n/a	3.07	n/a	U
S09V001760			7439-97-6	Mercury	ug/g	99.0	<1.00E-04	<8.92E-03	n/a	n/a	n/a	n/a	8.92E-03	n/a	U
S09V001760			PH	pH	unitless	n/a	n/a	8.05	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001760			12597-04-5	Sulfide	ug/g	83.2	<0.180	8.08	n/a	n/a	n/a	n/a	7.28	n/a	B
S09V001761			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.26E-05	n/a	n/a	n/a	n/a	5.59E-06	30.16	
S09V001761			10198-40-0	Cobalt-60	uCi/g	98.6	<2.21E-07	<2.97E-07	n/a	n/a	n/a	n/a	2.97E-07	n/a	U
S09V001761			14234-35-6	Antimony-125	uCi/g	n/a	<5.73E-07	<7.45E-07	n/a	n/a	n/a	n/a	7.45E-07	n/a	U
S09V001761			10045-97-3	Cesium-137	uCi/g	102	<2.87E-07	<3.51E-07	n/a	n/a	n/a	n/a	3.51E-07	n/a	U
S09V001761			14683-23-9	Europium-152	uCi/g	n/a	<1.08E-06	<1.27E-06	n/a	n/a	n/a	n/a	1.27E-06	n/a	U
S09V001761			15585-10-1	Europium-154	uCi/g	n/a	<7.65E-07	<9.34E-07	n/a	n/a	n/a	n/a	9.34E-07	n/a	U
S09V001761			14391-16-3	Europium-155	uCi/g	n/a	<3.66E-07	<4.53E-07	n/a	n/a	n/a	n/a	4.53E-07	n/a	U
S09V001761			15092-94-1	Lead-212	uCi/g	n/a	n/a	5.06E-07	n/a	n/a	n/a	n/a	5.26E-07	40.32	
S09V001761			14274-82-9	Thorium-228	uCi/g	n/a	<6.41E-06	<8.64E-06	n/a	n/a	n/a	n/a	8.64E-06	n/a	U
S09V001761			15065-10-8	Thorium-234	uCi/g	n/a	<2.05E-06	<2.95E-06	n/a	n/a	n/a	n/a	2.95E-06	n/a	U
S09V001761			15046-84-1	Iodine-129	uCi/g	94.7	<2.26E-07	<1.92E-07	n/a	n/a	n/a	n/a	1.92E-07	n/a	U
S09V001763		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.1	<77.4	<76.1	n/a	n/a	n/a	n/a	76.1	n/a	U
S09V001763		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.1	n/a	n/a	n/a	n/a	99.1	n/a	U
S09V001763		O	121-14-2	2,4-Dinitrotoluene	ug/kg	85.5	<38.1	<37.5	n/a	n/a	n/a	n/a	37.5	n/a	U
S09V001763		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.3	n/a	n/a	n/a	n/a	43.3	n/a	U
S09V001763		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S09V001763		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S09V001763		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.8	n/a	n/a	n/a	n/a	52.8	n/a	U
S09V001763		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S09V001763		O	83-32-9	Acenaphthene	ug/kg	81.3	<17.6	<17.3	n/a	n/a	n/a	n/a	17.3	n/a	U
S09V001763		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U
S09V001763		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U
S09V001763		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.5	n/a	n/a	n/a	n/a	40.5	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J6
Sample Depth: 195-197

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001763		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<581	n/a	n/a	n/a	n/a	581	n/a	U
S09V001763		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.5	n/a	n/a	n/a	n/a	38.5	n/a	U
S09V001763		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S09V001763		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	77.8	<43.2	<42.5	n/a	n/a	n/a	n/a	42.5	n/a	U
S09V001763		O	95-57-8	2-Chlorophenol	ug/kg	72.4	<66.5	<65.4	n/a	n/a	n/a	n/a	65.4	n/a	U
S09V001763		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.1	n/a	n/a	n/a	n/a	80.1	n/a	U
S09V001763		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.3	n/a	n/a	n/a	n/a	50.3	n/a	U
S09V001763		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<553	n/a	n/a	n/a	n/a	553	n/a	U
S09V001763		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.9	n/a	n/a	n/a	n/a	46.9	n/a	U
S09V001763		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	65.6	<58.1	<57.1	n/a	n/a	n/a	n/a	57.1	n/a	U
S09V001763		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.8	n/a	n/a	n/a	n/a	34.8	n/a	U
S09V001763		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.6	n/a	n/a	n/a	n/a	68.6	n/a	U
S09V001763		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V001763		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S09V001763		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.6	n/a	n/a	n/a	n/a	61.6	n/a	U
S09V001763		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.5	n/a	n/a	n/a	n/a	63.5	n/a	U
S09V001763		O	129-00-0	Pyrene	ug/kg	89.6	<62.9	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S09V001763		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S09V001763		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001763		O	128-37-0	BHT	ug/kg	n/a	<236	<232	n/a	n/a	n/a	n/a	232	n/a	U
S09V001763		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<179	n/a	n/a	n/a	n/a	179	n/a	U
S09V001763		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V001763		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<550	n/a	n/a	n/a	n/a	550	n/a	U
S09V001763		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<188	n/a	n/a	n/a	n/a	188	n/a	U
S09V001763		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<453	n/a	n/a	n/a	n/a	453	n/a	U
S09V001764		W	14762-75-5	Carbon-14	uCi/g	94.6	<3.01E-06	3.37E-05	n/a	n/a	n/a	n/a	2.97E-06	11.04	
S09V001764		W	16984-48-8	Fluoride	ug/g	93.1	<1.61E-03	0.724	n/a	n/a	n/a	n/a	0.0204	n/a	
S09V001764		W	GLYCOLAT	Glycolate	ug/g	93.4	<9.37E-03	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J6
Sample Depth: 195-197

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001764		W	71-50-1	Acetate	ug/g	90.3	<6.04E-03	0.589	n/a	n/a	n/a	n/a	0.0766	n/a	B
S09V001764		W	FORMATE	Formate	ug/g	94.1	<4.67E-03	1.02	n/a	n/a	n/a	n/a	0.0593	n/a	B
S09V001764		W	16887-00-6	Chloride	ug/g	94.3	<9.98E-03	3.02	n/a	n/a	n/a	n/a	0.127	n/a	
S09V001764		W	14797-65-0	Nitrite	ug/g	105	<0.0192	3.54	n/a	n/a	n/a	n/a	0.244	n/a	
S09V001764		W	14808-79-8	Sulfate	ug/g	96.0	<0.0187	53.6	n/a	n/a	n/a	n/a	0.237	n/a	
S09V001764		W	338-70-5	Oxalate	ug/g	94.2	<0.0231	3.13	n/a	n/a	n/a	n/a	0.293	n/a	
S09V001764		W	24959-67-9	Bromide	ug/g	96.4	<0.0580	<0.736	n/a	n/a	n/a	n/a	0.736	n/a	U
S09V001764		W	14797-55-8	Nitrate	ug/g	93.5	<0.0208	8.97	n/a	n/a	n/a	n/a	0.264	n/a	
S09V001764		W	14265-44-2	Phosphate	ug/g	93.6	<0.0167	0.466	n/a	n/a	n/a	n/a	0.212	n/a	B
S09V001765		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.48E-05	n/a	n/a	n/a	n/a	2.48E-05	n/a	U
S09V001765		A	TH-232	Thorium-232	ug/g	108	<3.40E-06	2.20	n/a	n/a	n/a	n/a	6.02E-04	n/a	
S09V001765		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.19E-04	n/a	n/a	n/a	n/a	3.54E-05	n/a	
S09V001765		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.77E-05	n/a	n/a	n/a	n/a	1.77E-05	n/a	U
S09V001765		A	15117-96-1	Uranium-235	ug/g	102	<2.20E-07	2.67E-03	n/a	n/a	n/a	n/a	3.89E-05	n/a	
S09V001765		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.42E-05	n/a	n/a	n/a	n/a	1.42E-05	n/a	U
S09V001765		A	13994-20-2	Neptunium-237	ug/g	116	<1.06E-06	<1.88E-04	n/a	n/a	n/a	n/a	1.88E-04	n/a	U
S09V001765		A	U-238	Uranium-238	ug/g	110	<1.10E-05	0.396	n/a	n/a	n/a	n/a	1.95E-03	n/a	
S09V001765		A	7440-22-4	Silver	ug/g	101	<4.00E-04	0.0722	n/a	n/a	n/a	n/a	0.0708	n/a	B
S09V001765		A	7440-43-9	Cadmium	ug/g	100	<1.50E-04	0.0897	n/a	n/a	n/a	n/a	0.0265	n/a	B
S09V001765		A	7439-92-1	Lead	ug/g	105	7.14E-03	3.50	n/a	n/a	n/a	n/a	1.10	n/a	B
S09V001765		A	7440-28-0	Thallium	ug/g	104	4.12E-04	0.0707	n/a	n/a	n/a	n/a	0.0265	n/a	CB
S09V001766		S	14798-03-9	Ammonium	ug/g	98.1	0.289	17.3	n/a	n/a	n/a	n/a	5.68	n/a	CB
S09V001767		A	14133-76-7	Technetium-99	ug/g	112	<6.00E-06	<1.07E-03	n/a	n/a	n/a	n/a	1.07E-03	n/a	U
S09V001767		A	SN-117	Tin-117	ug/g	104	<2.20E-04	<0.0394	n/a	n/a	n/a	n/a	0.0394	n/a	U
S09V001767		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	2.65E-03	n/a	n/a	n/a	n/a	7.16E-04	n/a	B
S09V001768		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.02E-07	<1.62E-07	n/a	n/a	n/a	n/a	1.62E-07	n/a	U
S09V001768		E	14596-10-2	Americium-241	uCi/g	100	<5.04E-07	<4.05E-07	n/a	n/a	n/a	n/a	4.05E-07	n/a	U
S09V001768		E	15510-73-3	Curium-242	uCi/g	n/a	<2.02E-07	<1.62E-07	n/a	n/a	n/a	n/a	1.62E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J6
Sample Depth: 195-197

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001768		E	PU-239/240	Plutonium-239/240	uCi/g	96.4	<3.44E-07	<2.69E-07	n/a	n/a	n/a	n/a	2.69E-07	n/a	U
S09V001768		E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.44E-07	<2.69E-07	n/a	n/a	n/a	n/a	2.69E-07	n/a	U
S10V000028		WV	3812-32-6	Carbonate ion	MEQG	n/a	<4.80E-06	<4.70E-06	n/a	n/a	n/a	n/a	4.70E-06	n/a	
S10V000028		WV	71-52-3	Bicarbonate	MEQG	n/a	<4.80E-06	1.00E-03	n/a	n/a	n/a	n/a	4.70E-06	n/a	
S10V000028		WV	14797-55-8	Nitrate	ug/g	101	<0.0208	8.08	n/a	n/a	n/a	n/a	0.0610	n/a	
S10V000028		WV	14133-76-7	Technetium-99	ug/g	118	<4.00E-06	<3.91E-06	n/a	n/a	n/a	n/a	3.91E-06	n/a	U
S10V000029		E	SR-89/90	Strontium-89/90	uCi/g	101	<5.73E-07	<1.88E-07	n/a	n/a	n/a	n/a	1.88E-07	n/a	U
S10V000030		E	13981-37-8	Nickel-63	uCi/g	98.2	<5.29E-06	<5.56E-06	n/a	n/a	n/a	n/a	5.56E-06	n/a	U
S10V000030		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.53E-06	<1.30E-06	n/a	n/a	n/a	n/a	1.30E-06	n/a	U
S10V001152		A	7440-36-0	Antimony	ug/g	109	<4.40E-03	<0.210	n/a	n/a	n/a	n/a	0.210	n/a	U
S10V001163		W	10028-17-8	Tritium	uCi/g	91.5	<2.48E-06	<3.33E-06	n/a	n/a	n/a	n/a	3.33E-06	n/a	U
S10V001198		A	7429-90-5	Aluminum	ug/g	89.4	<0.0300	5.04E+03	n/a	n/a	n/a	n/a	5.94	n/a	
S10V001198		A	7440-39-3	Barium	ug/g	90.1	<3.00E-03	54.0	n/a	n/a	n/a	n/a	0.594	n/a	
S10V001198		A	7440-41-7	Beryllium	ug/g	96.1	<1.00E-03	<0.198	n/a	n/a	n/a	n/a	0.198	n/a	U
S10V001198		A	7440-69-9	Bismuth	ug/g	86.0	<0.100	25.3	n/a	n/a	n/a	n/a	19.8	n/a	B
S10V001198		A	7440-70-2	Calcium	ug/g	82.6	0.0830	6.57E+03	n/a	n/a	n/a	n/a	9.89	n/a	
S10V001198		A	7440-45-1	Cerium	ug/g	91.8	<0.0300	18.6	n/a	n/a	n/a	n/a	5.94	n/a	B
S10V001198		A	7440-48-4	Cobalt	ug/g	85.0	<0.0100	6.86	n/a	n/a	n/a	n/a	1.98	n/a	B
S10V001198		A	7440-47-3	Chromium	ug/g	83.9	<5.00E-03	15.2	n/a	n/a	n/a	n/a	0.989	n/a	
S10V001198		A	7440-50-8	Copper	ug/g	96.3	<5.00E-03	14.6	n/a	n/a	n/a	n/a	0.989	n/a	
S10V001198		A	7439-89-6	Iron	ug/g	85.8	0.0392	1.77E+04	n/a	n/a	n/a	n/a	0.989	n/a	
S10V001198		A	7440-09-7	Potassium	ug/g	84.9	<0.500	744	n/a	n/a	n/a	n/a	98.9	n/a	B
S10V001198		A	7439-91-0	Lanthanum	ug/g	90.4	<3.00E-03	8.35	n/a	n/a	n/a	n/a	0.594	n/a	
S10V001198		A	7439-93-2	Lithium	ug/g	104	<3.00E-03	6.82	n/a	n/a	n/a	n/a	0.594	n/a	
S10V001198		A	7439-95-4	Magnesium	ug/g	87.0	<0.0500	3.86E+03	n/a	n/a	n/a	n/a	9.89	n/a	
S10V001198		A	7439-96-5	Manganese	ug/g	83.8	<3.00E-03	226	n/a	n/a	n/a	n/a	0.594	n/a	
S10V001198		A	7439-98-7	Molybdenum	ug/g	87.1	<0.0200	<3.96	n/a	n/a	n/a	n/a	3.96	n/a	U
S10V001198		A	7440-23-5	Sodium	ug/g	103	<0.100	249	n/a	n/a	n/a	n/a	19.8	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J6
Sample Depth: 195-197

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001198		A	7440-02-0	Nickel	ug/g	85.2	<0.0200	13.4	n/a	n/a	n/a	n/a	3.96	n/a	
S10V001198		A	7723-14-0	Phosphorus	ug/g	88.6	<0.0500	659	n/a	n/a	n/a	n/a	9.89	n/a	
S10V001198		A	7704-34-9	Sulfur	ug/g	88.6	<0.100	79.8	n/a	n/a	n/a	n/a	19.8	n/a	B
S10V001198		A	7440-21-3	Silicon	ug/g	81.1	<0.0300	79.3	n/a	n/a	n/a	n/a	5.94	n/a	N
S10V001198		A	7440-24-6	Strontium	ug/g	89.7	<3.00E-03	24.1	n/a	n/a	n/a	n/a	0.594	n/a	
S10V001198		A	7440-32-6	Titanium	ug/g	86.2	<5.00E-03	1.23E+03	n/a	n/a	n/a	n/a	0.989	n/a	
S10V001198		A	7440-62-2	Vanadium	ug/g	87.1	<5.00E-03	43.3	n/a	n/a	n/a	n/a	0.989	n/a	
S10V001198		A	7440-65-5	Yttrium	ug/g	90.1	<2.00E-03	8.19	n/a	n/a	n/a	n/a	0.396	n/a	
S10V001198		A	7440-66-6	Zinc	ug/g	88.6	<5.00E-03	30.8	n/a	n/a	n/a	n/a	0.989	n/a	
S10V001198		A	7440-67-7	Zirconium	ug/g	86.0	<5.00E-03	11.5	n/a	n/a	n/a	n/a	0.989	n/a	N
S10V001198		A	7440-38-2	Arsenic	ug/g	118	<8.40E-03	1.70	n/a	n/a	n/a	n/a	0.0831	n/a	
S10V001198		A	7782-49-2	Selenium	ug/g	115	<0.0122	<0.121	n/a	n/a	n/a	n/a	0.121	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J6B
Sample Depth: 195-197

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001758			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.17	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J8
Sample Depth: 195-197

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001754			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0943	n/a	n/a	n/a	n/a	0.0943	n/a	U
S09V001754			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
S09V001754			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.217	n/a	n/a	n/a	n/a	0.217	n/a	U
S09V001754			75-35-4	1,1-Dichloroethene	ug/kg	104	<0.423	<0.434	n/a	n/a	n/a	88.6	0.434	n/a	U
S09V001754			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0551	n/a	n/a	n/a	n/a	0.0551	n/a	U
S09V001754			71-36-3	1-Butanol	ug/kg	107	<10.3	<10.5	n/a	n/a	n/a	80.9	10.5	n/a	U
S09V001754			108-10-1	Hexone	ug/kg	116	<1.71	<1.75	n/a	n/a	n/a	103	1.75	n/a	U
S09V001754			67-64-1	Acetone	ug/kg	114	<2.20	<2.25	n/a	n/a	n/a	93.0	2.25	n/a	U
S09V001754			71-43-2	Benzene	ug/kg	108	<0.147	<0.151	n/a	n/a	n/a	92.0	0.151	n/a	U
S09V001754			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U
S09V001754			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0957	n/a	n/a	n/a	n/a	0.0957	n/a	U
S09V001754			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
S09V001754			108-90-7	Chlorobenzene	ug/kg	104	<0.0864	<0.0885	n/a	n/a	n/a	95.7	0.0885	n/a	U
S09V001754			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
S09V001754			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
S09V001754			78-93-3	2-Butanone	ug/kg	114	<1.96	<2.01	n/a	n/a	n/a	91.7	2.01	n/a	U
S09V001754			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0656	n/a	n/a	n/a	n/a	0.0656	n/a	U
S09V001754			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
S09V001754			108-88-3	Toluene	ug/kg	103	<0.0802	0.215	n/a	n/a	n/a	98.4	0.0822	n/a	J
S09V001754			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001754			79-01-6	Trichloroethene	ug/kg	106	<0.121	<0.124	n/a	n/a	n/a	91.2	0.124	n/a	U
S09V001754			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S09V001754			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
S09V001754			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
S09V001754			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
S09V001754			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.602	n/a	n/a	n/a	n/a	0.602	n/a	U
S09V001754			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.602	n/a	n/a	n/a	n/a	0.602	n/a	U
S09V001754			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

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238J8
Sample Depth: 195-197

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001754			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0963	n/a	n/a	n/a	n/a	0.0963	n/a	U
S09V001754			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0943	n/a	n/a	n/a	n/a	0.0943	n/a	U
S09V001754			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.172	n/a	n/a	n/a	n/a	0.172	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238K3
Sample Depth: 216-218

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000080			%WATERA	%WATER-APD	%	n/a	n/a	5.020	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V000080			57-12-5	Cyanide	ug/g	96.9	<0.0370	<3.31	<3.19	n/a	n/a	91.1	3.31	n/a	U
S10V000080			7439-97-6	Mercury	ug/g	99.0	<1.00E-04	<9.26E-03	n/a	n/a	n/a	n/a	9.26E-03	n/a	U
S10V000080			PH	pH	unitless	n/a	n/a	8.58	8.60	8.59	0.233	n/a	0.0100	n/a	
S10V000080			12597-04-5	Sulfide	ug/g	83.2	<0.180	7.56	n/a	n/a	n/a	n/a	7.23	n/a	B
S10V000081			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.28E-05	n/a	n/a	n/a	n/a	5.21E-06	27.95	
S10V000081			10198-40-0	Cobalt-60	uCi/g	98.6	<2.21E-07	<2.61E-07	n/a	n/a	n/a	n/a	2.61E-07	n/a	U
S10V000081			14234-35-6	Antimony-125	uCi/g	n/a	<5.73E-07	<6.75E-07	n/a	n/a	n/a	n/a	6.75E-07	n/a	U
S10V000081			10045-97-3	Cesium-137	uCi/g	102	<2.87E-07	<3.41E-07	n/a	n/a	n/a	n/a	3.41E-07	n/a	U
S10V000081			14683-23-9	Europium-152	uCi/g	n/a	<1.08E-06	<1.26E-06	n/a	n/a	n/a	n/a	1.26E-06	n/a	U
S10V000081			15585-10-1	Europium-154	uCi/g	n/a	<7.65E-07	<8.06E-07	n/a	n/a	n/a	n/a	8.06E-07	n/a	U
S10V000081			14391-16-3	Europium-155	uCi/g	n/a	<3.66E-07	<4.31E-07	n/a	n/a	n/a	n/a	4.31E-07	n/a	U
S10V000081			15092-94-1	Lead-212	uCi/g	n/a	n/a	5.03E-07	n/a	n/a	n/a	n/a	3.49E-07	27.66	
S10V000081			14274-82-9	Thorium-228	uCi/g	n/a	<6.41E-06	<8.37E-06	n/a	n/a	n/a	n/a	8.37E-06	n/a	U
S10V000081			15065-10-8	Thorium-234	uCi/g	n/a	<2.05E-06	<2.77E-06	n/a	n/a	n/a	n/a	2.77E-06	n/a	U
S10V000081			15046-84-1	Iodine-129	uCi/g	94.7	<2.26E-07	<2.18E-07	n/a	n/a	n/a	n/a	2.18E-07	n/a	U
S10V000085		WV	3812-32-6	Carbonate ion	MEQG	n/a	<4.80E-06	<4.90E-06	<4.80E-06	n/a	n/a	n/a	4.90E-06	n/a	
S10V000085		WV	71-52-3	Bicarbonate	MEQG	n/a	<4.80E-06	9.00E-04	8.00E-04	8.50E-04	11.8	n/a	4.90E-06	n/a	
S10V000085		WV	14797-55-8	Nitrate	ug/g	98.4	<0.0208	7.85	10.2	9.03	26.2	101	0.0212	n/a	
S10V000085		WV	14133-76-7	Technetium-99	ug/g	110	<3.03E-05	4.53E-06	6.05E-06	5.29E-06	28.9	105	3.05E-06	n/a	
S10V000086		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	67.1	<77.4	<76.0	n/a	n/a	n/a	62.3	76.0	n/a	U
S10V000086		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<98.8	n/a	n/a	n/a	n/a	98.8	n/a	U
S10V000086		O	121-14-2	2,4-Dinitrotoluene	ug/kg	81.6	<38.1	<37.4	n/a	n/a	n/a	83.3	37.4	n/a	U
S10V000086		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S10V000086		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S10V000086		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.4	n/a	n/a	n/a	n/a	56.4	n/a	U
S10V000086		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.7	n/a	n/a	n/a	n/a	52.7	n/a	U
S10V000086		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

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238K3
Sample Depth: 216-218

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000086		O	83-32-9	Acenaphthene	ug/kg	77.2	<17.6	<17.3	n/a	n/a	n/a	77.3	17.3	n/a	U
S10V000086		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S10V000086		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.0	n/a	n/a	n/a	n/a	48.0	n/a	U
S10V000086		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
S10V000086		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<579	n/a	n/a	n/a	n/a	579	n/a	U
S10V000086		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.4	n/a	n/a	n/a	n/a	38.4	n/a	U
S10V000086		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S10V000086		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	71.7	<43.2	<42.4	n/a	n/a	n/a	80.2	42.4	n/a	U
S10V000086		O	95-57-8	2-Chlorophenol	ug/kg	67.7	<66.5	<65.3	n/a	n/a	n/a	64.9	65.3	n/a	U
S10V000086		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<79.9	n/a	n/a	n/a	n/a	79.9	n/a	U
S10V000086		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
S10V000086		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<552	n/a	n/a	n/a	n/a	552	n/a	U
S10V000086		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.8	n/a	n/a	n/a	n/a	46.8	n/a	U
S10V000086		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	63.7	<58.1	<57.0	n/a	n/a	n/a	56.3	57.0	n/a	U
S10V000086		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
S10V000086		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.4	n/a	n/a	n/a	n/a	68.4	n/a	U
S10V000086		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S10V000086		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
S10V000086		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.4	n/a	n/a	n/a	n/a	61.4	n/a	U
S10V000086		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.4	n/a	n/a	n/a	n/a	63.4	n/a	U
S10V000086		O	129-00-0	Pyrene	ug/kg	91.1	<62.9	<61.7	n/a	n/a	n/a	86.6	61.7	n/a	U
S10V000086		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<63.8	n/a	n/a	n/a	n/a	63.8	n/a	U
S10V000086		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V000086		O	128-37-0	BHT	ug/kg	n/a	<236	<231	n/a	n/a	n/a	n/a	231	n/a	U
S10V000086		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<179	n/a	n/a	n/a	n/a	179	n/a	U
S10V000086		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V000086		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<549	n/a	n/a	n/a	n/a	549	n/a	U
S10V000086		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<188	n/a	n/a	n/a	n/a	188	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238K3
Sample Depth: 216-218

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000086		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<452	n/a	n/a	n/a	n/a	452	n/a	U
S10V000087		W	14762-75-5	Carbon-14	uCi/g	93.0	2.97E-06	<4.80E-06	n/a	n/a	n/a	n/a	4.80E-06	n/a	U
S10V000087		W	16984-48-8	Fluoride	ug/g	103	<1.61E-03	0.812	n/a	n/a	n/a	n/a	0.0159	n/a	
S10V000087		W	GLYCOLAT	Glycolate	ug/g	101	<9.37E-03	<0.0924	n/a	n/a	n/a	n/a	0.0924	n/a	U
S10V000087		W	71-50-1	Acetate	ug/g	98.8	<6.04E-03	0.137	n/a	n/a	n/a	n/a	0.0595	n/a	B
S10V000087		W	FORMATE	Formate	ug/g	102	<4.67E-03	0.419	n/a	n/a	n/a	n/a	0.0460	n/a	B
S10V000087		W	16887-00-6	Chloride	ug/g	100	<9.98E-03	2.86	n/a	n/a	n/a	n/a	0.0984	n/a	
S10V000087		W	14797-65-0	Nitrite	ug/g	100	0.0449	0.516	n/a	n/a	n/a	n/a	0.189	n/a	CB
S10V000087		W	14808-79-8	Sulfate	ug/g	102	<0.0187	31.6	n/a	n/a	n/a	n/a	0.184	n/a	
S10V000087		W	338-70-5	Oxalate	ug/g	101	<0.0231	1.23	n/a	n/a	n/a	n/a	0.228	n/a	B
S10V000087		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.572	n/a	n/a	n/a	n/a	0.572	n/a	U
S10V000087		W	14797-55-8	Nitrate	ug/g	101	<0.0208	5.15	n/a	n/a	n/a	n/a	0.205	n/a	
S10V000087		W	14265-44-2	Phosphate	ug/g	101	<0.0167	0.213	n/a	n/a	n/a	n/a	0.165	n/a	B
S10V000088		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.30E+03	n/a	n/a	n/a	n/a	3.09	n/a	
S10V000088		A	7440-39-3	Barium	ug/g	96.6	<3.00E-03	64.6	n/a	n/a	n/a	n/a	0.309	n/a	
S10V000088		A	7440-41-7	Beryllium	ug/g	100	<1.00E-03	0.181	n/a	n/a	n/a	n/a	0.103	n/a	B
S10V000088		A	7440-70-2	Calcium	ug/g	91.3	0.586	4.80E+03	n/a	n/a	n/a	n/a	5.15	n/a	
S10V000088		A	7440-45-1	Cerium	ug/g	98.1	<0.0300	14.9	n/a	n/a	n/a	n/a	3.09	n/a	B
S10V000088		A	7440-48-4	Cobalt	ug/g	93.9	<0.0100	5.35	n/a	n/a	n/a	n/a	1.03	n/a	B
S10V000088		A	7440-47-3	Chromium	ug/g	93.9	<5.00E-03	22.1	n/a	n/a	n/a	n/a	0.515	n/a	
S10V000088		A	7440-50-8	Copper	ug/g	95.3	<5.00E-03	10.9	n/a	n/a	n/a	n/a	0.515	n/a	
S10V000088		A	7439-89-6	Iron	ug/g	93.8	0.0228	1.55E+04	n/a	n/a	n/a	n/a	0.515	n/a	
S10V000088		A	7440-09-7	Potassium	ug/g	102	<0.500	1.30E+03	n/a	n/a	n/a	n/a	51.5	n/a	
S10V000088		A	7439-91-0	Lanthanum	ug/g	96.3	<3.00E-03	6.57	n/a	n/a	n/a	n/a	0.309	n/a	
S10V000088		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	7.70	n/a	n/a	n/a	n/a	0.309	n/a	
S10V000088		A	7439-95-4	Magnesium	ug/g	92.3	<0.0500	4.05E+03	n/a	n/a	n/a	n/a	5.15	n/a	
S10V000088		A	7439-96-5	Manganese	ug/g	93.3	<3.00E-03	261	n/a	n/a	n/a	n/a	0.309	n/a	
S10V000088		A	7439-98-7	Molybdenum	ug/g	93.9	<0.0200	2.11	n/a	n/a	n/a	n/a	2.06	n/a	B

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238K3
Sample Depth: 216-218

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000088		A	7440-23-5	Sodium	ug/g	98.1	<0.100	217	n/a	n/a	n/a	n/a	10.3	n/a	N
S10V000088		A	7440-02-0	Nickel	ug/g	92.8	<0.0200	11.3	n/a	n/a	n/a	n/a	2.06	n/a	
S10V000088		A	7723-14-0	Phosphorus	ug/g	93.9	<0.0500	456	n/a	n/a	n/a	n/a	5.15	n/a	
S10V000088		A	7439-92-1	Lead	ug/g	95.2	<0.0500	9.72	n/a	n/a	n/a	n/a	5.15	n/a	B
S10V000088		A	7704-34-9	Sulfur	ug/g	94.7	<0.100	65.5	n/a	n/a	n/a	n/a	10.3	n/a	B
S10V000088		A	7440-21-3	Silicon	ug/g	85.0	<0.0300	111	n/a	n/a	n/a	n/a	3.09	n/a	N
S10V000088		A	7440-24-6	Strontium	ug/g	96.3	<3.00E-03	29.4	n/a	n/a	n/a	n/a	0.309	n/a	
S10V000088		A	7440-32-6	Titanium	ug/g	93.9	<5.00E-03	865	n/a	n/a	n/a	n/a	0.515	n/a	
S10V000088		A	7440-62-2	Vanadium	ug/g	95.9	<5.00E-03	30.9	n/a	n/a	n/a	n/a	0.515	n/a	
S10V000088		A	7440-65-5	Yttrium	ug/g	91.7	<2.00E-03	5.46	n/a	n/a	n/a	n/a	0.206	n/a	
S10V000088		A	7440-66-6	Zinc	ug/g	92.7	9.32E-03	29.3	n/a	n/a	n/a	n/a	0.515	n/a	
S10V000088		A	7440-67-7	Zirconium	ug/g	92.8	<5.00E-03	6.39	n/a	n/a	n/a	n/a	0.515	n/a	CN
S10V000088		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
S10V000088		A	TH-232	Thorium-232	ug/g	106	<6.80E-05	2.52	n/a	n/a	n/a	n/a	7.00E-04	n/a	
S10V000088		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	8.96E-05	n/a	n/a	n/a	n/a	4.12E-05	n/a	
S10V000088		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.06E-05	n/a	n/a	n/a	n/a	2.06E-05	n/a	U
S10V000088		A	15117-96-1	Uranium-235	ug/g	96.7	<4.40E-06	2.83E-03	n/a	n/a	n/a	n/a	4.53E-05	n/a	
S10V000088		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
S10V000088		A	13994-20-2	Neptunium-237	ug/g	103	<2.12E-05	<2.18E-04	n/a	n/a	n/a	n/a	2.18E-04	n/a	U
S10V000088		A	U-238	Uranium-238	ug/g	105	<2.20E-04	0.437	n/a	n/a	n/a	n/a	2.27E-03	n/a	
S10V000088		A	7440-22-4	Silver	ug/g	97.1	<8.00E-03	0.0827	n/a	n/a	n/a	n/a	0.0824	n/a	B
S10V000088		A	7440-38-2	Arsenic	ug/g	112	<0.0420	1.88	n/a	n/a	n/a	n/a	0.432	n/a	
S10V000088		A	7440-43-9	Cadmium	ug/g	98.1	<3.00E-03	0.0679	n/a	n/a	n/a	n/a	0.0309	n/a	
S10V000088		A	7782-49-2	Selenium	ug/g	107	<0.0610	<0.628	n/a	n/a	n/a	n/a	0.628	n/a	U
S10V000088		A	7440-28-0	Thallium	ug/g	92.9	2.23E-03	0.0725	n/a	n/a	n/a	n/a	6.18E-03	n/a	C
S10V000089		S	14798-03-9	Ammonium	ug/g	101	<0.120	1.47	1.05	1.26	33.5	93.5	0.470	n/a	B
S10V000090		A	14133-76-7	Technetium-99	ug/g	104	<3.00E-05	<3.09E-04	n/a	n/a	n/a	n/a	3.09E-04	n/a	U
S10V000090		A	SN-117	Tin-117	ug/g	104	<1.10E-05	<0.0113	n/a	n/a	n/a	n/a	0.0113	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238K3
Sample Depth: 216-218

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000090		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-07	<2.06E-04	n/a	n/a	n/a	n/a	2.06E-04	n/a	U
S10V000091		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.02E-07	<2.23E-07	n/a	n/a	n/a	n/a	2.23E-07	n/a	U
S10V000091		E	14596-10-2	Americium-241	uCi/g	100	<5.04E-07	<5.57E-07	n/a	n/a	n/a	n/a	5.57E-07	n/a	U
S10V000091		E	15510-73-3	Curium-242	uCi/g	n/a	<2.02E-07	<2.23E-07	n/a	n/a	n/a	n/a	2.23E-07	n/a	U
S10V000091		E	PU-239/240	Plutonium-239/240	uCi/g	96.4	<3.44E-07	<2.88E-07	n/a	n/a	n/a	n/a	2.88E-07	n/a	U
S10V000091		E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.44E-07	<2.88E-07	n/a	n/a	n/a	n/a	2.88E-07	n/a	U
S10V000092		E	SR-89/90	Strontium-89/90	uCi/g	101	<5.73E-07	<1.90E-07	n/a	n/a	n/a	n/a	1.90E-07	n/a	U
S10V000094		E	13981-37-8	Nickel-63	uCi/g	98.2	<5.29E-06	<5.57E-06	n/a	n/a	n/a	n/a	5.57E-06	n/a	U
S10V000094		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.53E-06	<1.23E-06	n/a	n/a	n/a	n/a	1.23E-06	n/a	U
S10V001153		A	7440-36-0	Antimony	ug/g	96.3	<4.40E-03	<0.214	n/a	n/a	n/a	n/a	0.214	n/a	U
S10V001164		W	10028-17-8	Tritium	uCi/g	91.5	<2.48E-06	<4.80E-06	n/a	n/a	n/a	n/a	4.80E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B238K3B
Sample Depth: 216-218

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000078			BULKDENSI	Bulk Density	g/mL	n/a	n/a	2.15	n/a	n/a	n/a	n/a	n/a	n/a	

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
J - Estimated
U - Less Than Detection Limit
N - MS/MSD Outside Range
B - Estimated
B - Blank Contamination
C - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B23K86
Sample Depth: 216-218

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000074			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.116	n/a	n/a	n/a	n/a	0.116	n/a	U
S10V000074			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.208	n/a	n/a	n/a	n/a	0.208	n/a	U
S10V000074			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.266	n/a	n/a	n/a	n/a	0.266	n/a	U
S10V000074			75-35-4	1,1-Dichloroethene	ug/kg	104	<0.423	<0.532	n/a	n/a	n/a	n/a	0.532	n/a	U
S10V000074			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0676	n/a	n/a	n/a	n/a	0.0676	n/a	U
S10V000074			71-36-3	1-Butanol	ug/kg	107	<10.3	<12.9	n/a	n/a	n/a	n/a	12.9	n/a	U
S10V000074			591-78-6	2-Hexanone	ug/kg	117	n/a	4.24	n/a	n/a	n/a	n/a	2.97	n/a	BJ
S10V000074			108-10-1	Hexone	ug/kg	116	<1.71	<2.15	n/a	n/a	n/a	n/a	2.15	n/a	U
S10V000074			67-64-1	Acetone	ug/kg	114	<2.20	<2.76	n/a	n/a	n/a	n/a	2.76	n/a	U
S10V000074			71-43-2	Benzene	ug/kg	108	<0.147	<0.185	n/a	n/a	n/a	n/a	0.185	n/a	U
S10V000074			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.202	n/a	n/a	n/a	n/a	0.202	n/a	U
S10V000074			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S10V000074			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S10V000074			108-90-7	Chlorobenzene	ug/kg	104	<0.0864	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S10V000074			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.135	n/a	n/a	n/a	n/a	0.135	n/a	U
S10V000074			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.255	n/a	n/a	n/a	n/a	0.255	n/a	U
S10V000074			78-93-3	2-Butanone	ug/kg	114	<1.96	3.18	n/a	n/a	n/a	n/a	2.47	n/a	J
S10V000074			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0804	n/a	n/a	n/a	n/a	0.0804	n/a	U
S10V000074			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.138	n/a	n/a	n/a	n/a	0.138	n/a	U
S10V000074			108-88-3	Toluene	ug/kg	103	<0.0802	0.278	n/a	n/a	n/a	n/a	0.101	n/a	J
S10V000074			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.340	n/a	n/a	n/a	n/a	0.340	n/a	U
S10V000074			79-01-6	Trichloroethene	ug/kg	106	<0.121	<0.152	n/a	n/a	n/a	n/a	0.152	n/a	U
S10V000074			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.218	n/a	n/a	n/a	n/a	0.218	n/a	U
S10V000074			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.228	n/a	n/a	n/a	n/a	0.228	n/a	U
S10V000074			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.381	n/a	n/a	n/a	n/a	0.381	n/a	U
S10V000074			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.146	n/a	n/a	n/a	n/a	0.146	n/a	U
S10V000074			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.739	n/a	n/a	n/a	n/a	0.739	n/a	U
S10V000074			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.738	n/a	n/a	n/a	n/a	0.738	n/a	U

NA = Not Analyzed, ND = Not Detected

M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

C Farm WMC 2010-1
Data Summary Report

Sample Group: 20090877
Core Number: C7472
Customer Sample ID: B23K86
Sample Depth: 216-218

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V000074			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S10V000074			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.118	n/a	n/a	n/a	n/a	0.118	n/a	U
S10V000074			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.116	n/a	n/a	n/a	n/a	0.116	n/a	U
S10V000074			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.210	n/a	n/a	n/a	n/a	0.210	n/a	U

NA = Not Analyzed, ND = Not Detected

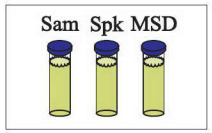
M - RPD Outside Range
U - Less Than Detection Limit
B - Estimated
C - Blank Contamination
J - Estimated
N - MS/MSD Outside Range
B - Blank Contamination

Attachment 2

SAMPLE BREAKDOWN DIAGRAM

Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090875 (Liquid)
Group 20090876 (Offsite Liquid)

Segment No. Equipment Blank
Customer ID: B238D8

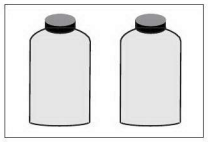


S09V001597
VOA

S09V001598
SVOA

S09V001599
ICP/MS Fission
ICP/MS Actinides
ICP-Metals
Mercury

S09V001600
Iodine-129
Tritium
C-14



S09V001601
GEA
Americium/Curium/Curium
Sr-90 Env
Plutonium
Nickel-63
Selenium-79

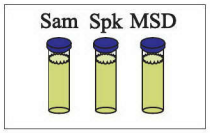
S09V001602
IC - Anions/Org Acids
pH

S09V001603
Sulfide

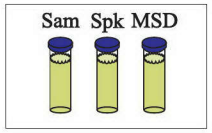
S09V001604
Cyanide

S09V001605
Ammonium

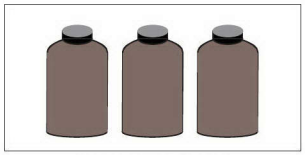
Group 20090876 (Offsite Liquid)



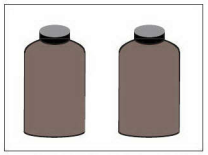
S10V000583
SHIP -OUTSIDE LAB
E-glycol



S09V001606
SHIP -OUTSIDE LAB
TPH Gasoline



S09V001607
SHIP - OUTSIDE LAB
(PCB)



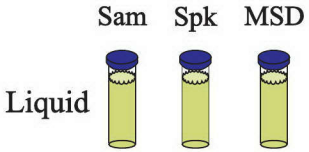
S09V001608
SHIP - OUTSIDE LAB
(Pesticides)

S09V001609
SHIP - OUTSIDE LAB
(TPH Diesel)

S10V000584
SHIP -OUTSIDE LAB
(MBP/DBP)

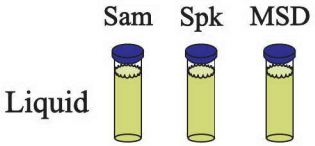
Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090875 (Liquid)

Sample Depth: Trip Blank 1
Customer ID. B238D3



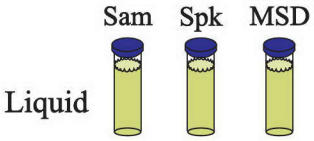
S09V001587
VOA

Sample Depth: Trip Blank 2
Customer ID. B238D4



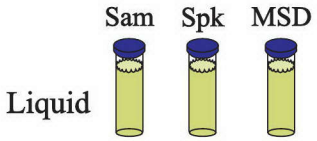
S09V001588
VOA

Sample Depth: Trip Blank 3
Customer ID. B238D5



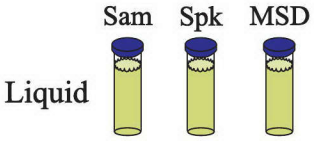
S09V001589
VOA

Sample Depth: Trip Blank 4
Customer ID. B238D6



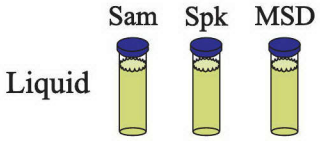
S09V001590
VOA

Sample Depth: Trip Blank 5
Customer ID. B238D7



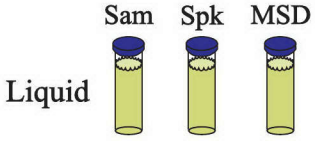
S09V001591
VOA

Sample Depth: Trip Blank 6
Customer ID. B238D9



S10V000072
VOA

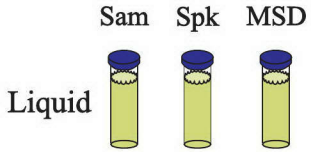
Sample Depth: Trip Blank 7
Customer ID. B238F0



S10V000082
VOA

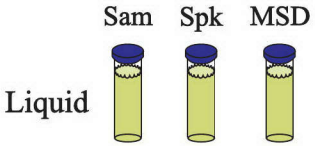
Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090875 (Liquid)
Due: 2/1/2010

Sample Depth: Field Blank 1
Customer ID. B238C8



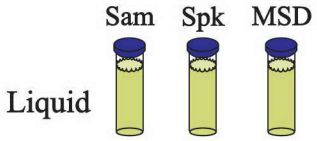
S09V001592
VOA

Sample Depth: Field Blank 2
Customer ID. B238C9



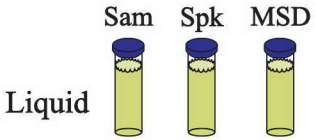
S09V001593
VOA

Sample Depth: Field Blank 3
Customer ID. B238D0



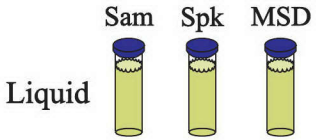
S09V001594
VOA

Sample Depth: Field Blank 4
Customer ID. B238D1



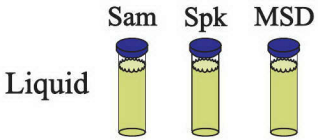
S09V001595
VOA

Sample Depth: Field Blank 5
Customer ID. B238D2



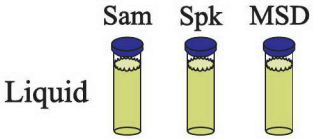
S09V001596
VOA

Sample Depth: Field Blank 6
Customer ID. B238F2



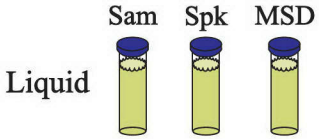
S10V000073
VOA

Sample Depth: Field Blank 7
Customer ID. B238F3



S010V000083
VOA

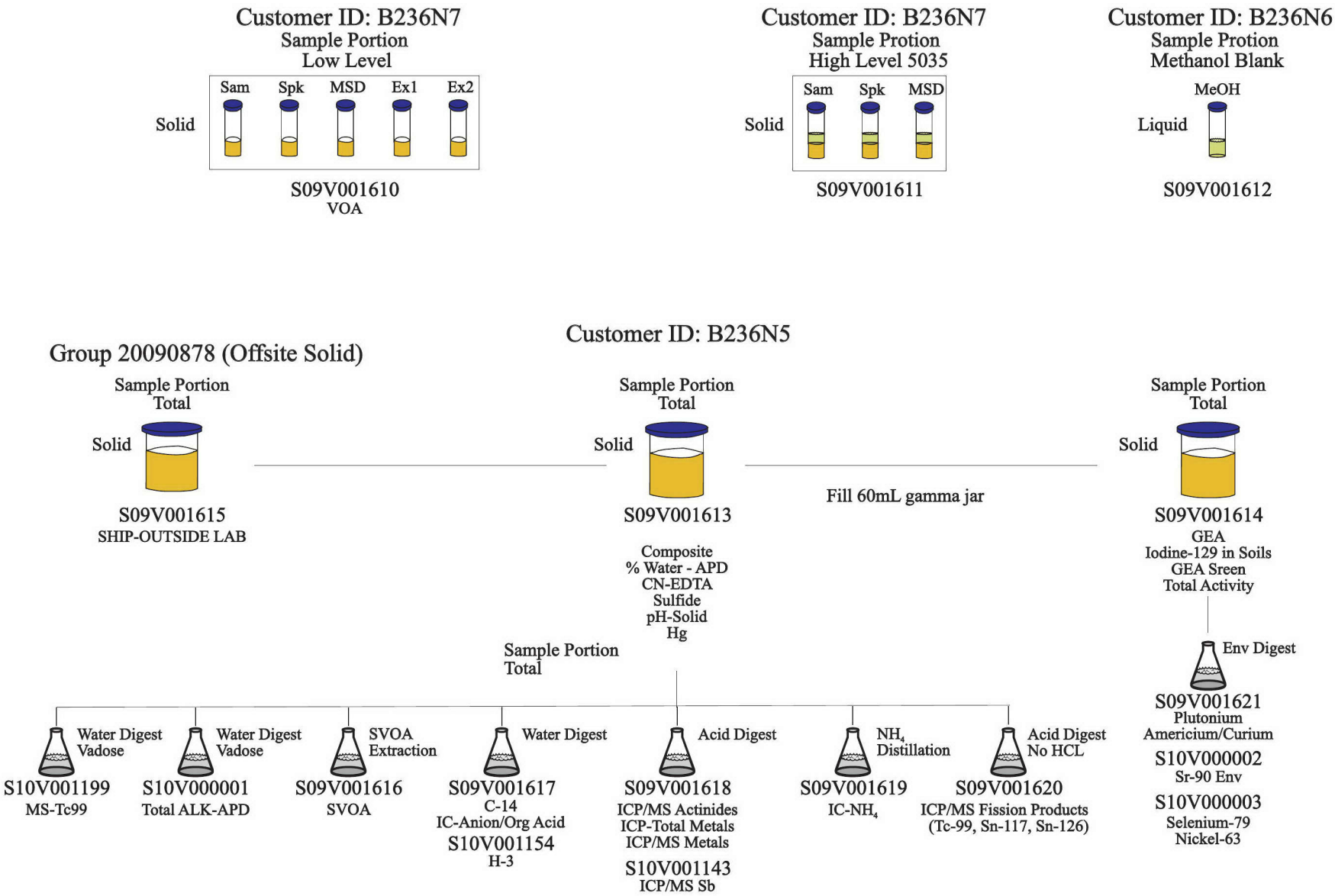
Sample Depth: Field Blank 8
Customer ID. B238F4



S10V000814
VOA

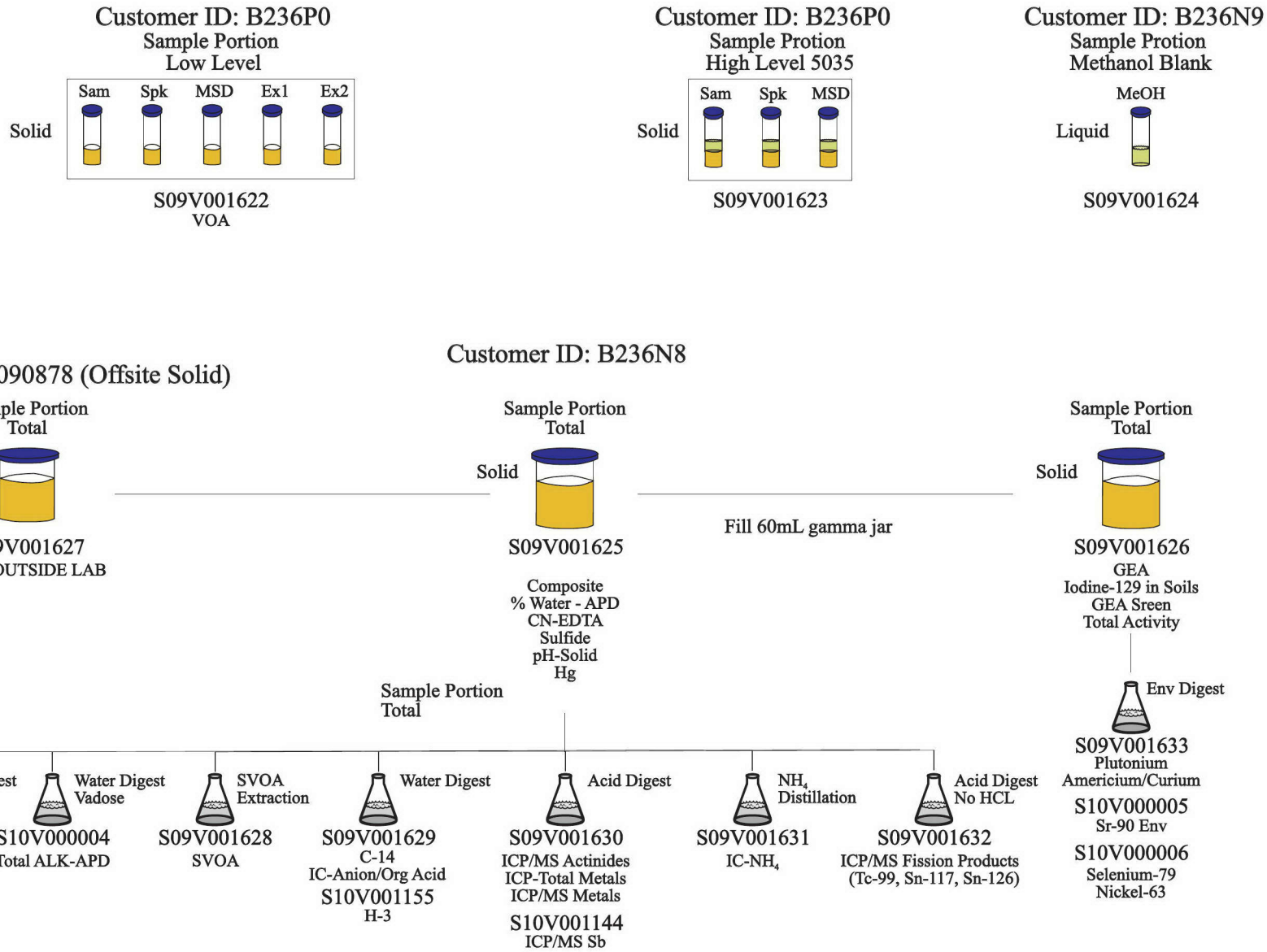
Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090877 (Solid)
Group 20090878 (Offsite Solid)

Sample Depth: Surface
Segment No: Surface



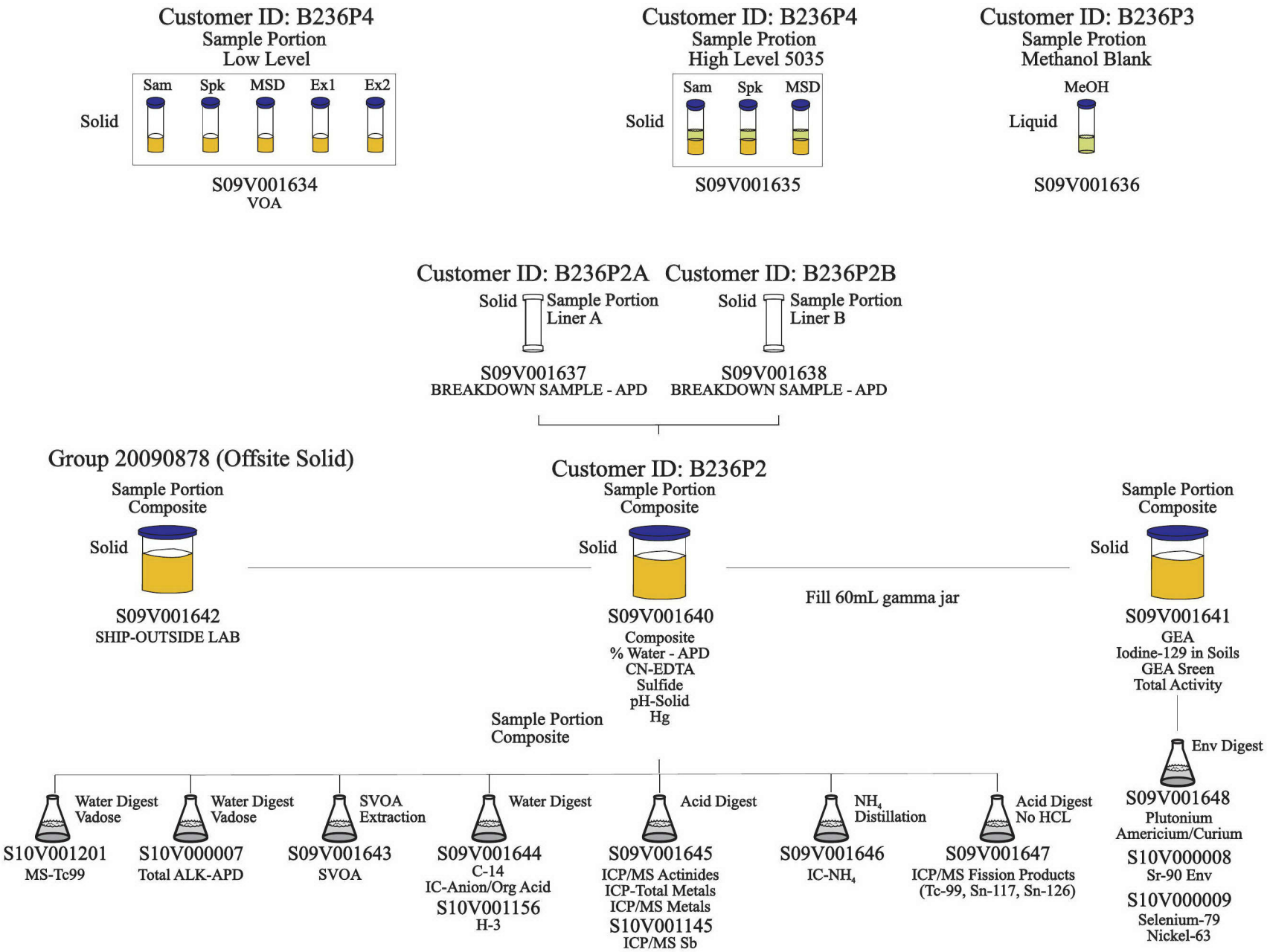
Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090877 (Solid)
Group 20090878 (Offsite Solid)

Sample Depth: Surface Dup
Segment No: Surface Dup

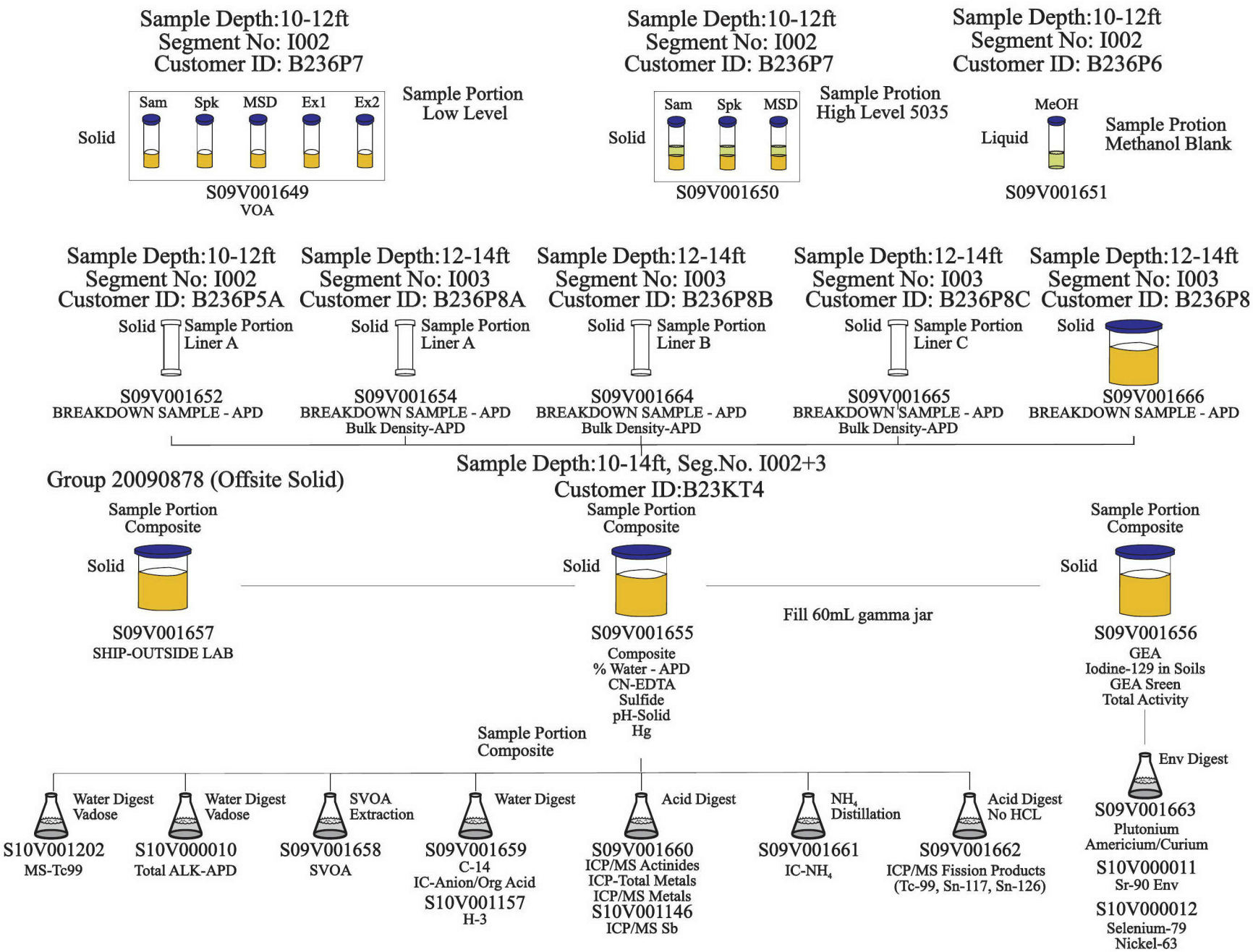


Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090877 (Solid)
Group 20090878 (Offsite Solid)

Sample Depth: 5-7 ft
Segment No: I001

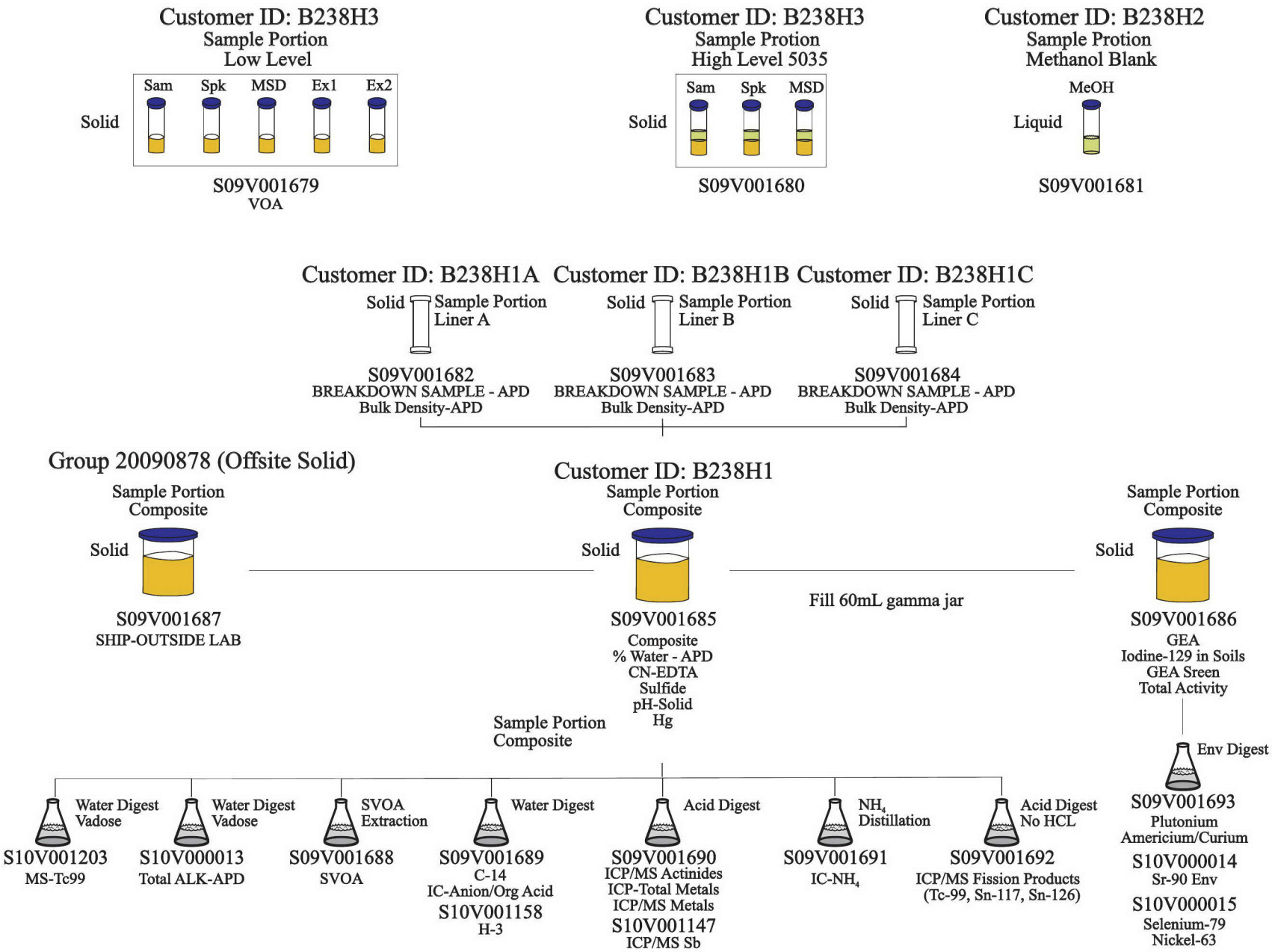


Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090877 (Solid)
Group 20090878 (Offsite Solid)



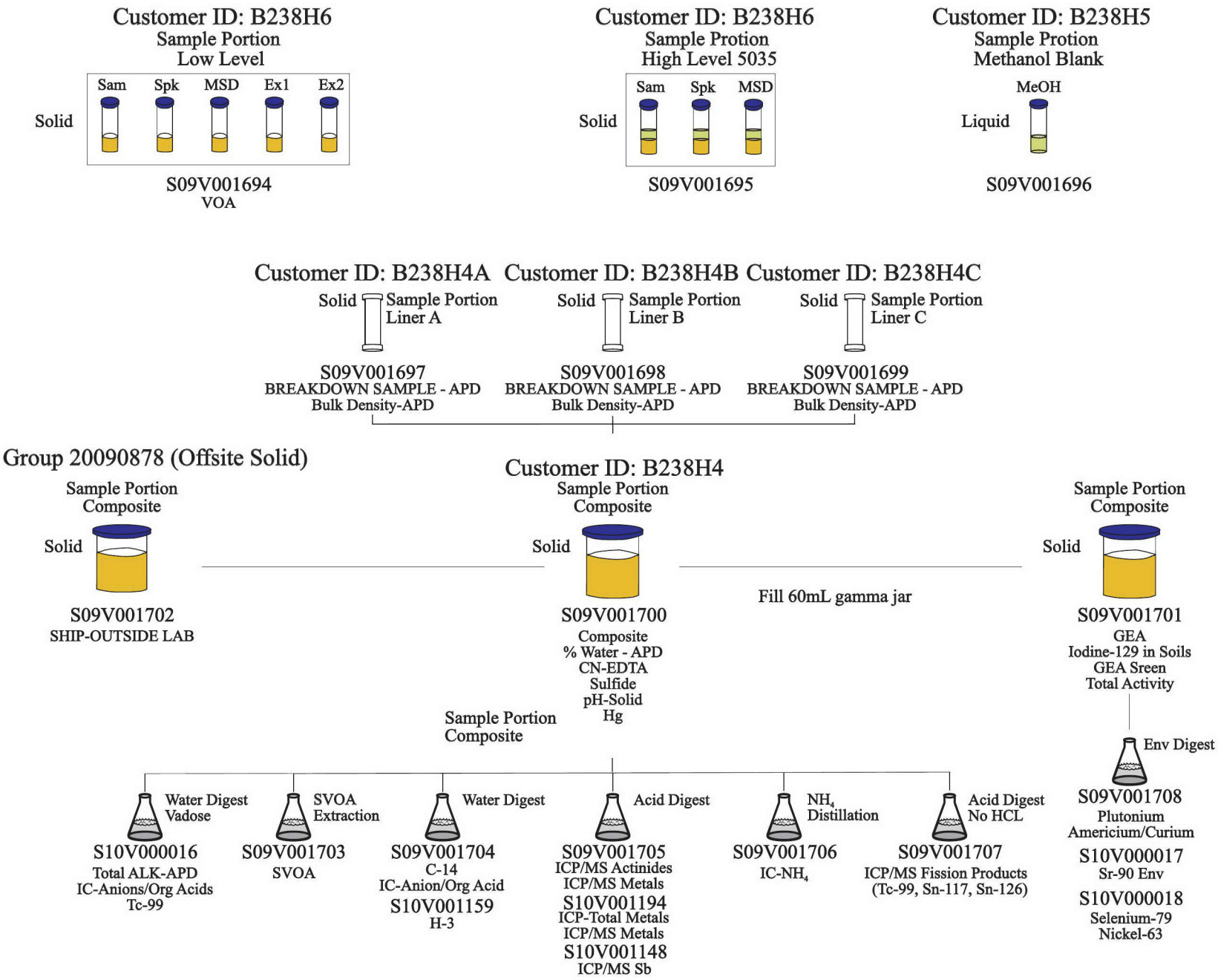
Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090877 (Solid)
Group 20090878 (Offsite Solid)

Sample Depth:14-16 Ft
Segment No: I004



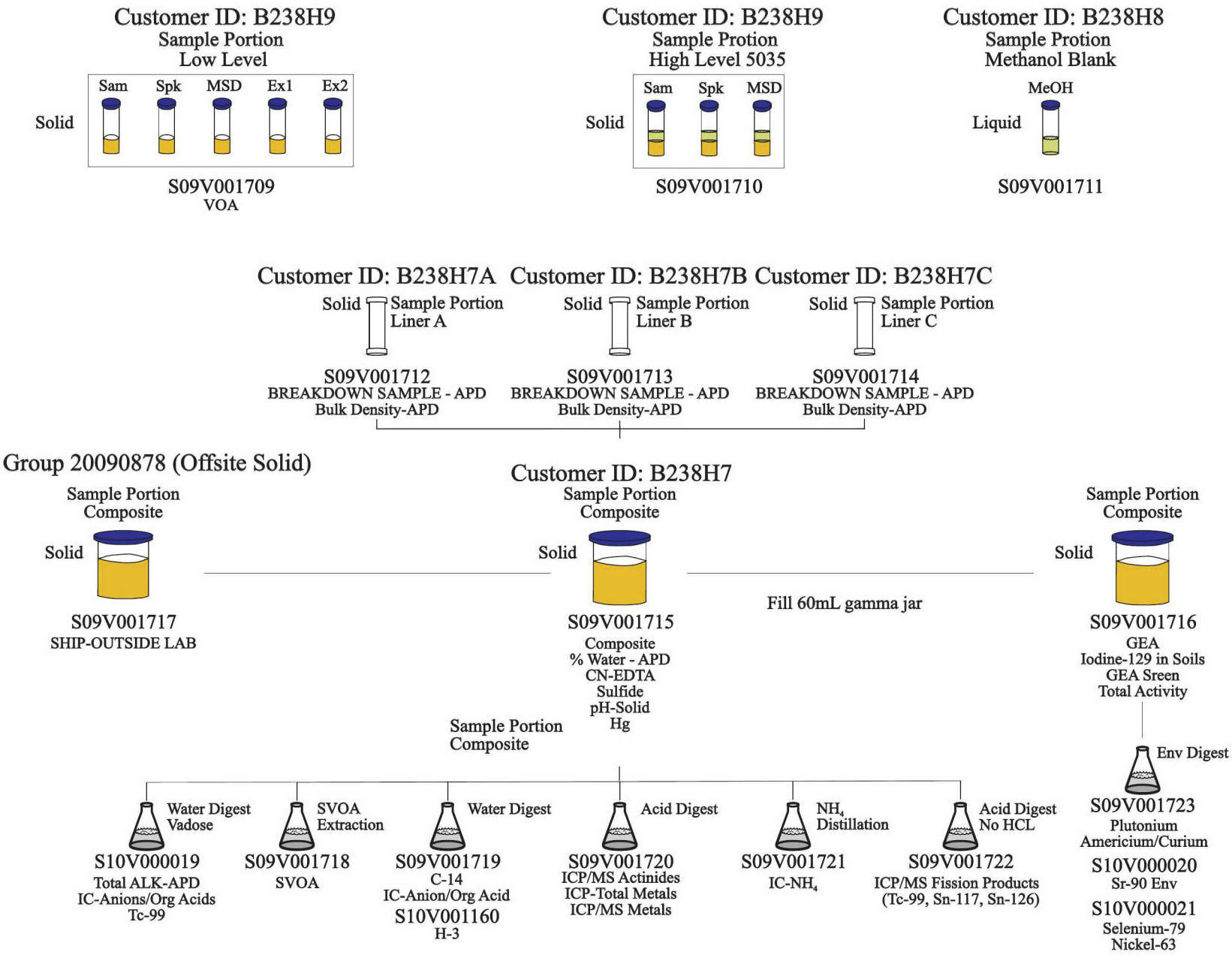
Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090877 (Solid)
Group 20090878 (Offsite Solid)

Sample Depth:108.5-110.5
Segment No: I005



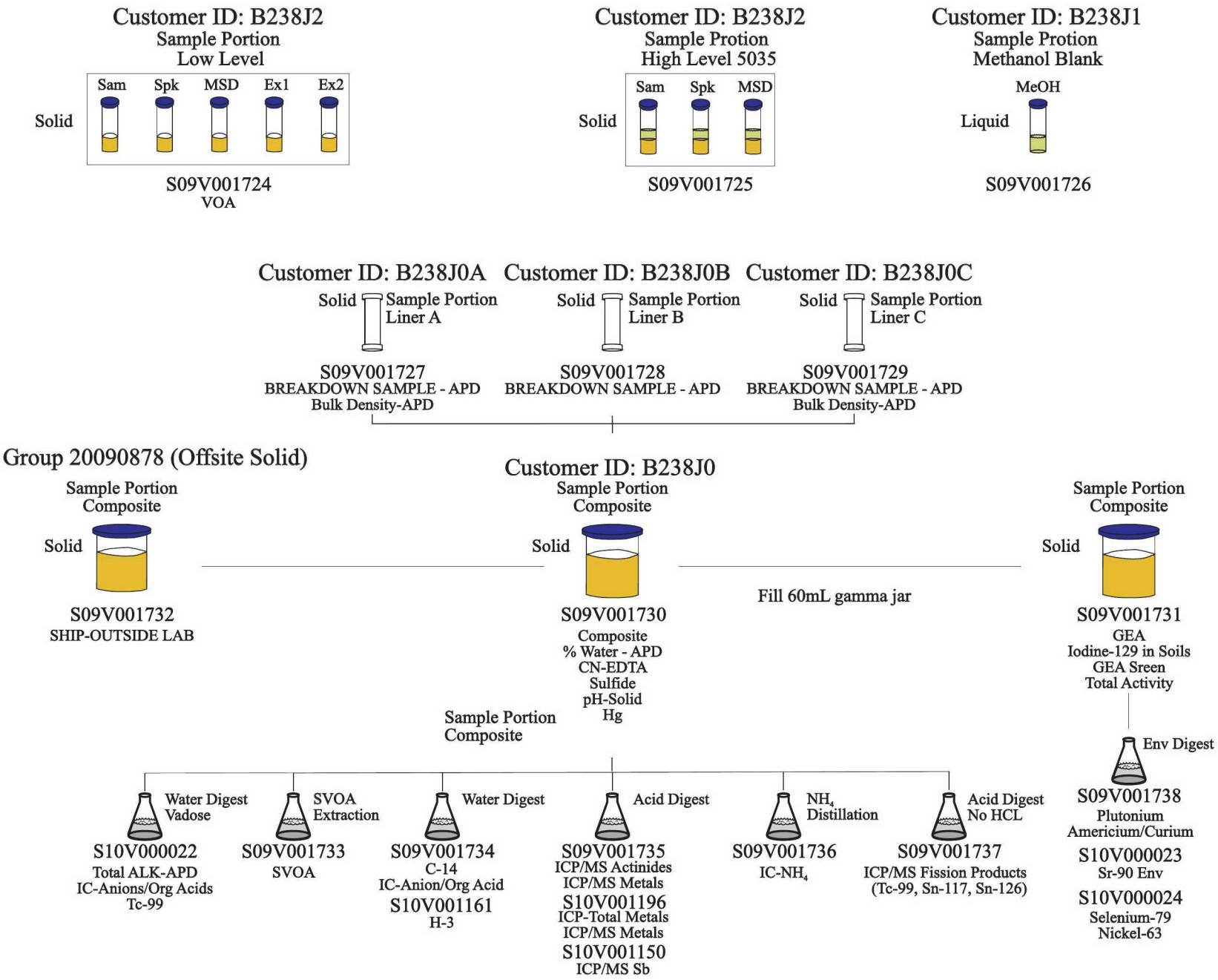
Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090877 (Solid)
Group 20090878 (Offsite Solid)

Sample Depth: 129-131
Segment No: I006



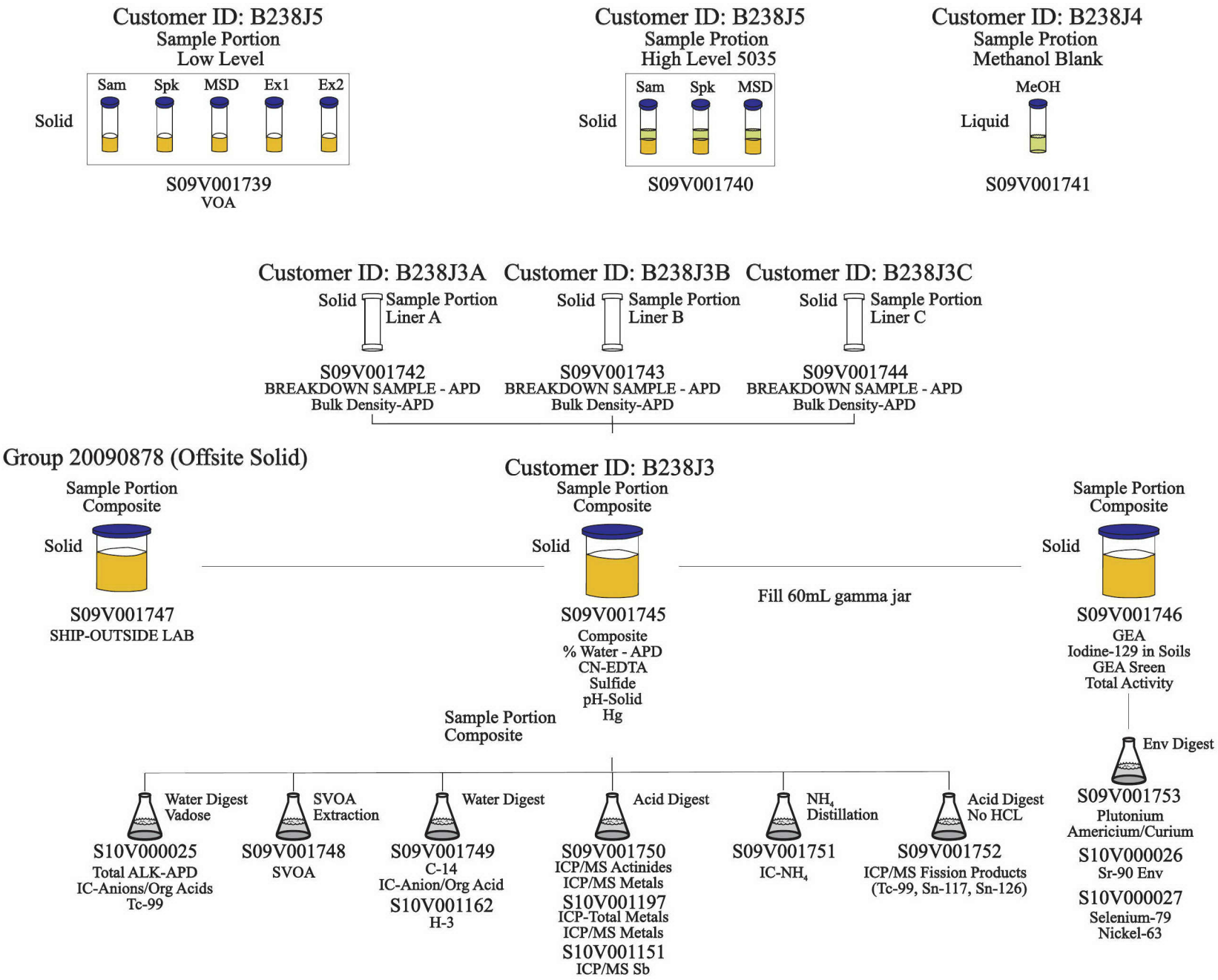
Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090877 (Solid)
Group 20090878 (Offsite Solid)

Sample Depth: 142-144
Segment No: I007



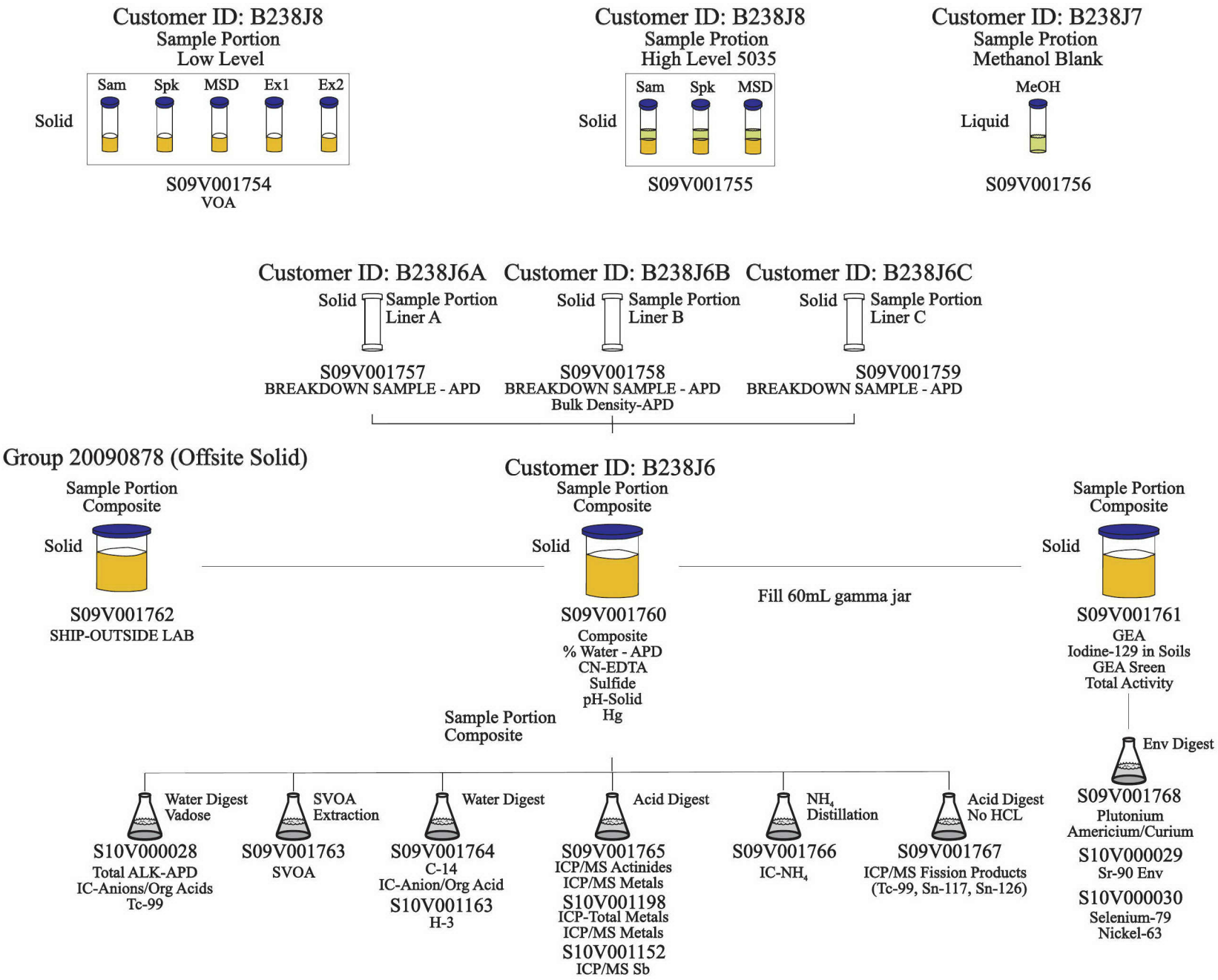
Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090877 (Solid)
Group 20090878 (Offsite Solid)

Sample Depth:158-160
Segment No: I008



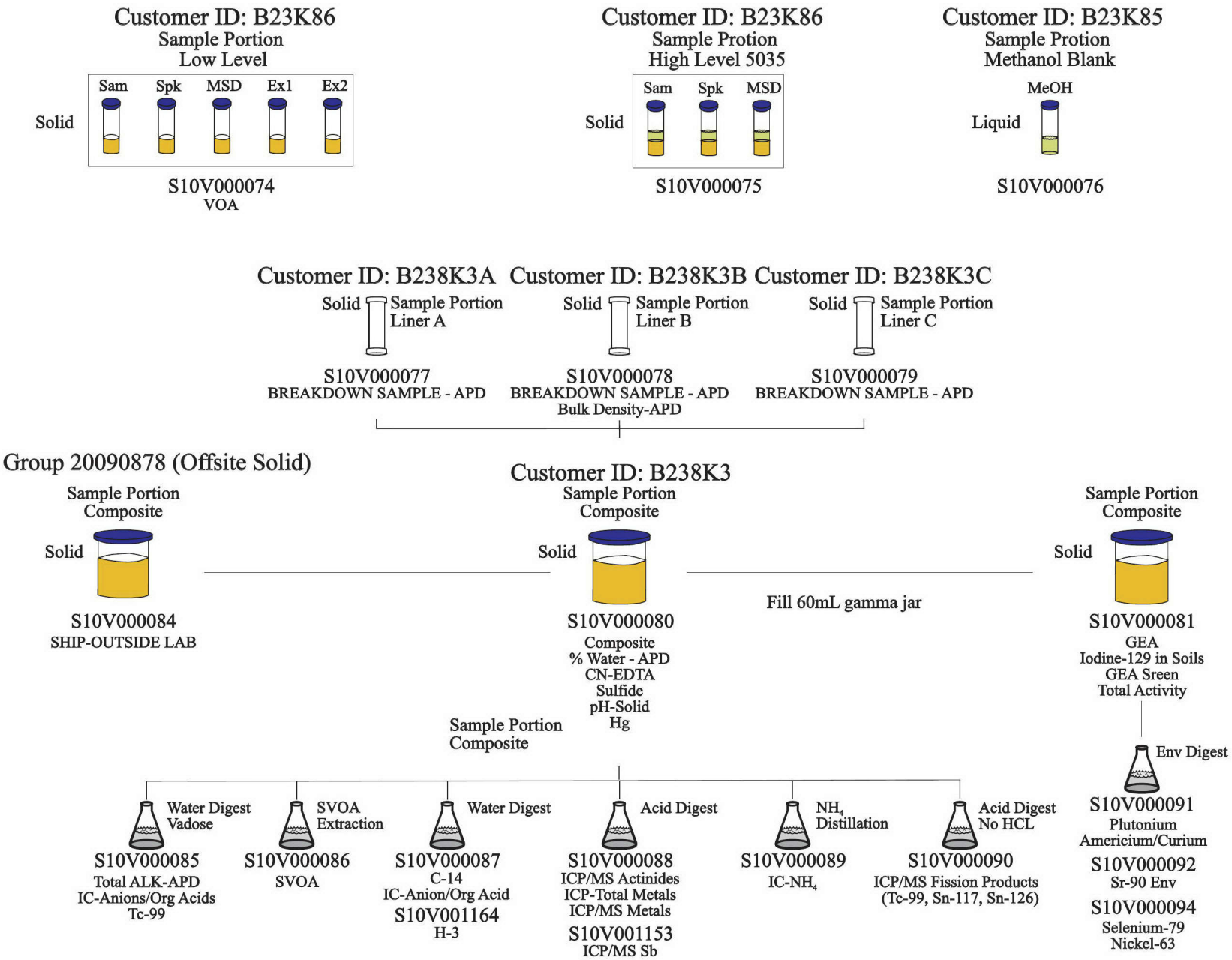
Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090877 (Solid)
Group 20090878 (Offsite Solid)

Sample Depth: 195-197
Segment No: I009



Vadose Zone: C Farm WMC 2010-1
Core No.: C7472
Group 20090877 (Solid)
Group 20090878 (Offsite Solid)

Sample Depth: 216-218
Segment No: I010



Attachment 3

HOLDING TIME REPORT

Holding Time Report: Alkalinity

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S10V000007	SOLID	SM-2320B	WATER DIGEST VADOSE	12/29/09 09:28	12/29/09 13:20	01/05/10 19:43	01/13/10 14:11	N
S10V000010	SOLID	SM-2320B	WATER DIGEST VADOSE	12/29/09 11:40	12/29/09 13:20	01/05/10 19:43	01/13/10 14:11	N
S10V000013	SOLID	SM-2320B	WATER DIGEST VADOSE	12/30/09 10:25	12/30/09 12:00	01/05/10 19:43	01/13/10 14:11	N
S10V000016	SOLID	SM-2320B	WATER DIGEST VADOSE	01/05/10 09:42	01/05/10 14:15	01/05/10 19:43	01/13/10 14:11	N
S10V000019	SOLID	SM-2320B	WATER DIGEST VADOSE	01/05/10 13:10	01/05/10 14:15	01/05/10 19:43	01/13/10 14:11	N
S10V000022	SOLID	SM-2320B	WATER DIGEST VADOSE	01/07/10 10:10	01/07/10 11:30	01/19/10 09:00	01/21/10 14:16	N
S10V000025	SOLID	SM-2320B	WATER DIGEST VADOSE	01/14/10 10:00	01/18/10 14:23	01/19/10 09:00	01/21/10 14:16	N
S10V000028	SOLID	SM-2320B	WATER DIGEST VADOSE	01/15/10 10:00	01/15/10 11:30	01/19/10 09:00	01/21/10 14:16	N
S10V000085	SOLID	SM-2320B	WATER DIGEST VADOSE	01/19/10 10:10	01/19/10 11:30	01/28/10 15:00	01/29/10 14:19	N
S10V000001	SOLID	SM-2320B	WATER DIGEST VADOSE	04/15/10 12:35	04/15/10 14:10	04/20/10 16:02	04/26/10 14:07	N
S10V000004	SOLID	SM-2320B	WATER DIGEST VADOSE	04/15/10 12:35	04/15/10 14:10	04/20/10 16:02	04/26/10 14:07	N

Holding Time Report: Cyanide

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
S09V001604	LIQUID	SW846-9014	SW846-9010C	03/31/10 09:45	03/31/10 14:30	04/13/10 14:25	N
S09V001640	SOLID	SW846-9014	SW846-9010C	12/29/09 09:28	12/29/09 13:20	01/07/10 15:00	N
S09V001655	SOLID	SW846-9014	SW846-9010C	12/29/09 11:40	12/29/09 13:20	01/07/10 15:00	N
S09V001685	SOLID	SW846-9014	SW846-9010C	12/30/09 10:25	12/30/09 12:00	01/07/10 15:00	N
S09V001700	SOLID	SW846-9014	SW846-9010C	01/05/10 09:42	01/05/10 14:15	01/07/10 15:00	N
S09V001715	SOLID	SW846-9014	SW846-9010C	01/05/10 13:10	01/05/10 14:15	01/07/10 15:00	N
S09V001730	SOLID	SW846-9014	SW846-9010C	01/07/10 10:10	01/07/10 11:30	01/20/10 08:27	N
S09V001745	SOLID	SW846-9014	SW846-9010C	01/14/10 10:00	01/14/10 11:00	01/20/10 08:27	N
S09V001760	SOLID	SW846-9014	SW846-9010C	01/15/10 10:00	01/15/10 11:30	01/20/10 08:27	N
S10V000080	SOLID	SW846-9014	SW846-9010C	01/19/10 10:10	01/19/10 11:30	01/29/10 09:00	N
S09V001613	SOLID	SW846-9014	SW846-9010C	04/15/10 12:35	04/15/10 14:10	04/23/10 15:32	N
S09V001625	SOLID	SW846-9014	SW846-9010C	04/15/10 12:35	04/15/10 14:10	04/23/10 15:32	N

Holding Time Report: Sulfide

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
S09V001603	LIQUID	SW846-9215	SW846-9030B	03/31/10 09:45	03/31/10 14:30	04/01/10 14:15	N
S09V001640	SOLID	SW846-9215	SW846-9030B	12/29/09 09:28	12/29/09 13:20	01/04/10 16:50	N
S09V001655	SOLID	SW846-9215	SW846-9030B	12/29/09 11:40	12/29/09 13:20	01/04/10 16:50	N
S09V001685	SOLID	SW846-9215	SW846-9030B	12/30/09 10:25	12/30/09 12:00	01/04/10 16:50	N
S09V001700	SOLID	SW846-9215	SW846-9030B	01/05/10 09:42	01/05/10 14:15	01/07/10 15:20	N
S09V001715	SOLID	SW846-9215	SW846-9030B	01/05/10 13:10	01/05/10 14:15	01/07/10 15:20	N
S09V001730	SOLID	SW846-9215	SW846-9030B	01/07/10 10:10	01/07/10 11:30	01/12/10 22:55	N
S09V001745	SOLID	SW846-9215	SW846-9030B	01/14/10 10:00	01/14/10 11:00	01/20/10 15:20	N
S09V001760	SOLID	SW846-9215	SW846-9030B	01/15/10 10:00	01/15/10 11:30	01/20/10 15:20	N
S10V000080	SOLID	SW846-9215	SW846-9030B	01/19/10 10:10	01/19/10 11:30	01/20/10 15:20	N
S09V001613	SOLID	SW846-9215	SW846-9030B	04/15/10 12:35	04/15/10 14:10	04/20/10 14:30	N
S09V001625	SOLID	SW846-9215	SW846-9030B	04/15/10 12:35	04/15/10 14:10	04/20/10 14:30	N

Analysis Time Report: pH

Sample	Matrix	Method	Sample Date	Received Date	Analysis Date	Days Lapsed
S09V001602	LIQUID	SW846-9040C	03/31/10 09:45	03/31/10 14:30	04/01/10 09:20	1.0
S09V001640	SOLID	SW846-9045D	12/29/09 09:28	12/29/09 13:20	01/04/10 14:05	6.2
S09V001655	SOLID	SW846-9045D	12/29/09 11:40	12/29/09 13:20	01/04/10 14:05	6.1
S09V001685	SOLID	SW846-9045D	12/30/09 10:25	12/30/09 12:00	01/04/10 14:05	5.2
S09V001700	SOLID	SW846-9045D	01/05/10 09:42	01/05/10 14:15	01/06/10 23:30	1.6
S09V001715	SOLID	SW846-9045D	01/05/10 13:10	01/05/10 14:15	01/06/10 23:30	1.4
S09V001730	SOLID	SW846-9045D	01/07/10 10:10	01/07/10 11:30	01/11/10 22:30	4.5
S09V001745	SOLID	SW846-9045D	01/14/10 10:00	01/14/10 11:00	01/19/10 18:10	5.3
S09V001760	SOLID	SW846-9045D	01/15/10 10:00	01/15/10 11:30	01/19/10 18:10	4.3
S10V000080	SOLID	SW846-9045D	01/19/10 10:10	01/19/10 11:30	01/20/10 20:47	1.4
S09V001613	SOLID	SW846-9045D	04/15/10 12:35	04/15/10 14:10	04/20/10 16:20	5.2
S09V001625	SOLID	SW846-9045D	04/15/10 12:35	04/15/10 14:10	04/20/10 16:20	5.2

Holding Time Report: CVAA-Hg

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
S09V001599	LIQUID	SW846-7470A	SW846-7470A	03/31/10 09:45	03/31/10 14:30	04/21/10 14:55	N
S09V001640	SOLID	SW846-7471A	SW846-7471A	12/29/09 09:28	12/29/09 13:20	01/25/10 14:01	N
S09V001655	SOLID	SW846-7471A	SW846-7471A	12/29/09 11:40	12/29/09 13:20	01/25/10 14:01	N
S09V001685	SOLID	SW846-7471A	SW846-7471A	12/30/09 10:25	12/30/09 12:00	01/25/10 14:01	N
S09V001700	SOLID	SW846-7471A	SW846-7471A	01/05/10 09:42	01/05/10 14:15	01/25/10 14:01	N
S09V001715	SOLID	SW846-7471A	SW846-7471A	01/05/10 13:10	01/05/10 14:15	01/25/10 14:01	N
S09V001730	SOLID	SW846-7471A	SW846-7471A	01/07/10 10:10	01/07/10 11:30	01/25/10 14:01	N
S09V001745	SOLID	SW846-7471A	SW846-7471A	01/14/10 10:00	01/14/10 11:00	01/25/10 14:01	N
S09V001760	SOLID	SW846-7471A	SW846-7471A	01/15/10 10:00	01/15/10 11:30	01/25/10 14:01	N
S10V000080	SOLID	SW846-7471A	SW846-7471A	01/19/10 10:10	01/19/10 11:30	01/25/10 14:01	N
S09V001613	SOLID	SW846-7471A	SW846-7471A	04/15/10 12:35	04/15/10 14:10	05/04/10 15:12	N
S09V001625	SOLID	SW846-7471A	SW846-7471A	04/15/10 12:35	04/15/10 14:10	05/04/10 15:12	N

Holding Time Report Ammonia

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S09V001605	LIQUID	EPA-300.7	Distillation	03/31/10 09:45	03/31/10 14:30	04/05/10 12:15	04/05/10 20:09	N
S09V001646	SOLID	EPA-300.7	Distillation	12/29/09 09:28	12/29/09 13:20	12/31/09 10:14	12/31/09 14:15	N
S09V001661	SOLID	EPA-300.7	Distillation	12/29/09 11:40	12/29/09 13:20	12/31/09 10:14	12/31/09 15:23	N
S09V001691	SOLID	EPA-300.7	Distillation	12/30/09 10:25	12/30/09 12:00	12/31/09 10:14	12/31/09 15:40	N
S09V001706	SOLID	EPA-300.7	Distillation	01/05/10 09:42	01/05/10 14:15	01/07/10 09:10	01/07/10 15:43	N
S09V001721	SOLID	EPA-300.7	Distillation	01/05/10 13:10	01/05/10 14:15	01/07/10 09:25	01/07/10 16:51	N
S09V001736	SOLID	EPA-300.7	Distillation	01/07/10 10:10	01/07/10 11:30	01/13/10 13:21	01/13/10 16:45	N
S09V001751	SOLID	EPA-300.7	Distillation	01/14/10 10:00	01/14/10 11:00	01/20/10 11:00	01/20/10 18:34	N
S09V001766	SOLID	EPA-300.7	Distillation	01/15/10 10:00	01/15/10 11:30	01/20/10 11:00	01/20/10 19:42	N
S10V000089	SOLID	EPA-300.7	Distillation	01/19/10 10:10	01/19/10 11:30	01/26/10 11:15	01/26/10 22:08	N
S09V001619	SOLID	EPA-300.7	Distillation	04/15/10 12:35	04/15/10 14:10	04/22/10 15:52	04/22/10 17:09	N
S09V001631	SOLID	EPA-300.7	Distillation	04/15/10 12:35	04/15/10 14:10	04/22/10 15:52	04/22/10 18:17	N

Holding Time Report: Anions by IC

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S09V001602	LIQUID	SW-846 9065A	N/A	03/31/10 09:45	03/31/10 14:30	N/A	04/14/10 01:13	N
S09V001644	SOLID	SW-846 9065A	WATER DIGEST	12/29/09 09:28	12/29/09 13:20	04/20/10 10:00	04/22/10 18:15	Y
S09V001659	SOLID	SW-846 9065A	WATER DIGEST	12/29/09 11:40	12/29/09 13:20	02/17/10 20:44	02/18/10 15:02	N
S09V001659	SOLID	SW-846 9065A	WATER DIGEST	12/29/09 11:40	12/29/09 13:20	02/17/10 20:44	02/18/10 21:25	N
S09V001689	SOLID	SW-846 9065A	WATER DIGEST	12/30/09 10:25	12/30/09 12:00	02/17/10 20:44	02/18/10 16:38	N
S09V001689	SOLID	SW-846 9065A	WATER DIGEST	12/30/09 10:25	12/30/09 12:00	02/17/10 20:44	02/18/10 23:01	N
S09V001704	SOLID	SW-846 9065A	WATER DIGEST	01/05/10 09:42	01/05/10 14:15	02/17/10 20:44	02/18/10 17:10	N
S09V001704	SOLID	SW-846 9065A	WATER DIGEST	01/05/10 09:42	01/05/10 14:15	02/17/10 20:44	02/18/10 23:33	N
S09V001719	SOLID	SW-846 9065A	WATER DIGEST	01/05/10 13:10	01/05/10 14:15	02/17/10 20:44	02/18/10 17:42	N
S09V001719	SOLID	SW-846 9065A	WATER DIGEST	01/05/10 13:10	01/05/10 14:15	02/17/10 20:44	02/19/10 00:05	N
S09V001734	SOLID	SW-846 9065A	WATER DIGEST	01/07/10 10:10	01/07/10 11:30	02/17/10 20:44	02/18/10 18:14	N
S09V001734	SOLID	SW-846 9065A	WATER DIGEST	01/07/10 10:10	01/07/10 11:30	02/17/10 20:44	02/19/10 00:37	N
S09V001749	SOLID	SW-846 9065A	WATER DIGEST	01/14/10 10:00	01/14/10 11:00	02/17/10 20:44	02/18/10 18:46	N
S09V001749	SOLID	SW-846 9065A	WATER DIGEST	01/14/10 10:00	01/14/10 11:00	02/17/10 20:44	02/19/10 01:09	N
S09V001764	SOLID	SW-846 9065A	WATER DIGEST	01/15/10 10:00	01/15/10 11:30	02/17/10 20:44	02/18/10 19:17	N
S09V001764	SOLID	SW-846 9065A	WATER DIGEST	01/15/10 10:00	01/15/10 11:30	02/17/10 20:44	02/19/10 01:41	N
S09V001617	SOLID	SW-846 9065A	WATER DIGEST	04/15/10 12:35	04/15/10 14:10	10/05/10 17:00	10/06/10 04:11	N
S09V001629	SOLID	SW-846 9065A	WATER DIGEST	04/15/10 12:35	04/15/10 14:10	10/05/10 17:00	10/06/10 07:22	N
S10V000087	SOLID	SW-846 9065A	WATER DIGEST	01/19/10 10:10	01/19/10 11:30	10/05/10 17:00	10/06/10 02:35	N

Holding Time Report: Metals by ICP/AES and ICP/MS

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S09V001599	LIQUID	SW846-6010C	N/A	03/31/10 09:45	03/31/10 14:30	N/A	06/15/10 13:25	N
S09V001618	SOLID	SW846-6010C	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 09:48	06/03/10 20:38	N
S09V001618	SOLID	SW846-6010C	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 09:48	06/10/10 10:48	N
S09V001630	SOLID	SW846-6010C	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 09:48	06/03/10 20:42	N
S09V001630	SOLID	SW846-6010C	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 09:48	06/10/10 10:51	N
S09V001645	SOLID	SW846-6010C	SW846-3050B	12/29/09 09:28	12/29/09 13:20	04/27/10 09:48	06/03/10 20:45	N
S09V001645	SOLID	SW846-6010C	SW846-3050B	12/29/09 09:28	12/29/09 13:20	04/27/10 09:48	06/10/10 10:53	N
S09V001660	SOLID	SW846-6010C	SW846-3050B	12/29/09 11:40	12/29/09 13:20	02/03/10 21:48	06/02/10 13:43	N
S09V001690	SOLID	SW846-6010C	SW846-3050B	12/30/09 10:25	12/30/09 12:00	02/03/10 21:48	06/02/10 14:44	N
S09V001720	SOLID	SW846-6010C	SW846-3050B	01/05/10 13:10	01/05/10 14:15	02/03/10 21:48	06/02/10 14:50	N
S10V000088	SOLID	SW846-6010C	SW846-3050B	01/19/10 10:10	01/19/10 11:30	04/27/10 09:48	06/03/10 20:48	N
S10V000088	SOLID	SW846-6010C	SW846-3050B	01/19/10 10:10	01/19/10 11:30	04/27/10 09:48	06/10/10 10:57	N
S10V001194	SOLID	SW846-6010C	SW846-3050B	01/05/10 09:42	01/05/10 14:15	06/23/10 21:26	07/01/10 13:45	N
S10V001196	SOLID	SW846-6010C	SW846-3050B	01/07/10 10:10	01/07/10 11:30	06/23/10 21:26	07/01/10 13:49	N
S10V001197	SOLID	SW846-6010C	SW846-3050B	01/14/10 10:00	01/14/10 11:00	06/23/10 21:26	07/01/10 13:53	N
S10V001198	SOLID	SW846-6010C	SW846-3050B	01/15/10 10:00	01/15/10 11:30	06/23/10 21:26	07/01/10 13:57	N
S09V001618	SOLID	SW846-6020A	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 09:48	06/02/10 20:38	N
S09V001618	SOLID	SW846-6020A	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 09:48	06/15/10 12:46	N
S09V001630	SOLID	SW846-6020A	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 09:48	06/02/10 20:44	N
S09V001630	SOLID	SW846-6020A	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 09:48	06/15/10 12:53	N
S09V001645	SOLID	SW846-6020A	SW846-3050B	12/29/09 09:28	12/29/09 13:20	04/27/10 09:48	06/02/10 20:51	N
S09V001645	SOLID	SW846-6020A	SW846-3050B	12/29/09 09:28	12/29/09 13:20	04/27/10 09:48	06/15/10 13:00	N
S09V001660	SOLID	SW846-6020A	SW846-3050B	12/29/09 11:40	12/29/09 13:20	02/03/10 21:48	06/02/10 14:02	N
S09V001660	SOLID	SW846-6020A	SW846-3050B	12/29/09 11:40	12/29/09 13:20	02/03/10 21:48	06/07/10 20:53	N
S09V001660	SOLID	SW846-6020A	SW846-3050B	12/29/09 11:40	12/29/09 13:20	02/03/10 21:48	06/16/10 19:54	N
S09V001690	SOLID	SW846-6020A	SW846-3050B	12/30/09 10:25	12/30/09 12:00	02/03/10 21:48	06/02/10 14:15	N
S09V001690	SOLID	SW846-6020A	SW846-3050B	12/30/09 10:25	12/30/09 12:00	02/03/10 21:48	06/07/10 21:07	N
S09V001690	SOLID	SW846-6020A	SW846-3050B	12/30/09 10:25	12/30/09 12:00	02/03/10 21:48	06/16/10 20:08	N
S09V001705	SOLID	SW846-6020A	SW846-3050B	01/05/10 09:42	01/05/10 14:15	02/03/10 21:48	06/02/10 14:22	N

Holding Time Report: Metals by ICP/AES and ICP/MS

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S09V001705	SOLID	SW846-6020A	SW846-3050B	01/05/10 09:42	01/05/10 14:15	02/03/10 21:48	06/07/10 21:13	N
S09V001705	SOLID	SW846-6020A	SW846-3050B	01/05/10 09:42	01/05/10 14:15	02/03/10 21:48	06/16/10 20:14	N
S09V001720	SOLID	SW846-6020A	SW846-3050B	01/05/10 13:10	01/05/10 14:15	02/03/10 21:48	06/02/10 14:29	N
S09V001720	SOLID	SW846-6020A	SW846-3050B	01/05/10 13:10	01/05/10 14:15	02/03/10 21:48	06/07/10 21:20	N
S09V001720	SOLID	SW846-6020A	SW846-3050B	01/05/10 13:10	01/05/10 14:15	02/03/10 21:48	06/16/10 20:21	N
S09V001735	SOLID	SW846-6020A	SW846-3050B	01/07/10 10:10	01/07/10 11:30	02/03/10 21:48	06/02/10 14:35	N
S09V001735	SOLID	SW846-6020A	SW846-3050B	01/07/10 10:10	01/07/10 11:30	02/03/10 21:48	06/07/10 21:27	N
S09V001735	SOLID	SW846-6020A	SW846-3050B	01/07/10 10:10	01/07/10 11:30	02/03/10 21:48	06/16/10 20:28	N
S09V001750	SOLID	SW846-6020A	SW846-3050B	01/14/10 10:00	01/14/10 11:00	02/03/10 21:48	06/02/10 15:09	N
S09V001750	SOLID	SW846-6020A	SW846-3050B	01/14/10 10:00	01/14/10 11:00	02/03/10 21:48	06/07/10 22:00	N
S09V001750	SOLID	SW846-6020A	SW846-3050B	01/14/10 10:00	01/14/10 11:00	02/03/10 21:48	06/16/10 20:34	N
S09V001765	SOLID	SW846-6020A	SW846-3050B	01/15/10 10:00	01/15/10 11:30	02/03/10 06:00	06/02/10 15:15	N
S09V001765	SOLID	SW846-6020A	SW846-3050B	01/15/10 10:00	01/15/10 11:30	02/03/10 06:00	06/07/10 22:07	N
S09V001765	SOLID	SW846-6020A	SW846-3050B	01/15/10 10:00	01/15/10 11:30	02/03/10 06:00	06/16/10 21:08	N
S10V000088	SOLID	SW846-6020A	SW846-3050B	01/19/10 10:10	01/19/10 11:30	04/27/10 09:48	06/02/10 19:31	N
S10V000088	SOLID	SW846-6020A	SW846-3050B	01/19/10 10:10	01/19/10 11:30	04/27/10 09:48	06/15/10 13:06	N
S10V001143	SOLID	SW846-6020A	SW846-3050B	04/15/10 12:35	04/15/10 14:10	06/16/10 15:07	06/18/10 19:44	N
S10V001144	SOLID	SW846-6020A	SW846-3050B	04/15/10 12:35	04/15/10 14:10	06/16/10 15:07	06/18/10 19:58	N
S10V001145	SOLID	SW846-6020A	SW846-3050B	12/29/09 09:28	12/29/09 13:20	06/16/10 15:07	06/18/10 20:04	N
S10V001148	SOLID	SW846-6020A	SW846-3050B	01/05/10 09:42	01/05/10 14:15	06/23/10 21:22	06/25/10 18:49	N
S10V001150	SOLID	SW846-6020A	SW846-3050B	01/07/10 10:10	01/07/10 11:30	06/23/10 21:22	06/25/10 18:56	N
S10V001151	SOLID	SW846-6020A	SW846-3050B	01/14/10 10:00	01/14/10 11:00	06/23/10 21:22	06/25/10 19:02	N
S10V001152	SOLID	SW846-6020A	SW846-3050B	01/15/10 10:00	01/15/10 11:30	06/23/10 21:22	06/25/10 19:09	N
S10V001153	SOLID	SW846-6020A	SW846-3050B	01/19/10 10:10	01/19/10 11:30	06/16/10 15:07	06/18/10 20:11	N
S10V001194	SOLID	SW846-6020A	SW846-3050B	01/05/10 09:42	01/05/10 14:15	06/23/10 21:26	06/29/10 21:17	N
S10V001196	SOLID	SW846-6020A	SW846-3050B	01/07/10 10:10	01/07/10 11:30	06/23/10 21:26	06/29/10 21:24	N
S10V001197	SOLID	SW846-6020A	SW846-3050B	01/14/10 10:00	01/14/10 11:00	06/23/10 21:26	06/29/10 21:31	N
S10V001198	SOLID	SW846-6020A	SW846-3050B	01/15/10 10:00	01/15/10 11:30	06/23/10 21:26	06/29/10 21:37	N

Holding Time Report: Isotopic ICP/MS Actinides

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S09V001599	LIQUID	LA-506-102	NA	03/31/10 09:45	03/31/10 14:30	N/A	05/27/10 20:15	N
S09V001618	SOLID	LA-506-102	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 09:48	05/26/10 19:56	N
S09V001630	SOLID	LA-506-102	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 09:48	05/26/10 20:03	N
S09V001765	SOLID	LA-506-102	SW846-3050B	01/15/10 10:00	01/15/10 11:30	02/03/10 06:00	04/27/10 20:01	N
S09V001750	SOLID	LA-506-102	SW846-3050B	01/14/10 10:00	01/14/10 11:00	02/03/10 21:48	04/27/10 19:09	N
S09V001735	SOLID	LA-506-102	SW846-3050B	01/07/10 10:10	01/07/10 11:30	02/03/10 21:48	04/27/10 19:02	N
S09V001720	SOLID	LA-506-102	SW846-3050B	01/05/10 13:10	01/05/10 14:15	02/03/10 21:48	04/27/10 18:55	N
S09V001705	SOLID	LA-506-102	SW846-3050B	01/05/10 09:42	01/05/10 14:15	02/03/10 21:48	04/27/10 18:48	N
S09V001690	SOLID	LA-506-102	SW846-3050B	12/30/09 10:25	12/30/09 12:00	02/03/10 21:48	04/27/10 18:42	N
S09V001660	SOLID	LA-506-102	SW846-3050B	12/29/09 11:40	12/29/09 13:20	02/03/10 21:48	04/27/10 18:28	N
S10V000088	SOLID	LA-506-102	SW846-3050B	01/19/10 10:10	01/19/10 11:30	04/27/10 09:48	05/26/10 19:17	N
S09V001645	SOLID	LA-506-102	SW846-3050B	12/29/09 09:28	12/29/09 13:20	04/27/10 09:48	05/26/10 20:10	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
S09V001599	LIQUID	LA-506-102	NA	03/31/10 09:45	03/31/10 14:30	N/A	06/01/10 19:38	N
S09V001620	SOLID	LA-506-102	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 16:55	06/04/10 20:16	N
S09V001632	SOLID	LA-506-102	SW846-3050B	04/15/10 12:35	04/15/10 14:10	04/27/10 16:55	06/04/10 20:25	N
S09V001620	SOLID	LA-506-102	SW846-3050B	04/15/10 12:35	04/15/10 14:10	06/11/10 14:00	06/14/10 14:05	N
S09V001632	SOLID	LA-506-102	SW846-3050B	04/15/10 12:35	04/15/10 14:10	06/11/10 14:00	06/14/10 14:13	N
S09V001767	SOLID	LA-506-102	SW846-3050B	01/15/10 10:00	01/15/10 11:30	02/03/10 21:49	05/03/10 15:04	N
S09V001752	SOLID	LA-506-102	SW846-3050B	01/14/10 10:00	01/14/10 11:00	02/03/10 21:49	05/03/10 14:56	N
S09V001737	SOLID	LA-506-102	SW846-3050B	01/07/10 10:10	01/07/10 11:30	02/03/10 21:49	05/03/10 14:01	N
S09V001722	SOLID	LA-506-102	SW846-3050B	01/05/10 13:10	01/05/10 14:15	02/03/10 21:49	05/03/10 13:52	N
S09V001707	SOLID	LA-506-102	SW846-3050B	01/05/10 09:42	01/05/10 14:15	02/03/10 21:49	05/03/10 13:44	N
S09V001692	SOLID	LA-506-102	SW846-3050B	12/30/09 10:25	12/30/09 12:00	02/03/10 21:49	05/03/10 13:36	N
S09V001662	SOLID	LA-506-102	SW846-3050B	12/29/09 11:40	12/29/09 13:20	02/03/10 21:49	05/03/10 13:20	N
S10V000090	SOLID	LA-506-102	SW846-3050B	01/19/10 10:10	01/19/10 11:30	04/27/10 16:55	06/04/10 20:41	N
S09V001647	SOLID	LA-506-102	SW846-3050B	12/29/09 09:28	12/29/09 13:20	04/27/10 16:55	06/04/10 20:33	N
S09V001647	SOLID	LA-506-102	SW846-3050B	12/29/09 09:28	12/29/09 13:20	06/11/10 14:00	06/14/10 14:20	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
S10V000019	SOLID	LA-506-102	Vadose Water Digest	01/05/10 13:10	01/05/10 14:15	01/05/10 19:43	01/12/10 10:56	N
S10V000016	SOLID	LA-506-102	Vadose Water Digest	01/05/10 09:42	01/05/10 14:15	01/05/10 19:43	01/12/10 10:45	N
S10V000028	SOLID	LA-506-102	Vadose Water Digest	01/15/10 10:00	01/15/10 11:30	01/19/10 09:00	01/25/10 11:31	N
S10V000025	SOLID	LA-506-102	Vadose Water Digest	01/14/10 10:00	01/18/10 14:23	01/19/10 09:00	01/25/10 11:25	N
S10V000022	SOLID	LA-506-102	Vadose Water Digest	01/07/10 10:10	01/07/10 11:30	01/19/10 09:00	01/25/10 11:14	N
S10V000085	SOLID	LA-506-102	Vadose Water Digest	01/19/10 10:10	01/19/10 11:30	01/28/10 15:00	02/09/10 21:52	N
S10V001199	SOLID	LA-506-102	Vadose Water Digest	04/15/10 12:35	06/29/10 12:19	07/01/10 16:31	07/13/10 18:11	N
S10V001200	SOLID	LA-506-102	Vadose Water Digest	04/15/10 12:35	04/15/10 14:10	07/01/10 16:31	07/13/10 18:16	N
S10V001203	SOLID	LA-506-102	Vadose Water Digest	12/30/09 10:25	12/30/09 12:00	07/01/10 16:31	07/13/10 18:28	**Y**
S10V001202	SOLID	LA-506-102	Vadose Water Digest	12/29/09 11:40	12/29/09 13:20	07/01/10 16:31	07/13/10 18:22	**Y**
S10V001201	SOLID	LA-506-102	Vadose Water Digest	12/29/09 09:28	12/29/09 13:20	07/01/10 16:31	07/13/10 17:59	**Y**

Holding Time Report: Radiochemistry

Sample	Method	Sample Date Time	Received Date	Analysis Date	Missed Holding time
S09V001601	AMERICIUM	03/31/2010 09:45	03/31/2010 14:30	05/07/2010 11:30	N
S09V001621	AMERICIUM	04/15/2010 12:35	04/15/2010 14:10	05/27/2010 15:10	N
S09V001633	AMERICIUM	04/15/2010 12:35	04/15/2010 14:10	05/27/2010 15:10	N
S09V001648	AMERICIUM	12/29/2009 09:28	12/29/2009 13:20	05/27/2010 15:10	N
S09V001663	AMERICIUM	12/29/2009 11:40	12/29/2009 13:20	05/27/2010 15:10	N
S09V001693	AMERICIUM	12/30/2009 10:25	12/30/2009 12:00	05/27/2010 15:10	N
S09V001708	AMERICIUM	01/05/2010 09:42	01/05/2010 14:15	05/27/2010 15:10	N
S09V001723	AMERICIUM	01/05/2010 13:10	01/05/2010 14:15	05/27/2010 15:10	N
S09V001738	AMERICIUM	01/07/2010 10:10	01/07/2010 11:30	05/27/2010 15:10	N
S09V001753	AMERICIUM	01/14/2010 10:00	01/14/2010 11:00	05/27/2010 15:10	N
S09V001768	AMERICIUM	01/15/2010 10:00	01/15/2010 11:30	05/27/2010 15:10	N
S10V000091	AMERICIUM	01/19/2010 10:10	01/19/2010 11:30	05/27/2010 15:10	N
S09V001600	CARBON-14	03/31/2010 09:45	03/31/2010 14:30	04/29/2010 14:25	N
S09V001617	CARBON-14	04/15/2010 12:35	04/15/2010 14:10	05/27/2010 21:15	N
S09V001629	CARBON-14	04/15/2010 12:35	04/15/2010 14:10	05/27/2010 21:15	N
S09V001644	CARBON-14	12/29/2009 09:28	12/29/2009 13:20	05/27/2010 21:15	N
S09V001659	CARBON-14	12/29/2009 11:40	12/29/2009 13:20	06/03/2010 13:35	N
S09V001689	CARBON-14	12/30/2009 10:25	12/30/2009 12:00	06/03/2010 13:35	N
S09V001704	CARBON-14	01/05/2010 09:42	01/05/2010 14:15	06/03/2010 13:35	N
S09V001719	CARBON-14	01/05/2010 13:10	01/05/2010 14:15	06/03/2010 13:35	N
S09V001734	CARBON-14	01/07/2010 10:10	01/07/2010 11:30	06/03/2010 13:35	N
S09V001749	CARBON-14	01/14/2010 10:00	01/14/2010 11:00	06/03/2010 13:35	N
S09V001764	CARBON-14	01/15/2010 10:00	01/15/2010 11:30	06/03/2010 13:35	N
S10V000087	CARBON-14	01/19/2010 10:10	01/19/2010 11:30	05/27/2010 21:15	N
S09V001601	GEA	03/31/2010 09:45	03/31/2010 14:30	09/30/2010 18:08	N
S09V001614	GEA	04/15/2010 12:35	04/15/2010 14:10	04/22/2010 19:32	N
S09V001626	GEA	04/15/2010 12:35	04/15/2010 14:10	04/23/2010 01:01	N
S09V001641	GEA	12/29/2009 09:28	12/29/2009 13:20	04/23/2010 03:40	N
S09V001656	GEA	12/29/2009 11:40	12/29/2009 13:20	04/23/2010 09:39	N
S09V001686	GEA	12/30/2009 10:25	12/30/2009 12:00	04/23/2010 14:27	N
S09V001701	GEA	01/05/2010 09:42	01/05/2010 14:15	04/23/2010 20:12	N

Holding Time Report: Radiochemistry

Sample	Method	Sample Date Time	Received Date	Analysis Date	Missed Holding time
S09V001716	GEA	01/05/2010 13:10	01/05/2010 14:15	04/24/2010 08:06	N
S09V001731	GEA	01/07/2010 10:10	01/07/2010 11:30	04/24/2010 11:34	N
S09V001746	GEA	01/14/2010 10:00	01/14/2010 11:00	04/24/2010 16:03	N
S09V001761	GEA	01/15/2010 10:00	01/15/2010 11:30	04/25/2010 01:44	N
S10V000081	GEA	01/19/2010 10:10	01/19/2010 11:30	04/25/2010 04:36	N
S09V001600	IODINE-129	03/31/2010 09:45	03/31/2010 14:30	06/21/2010 14:30	N
S09V001614	IODINE-129 in SOIL	04/15/2010 12:35	04/15/2010 14:10	05/12/2010 10:00	N
S09V001626	IODINE-129 in SOIL	04/15/2010 12:35	04/15/2010 14:10	05/12/2010 10:00	N
S09V001641	IODINE-129 in SOIL	12/29/2009 09:28	12/29/2009 13:20	05/12/2010 10:00	N
S09V001656	IODINE-129 in SOIL	12/29/2009 11:40	12/29/2009 13:20	05/12/2010 10:00	N
S09V001686	IODINE-129 in SOIL	12/30/2009 10:25	12/30/2009 12:00	05/12/2010 10:00	N
S09V001701	IODINE-129 in SOIL	01/05/2010 09:42	01/05/2010 14:15	05/12/2010 10:00	N
S09V001716	IODINE-129 in SOIL	01/05/2010 13:10	01/05/2010 14:15	05/12/2010 10:00	N
S09V001731	IODINE-129 in SOIL	01/07/2010 10:10	01/07/2010 11:30	05/12/2010 10:00	N
S09V001746	IODINE-129 in SOIL	01/14/2010 10:00	01/14/2010 11:00	05/12/2010 10:00	N
S09V001761	IODINE-129 in SOIL	01/15/2010 10:00	01/15/2010 11:30	05/12/2010 10:00	N
S10V000081	IODINE-129 in SOIL	01/19/2010 10:10	01/19/2010 11:30	05/12/2010 10:00	N
S09V001601	NICKEL-63	03/31/2010 09:45	03/31/2010 14:30	05/27/2010 22:20	N
S10V000003	NICKEL-63	04/15/2010 12:35	04/15/2010 14:10	05/25/2010 23:10	N
S10V000006	NICKEL-63	04/15/2010 12:35	04/15/2010 14:10	05/25/2010 23:10	N
S10V000009	NICKEL-63	12/29/2009 09:28	12/29/2009 13:20	05/25/2010 23:10	N
S10V000012	NICKEL-63	12/29/2009 11:40	12/29/2009 13:20	05/25/2010 23:10	N
S10V000015	NICKEL-63	12/30/2009 10:25	12/30/2009 12:00	05/25/2010 23:10	N
S10V000018	NICKEL-63	01/05/2010 09:42	01/05/2010 14:15	05/25/2010 23:10	N
S10V000021	NICKEL-63	01/05/2010 13:10	01/05/2010 14:15	05/25/2010 23:10	N
S10V000024	NICKEL-63	01/07/2010 10:10	01/07/2010 11:30	05/25/2010 23:10	N
S10V000027	NICKEL-63	01/14/2010 10:00	01/14/2010 11:00	05/25/2010 23:10	N
S10V000030	NICKEL-63	01/15/2010 10:00	01/15/2010 11:30	05/25/2010 23:10	N
S10V000094	NICKEL-63	01/19/2010 10:10	01/20/2010 15:02	05/25/2010 23:10	N
S09V001601	PLUTONIUM	03/31/2010 09:45	03/31/2010 14:30	05/07/2010 11:30	N
S09V001621	PLUTONIUM	04/15/2010 12:35	04/15/2010 14:10	05/27/2010 11:20	N

Holding Time Report: Radiochemistry

Sample	Method	Sample Date Time	Received Date	Analysis Date	Missed Holding time
S09V001633	PLUTONIUM	04/15/2010 12:35	04/15/2010 14:10	05/27/2010 11:20	N
S09V001648	PLUTONIUM	12/29/2009 09:28	12/29/2009 13:20	05/27/2010 11:20	N
S09V001663	PLUTONIUM	12/29/2009 11:40	12/29/2009 13:20	05/27/2010 11:20	N
S09V001693	PLUTONIUM	12/30/2009 10:25	12/30/2009 12:00	05/27/2010 11:20	N
S09V001708	PLUTONIUM	01/05/2010 09:42	01/05/2010 14:15	05/27/2010 11:20	N
S09V001723	PLUTONIUM	01/05/2010 13:10	01/05/2010 14:15	05/27/2010 11:20	N
S09V001738	PLUTONIUM	01/07/2010 10:10	01/07/2010 11:30	05/27/2010 11:20	N
S09V001753	PLUTONIUM	01/14/2010 10:00	01/14/2010 11:00	05/27/2010 11:20	N
S09V001768	PLUTONIUM	01/15/2010 10:00	01/15/2010 11:30	05/27/2010 11:20	N
S10V000091	PLUTONIUM	01/19/2010 10:10	01/19/2010 11:30	05/27/2010 11:20	N
S09V001601	SELENIUM-79	03/31/2010 09:45	03/31/2010 14:30	05/03/2010 14:55	N
S10V000003	SELENIUM-79	04/15/2010 12:35	04/15/2010 14:10	05/27/2010 10:00	N
S10V000006	SELENIUM-79	04/15/2010 12:35	04/15/2010 14:10	05/27/2010 10:00	N
S10V000009	SELENIUM-79	12/29/2009 09:28	12/29/2009 13:20	06/22/2010 15:40	N
S10V000012	SELENIUM-79	12/29/2009 11:40	12/29/2009 13:20	05/27/2010 10:00	N
S10V000015	SELENIUM-79	12/30/2009 10:25	12/30/2009 12:00	05/27/2010 10:00	N
S10V000018	SELENIUM-79	01/05/2010 09:42	01/05/2010 14:15	05/27/2010 10:00	N
S10V000021	SELENIUM-79	01/05/2010 13:10	01/05/2010 14:15	05/27/2010 10:00	N
S10V000024	SELENIUM-79	01/07/2010 10:10	01/07/2010 11:30	05/27/2010 10:00	N
S10V000027	SELENIUM-79	01/14/2010 10:00	01/14/2010 11:00	05/27/2010 10:00	N
S10V000030	SELENIUM-79	01/15/2010 10:00	01/15/2010 11:30	05/27/2010 10:00	N
S10V000094	SELENIUM-79	01/19/2010 10:10	01/20/2010 15:02	05/27/2010 10:00	N
S09V001601	SR-90 ENV LIQUID	03/31/2010 09:45	03/31/2010 14:30	04/29/2010 14:00	N
S10V000002	SR-90 ENV SOLID	04/15/2010 12:35	04/15/2010 14:10	06/21/2010 15:20	N
S10V000005	SR-90 ENV SOLID	04/15/2010 12:35	04/15/2010 14:10	06/21/2010 15:20	N
S10V000008	SR-90 ENV SOLID	12/29/2009 09:28	12/29/2009 13:20	06/21/2010 15:20	N
S10V000011	SR-90 ENV SOLID	12/29/2009 11:40	12/29/2009 13:20	06/21/2010 15:20	N
S10V000014	SR-90 ENV SOLID	12/30/2009 10:25	12/30/2009 12:00	06/21/2010 15:20	N
S10V000017	SR-90 ENV SOLID	01/05/2010 09:42	01/05/2010 14:15	06/21/2010 15:20	N
S10V000020	SR-90 ENV SOLID	01/05/2010 13:10	01/05/2010 14:15	06/21/2010 15:20	N
S10V000023	SR-90 ENV SOLID	01/07/2010 10:10	01/07/2010 11:30	06/21/2010 15:20	N

Holding Time Report: Radiochemistry

Sample	Method	Sample Date Time	Received Date	Analysis Date	Missed Holding time
S10V000026	SR-90 ENV SOLID	01/14/2010 10:00	01/14/2010 11:00	06/21/2010 15:20	N
S10V000029	SR-90 ENV SOLID	01/15/2010 10:00	01/15/2010 11:30	06/21/2010 15:20	N
S10V000092	SR-90 ENV SOLID	01/19/2010 10:10	01/19/2010 11:30	06/21/2010 15:20	N
S09V001600	TRITIUM-LARGE VOLUME	03/31/2010 09:45	03/31/2010 14:30	05/27/2010 11:20	N
S10V001154	TRITIUM-LARGE VOLUME	04/15/2010 12:35	04/15/2010 14:10	06/30/2010 11:25	N
S10V001155	TRITIUM-LARGE VOLUME	04/15/2010 12:35	04/15/2010 14:10	06/30/2010 11:25	N
S10V001156	TRITIUM-LARGE VOLUME	12/29/2009 09:28	12/29/2009 13:20	06/30/2010 11:25	**Y**
S10V001157	TRITIUM-LARGE VOLUME	12/29/2009 11:40	12/29/2009 13:20	06/30/2010 11:25	**Y**
S10V001158	TRITIUM-LARGE VOLUME	12/30/2009 10:25	12/30/2009 12:00	06/30/2010 11:25	**Y**
S10V001159	TRITIUM-LARGE VOLUME	01/05/2010 09:42	01/05/2010 14:15	06/30/2010 11:25	N
S10V001160	TRITIUM-LARGE VOLUME	01/05/2010 13:10	01/05/2010 14:15	06/30/2010 11:25	N
S10V001161	TRITIUM-LARGE VOLUME	01/07/2010 10:10	01/07/2010 11:30	06/30/2010 11:25	N
S10V001162	TRITIUM-LARGE VOLUME	01/14/2010 10:00	01/14/2010 11:00	06/30/2010 11:25	N
S10V001163	TRITIUM-LARGE VOLUME	01/15/2010 10:00	01/15/2010 11:30	06/30/2010 11:25	N
S10V001164	TRITIUM-LARGE VOLUME	01/19/2010 10:10	01/19/2010 11:30	06/30/2010 11:25	N

Holding Time C Farm WMC 2010-1

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
S09V001587	LIQUID	SW846-8260B	SW846-5035	12/29/09 08:50	12/29/09 13:20	01/05/10 17:33	N
S09V001592	LIQUID	SW846-8260B	SW846-5035	12/29/09 09:00	12/29/09 13:20	01/05/10 19:32	N
S09V001588	LIQUID	SW846-8260B	SW846-5035	12/30/09 10:23	12/30/09 12:00	01/05/10 19:02	N
S09V001593	LIQUID	SW846-8260B	SW846-5035	12/30/09 10:27	12/30/09 12:00	01/05/10 20:01	N
S09V001589	LIQUID	SW846-8260B	SW846-5035	01/05/10 08:40	01/05/10 14:15	01/15/10 14:15	N
S09V001594	LIQUID	SW846-8260B	SW846-5035	01/05/10 08:53	01/05/10 14:15	01/15/10 16:15	N
S09V001590	LIQUID	SW846-8260B	SW846-5035	01/07/10 08:30	01/07/10 11:30	01/15/10 15:45	N
S09V001595	LIQUID	SW846-8260B	SW846-5035	01/07/10 08:42	01/07/10 11:30	01/15/10 16:44	N
S09V001591	LIQUID	SW846-8260B	SW846-5035	01/14/10 08:45	01/14/10 11:00	01/15/10 17:14	N
S09V001596	LIQUID	SW846-8260B	SW846-5035	01/14/10 08:50	01/14/10 12:58	01/21/10 16:36	N
S10V000072	LIQUID	SW846-8260B	SW846-5035	01/15/10 07:30	01/15/10 11:30	01/21/10 18:06	N
S10V000073	LIQUID	SW846-8260B	SW846-5035	01/15/10 08:30	01/15/10 11:30	01/21/10 18:35	N
S10V000082	LIQUID	SW846-8260B	SW846-5035	01/19/10 08:25	01/19/10 11:30	01/21/10 19:05	N
S10V000083	LIQUID	SW846-8260B	SW846-5035	01/19/10 08:40	01/19/10 12:30	01/21/10 19:46	N
S09V001597	LIQUID	SW846-8260B	SW846-5035	03/31/10 09:45	03/31/10 14:30	04/08/10 14:37	N
S10V000814	LIQUID	SW846-8260B	SW846-5035	04/15/10 12:35	04/15/10 14:10	04/26/10 15:30	N
S09V001634	SOLID	SW846-8260B	SW846-5035	12/29/09 09:20	12/29/09 13:20	01/05/10 14:05	N
S09V001649	SOLID	SW846-8260B	SW846-5035	12/29/09 11:33	12/29/09 13:20	01/05/10 15:34	N
S09V001679	SOLID	SW846-8260B	SW846-5035	12/30/09 10:25	12/30/09 12:00	01/05/10 16:04	N
S09V001694	SOLID	SW846-8260B	SW846-5035	01/05/10 09:42	01/05/10 14:15	01/14/10 14:13	N
S09V001709	SOLID	SW846-8260B	SW846-5035	01/05/10 13:10	01/05/10 14:15	01/14/10 15:44	N
S09V001724	SOLID	SW846-8260B	SW846-5035	01/07/10 10:10	01/07/10 11:30	01/14/10 16:14	N
S09V001739	SOLID	SW846-8260B	SW846-5035	01/14/10 10:00	01/14/10 11:00	01/14/10 16:43	N
S09V001754	SOLID	SW846-8260B	SW846-5035	01/15/10 10:30	01/15/10 11:30	01/21/10 14:33	N
S10V000074	SOLID	SW846-8260B	SW846-5035	01/19/10 10:10	01/19/10 11:30	01/21/10 16:05	N
S09V001610	SOLID	SW846-8260B	SW846-5035	04/15/10 12:35	04/15/10 14:10	04/22/10 18:21	N
S09V001622	SOLID	SW846-8260B	SW846-5035	04/15/10 12:35	04/15/10 14:10	04/22/10 21:00	Y*

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

Holding Time Report: GC/MS SVOA

Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
S09V001598	LIQUID	SW846-8270D	SW846-3520C	03/31/10 09:45	03/31/10 14:30	04/12/10 09:30	04/19/10 17:32	N
S09V001616	SOLID	SW846-8270D	SW846-3540C	04/15/10 12:35	04/15/10 14:10	04/21/10 17:05	04/27/10 17:18	N
S09V001628	SOLID	SW846-8270D	SW846-3540C	04/15/10 12:35	04/15/10 14:10	04/21/10 17:05	04/27/10 18:10	N
S09V001643	SOLID	SW846-8270D	SW846-3540C	12/29/09 09:28	12/29/09 13:20	01/04/10 14:27	01/06/10 18:07	N
S09V001658	SOLID	SW846-8270D	SW846-3540C	12/29/09 11:40	12/29/09 13:20	01/04/10 14:27	01/06/10 15:49	N
S09V001688	SOLID	SW846-8270D	SW846-3540C	12/30/09 10:25	12/30/09 12:00	01/04/10 14:27	01/06/10 18:52	N
S09V001703	SOLID	SW846-8270D	SW846-3540C	01/05/10 09:42	01/05/10 14:15	01/13/10 15:45	01/21/10 19:59	N
S09V001718	SOLID	SW846-8270D	SW846-3540C	01/05/10 13:10	01/05/10 14:15	01/13/10 15:45	01/21/10 22:37	N
S09V001733	SOLID	SW846-8270D	SW846-3540C	01/07/10 10:10	01/07/10 11:30	01/13/10 15:45	01/21/10 23:30	N
S09V001748	SOLID	SW846-8270D	SW846-3540C	01/14/10 10:00	01/14/10 11:00	01/20/10 14:10	01/25/10 18:25	N
S09V001763	SOLID	SW846-8270D	SW846-3540C	01/15/10 10:00	01/15/10 11:30	01/20/10 14:10	01/25/10 20:56	N
S10V000086	SOLID	SW846-8270D	SW846-3540C	01/19/10 10:10	01/19/10 11:30	01/27/10 14:45	02/01/10 18:08	N

Attachment 4

ADDITIONAL QC RESULTS

Attachment 5

TICs FOR ORGANIC ANALYSES

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238C8

Sample Depth: Field Blank 1

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001592				Unknown-1		15.32	ug/L	7.4	BJ
S09V001592				Unknown-2		17.05	ug/L	7.4	BJ
S09V001592			BLNK	Unknown-1		15.32	ug/L	2.8	
S09V001592			BLNK	Unknown-2		17.04	ug/L	1.3	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238C9

Sample Depth: Field Blank 2

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001593				Unknown-1		15.32	ug/L	9.9	BJ
S09V001593				Unknown-2		17.05	ug/L	9.4	BJ
S09V001593			BLNK	Unknown-1		15.32	ug/L	2.8	
S09V001593			BLNK	Unknown-2		17.04	ug/L	1.3	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238D0

Sample Depth: Field Blank 3

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001594				Unknown-1		15.32	ug/L	6.9	BJ
S09V001594				Unknown-2		17.05	ug/L	5.4	BJ
S09V001594			BLNK	Unknown-1		15.33	ug/L	8.1	
S09V001594			BLNK	Unknown-2		17.05	ug/L	7.0	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238D1

Sample Depth: Field Blank 4

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001595				Unknown-1		15.32	ug/L	7.4	BJ
S09V001595				Unknown-2		17.05	ug/L	5.6	BJ
S09V001595			BLNK	Unknown-1		15.33	ug/L	8.1	
S09V001595			BLNK	Unknown-2		17.05	ug/L	7.0	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238D2

Sample Depth: Field Blank 5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001596				Unknown-1		15.33	ug/L	6.0	BJ
S09V001596				Unknown-2		17.05	ug/L	4.1	J
S09V001596			BLNK	Unknown-1		15.33	ug/L	2.2	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238D3

Sample Depth: Trip Blank 1

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001587				Unknown-1		17.05	ug/L	5.3	BJ
S09V001587			BLNK	Unknown-1		15.32	ug/L	2.8	
S09V001587			BLNK	Unknown-2		17.04	ug/L	1.3	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238D4

Sample Depth: Trip Blank 2

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001588				Unknown-1		15.32	ug/L	8.7	BJ
S09V001588				Unknown-2		17.05	ug/L	8.7	BJ
S09V001588			BLNK	Unknown-1		15.32	ug/L	2.8	
S09V001588			BLNK	Unknown-2		17.04	ug/L	1.3	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238D5

Sample Depth: Trip Blank 3

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001589				Unknown-1		15.33	ug/L	8.5	BJ
S09V001589				Unknown-2		17.05	ug/L	11	BJ
S09V001589			BLNK	Unknown-1		15.33	ug/L	8.1	
S09V001589			BLNK	Unknown-2		17.05	ug/L	7.0	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238D6

Sample Depth: Trip Blank 4

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001590				Unknown-1		15.32	ug/L	4.8	BJ
S09V001590				Unknown-2		17.05	ug/L	4.4	BJ
S09V001590			BLNK	Unknown-1		15.33	ug/L	8.1	
S09V001590			BLNK	Unknown-2		17.05	ug/L	7.0	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238D7

Sample Depth: Trip Blank 5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001591				Unknown-1		15.32	ug/L	6.7	BJ
S09V001591				Unknown-2		17.05	ug/L	5.4	BJ
S09V001591			BLNK	Unknown-1		15.33	ug/L	8.1	
S09V001591			BLNK	Unknown-2		17.05	ug/L	7.0	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238D8

Sample Depth: Equipment Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001597				Unknown-1		15.32	ug/L	4.5	BJ
S09V001597				Unknown-2		17.04	ug/L	3.0	BJ
S09V001597			BLNK	Chlorodifluoromethane	75-45-6	5.03	ug/L	1.9	
S09V001597			BLNK	Unknown-1		15.32	ug/L	1.5	
S09V001597			BLNK	Unknown-2		17.05	ug/L	0.64	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238D9

Sample Depth: Trip Blank 6

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V000072				Unknown-2		17.05	ug/L	3.8	J
S10V000072			BLNK	Unknown-1		15.33	ug/L	2.2	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238F0

Sample Depth: Trip Blank 7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V000082				Unknown-1		15.32	ug/L	2.3	BJ
S10V000082				Unknown-2		17.05	ug/L	2.6	J
S10V000082			BLNK	Unknown-1		15.33	ug/L	2.2	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238F2

Sample Depth: Field Blank 6

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V000073				Unknown-1		15.32	ug/L	9.7	BJ
S10V000073				Unknown-2		17.05	ug/L	8.7	J
S10V000073			BLNK	Unknown-1		15.33	ug/L	2.2	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238F3

Sample Depth: Field Blank 7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V000083				Unknown-1		15.33	ug/L	7.9	BJ
S10V000083				Unknown-2		17.05	ug/L	6.3	J
S10V000083			BLNK	Unknown-1		15.33	ug/L	2.2	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090875

Core Number: C7472

Customer Sample ID: B238F4

Sample Depth: Field Blank 8

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V000814				Difluorochloromethane	75-45-6	5.04	ug/L	13	BJN
S10V000814				Unknown-1		15.32	ug/L	3.5	BJ
S10V000814				Unknown-2		17.04	ug/L	1.9	J
S10V000814			BLNK	Chlorodifluoromethane	75-45-6	5.04	ug/L	15	
S10V000814			BLNK	Unknown-1		15.32	ug/L	1.3	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

23-Feb-2011 13:5934
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B236N5

Sample Depth: Surface

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001616		O		Unknown-1		12.34	ug/kg	290	BJ
S09V001616		O		Unknown-2		12.38	ug/kg	280	BJ
S09V001616		O		1,2-Benzenedicarboxyli	84-69-5	15.02	ug/kg	280	BJN
S09V001616		O	BLNK	Unknown-1		12.34	ug/kg	510	
S09V001616		O	BLNK	Unknown-2		12.38	ug/kg	430	
S09V001616		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	430	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B236N7

Sample Depth: Surface

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001610				Unknown-1		17.04	ug/kg	1.9	J

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B236N8

Sample Depth: Surface Dup

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001628		O		Unknown-1		12.34	ug/kg	750	BJ
S09V001628		O		Unknown-2		12.38	ug/kg	690	BJ
S09V001628		O		1,2-Benzenedicarboxyli	84-69-5	15.02	ug/kg	240	BJN
S09V001628		O		Unknown-3		18.96	ug/kg	260	J
S09V001628		O	BLNK	Unknown-1		12.34	ug/kg	510	
S09V001628		O	BLNK	Unknown-2		12.38	ug/kg	430	
S09V001628		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	430	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B236P2

Sample Depth: 5-7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001643		O		Oxirane, trimethyl-	5076-19-7	2.92	ug/kg	290	BJN
S09V001643		O		1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	1.1E+03	BJN
S09V001643		O		Hexadecanoic acid (9CI)	57-10-3	15.61	ug/kg	220	JN
S09V001643		O		1,2 Benzenedicarboxyli	4376-20-9	19.15	ug/kg	230	JN
S09V001643		O		Unknown-1		20.58	ug/kg	370	J
S09V001643		O		Unknown-2		20.65	ug/kg	580	J
S09V001643		O		Unknown-3		20.76	ug/kg	420	J
S09V001643		O		Unknown-4		20.96	ug/kg	230	J
S09V001643		O		Unknown-5		21.03	ug/kg	390	J
S09V001643		O		Unknown-6		21.12	ug/kg	270	J
S09V001643		O		Unknown-7		21.24	ug/kg	290	J
S09V001643		O	BLNK	Oxirane, trimethyl-	5076-19-7	2.93	ug/kg	3.7E+03	
S09V001643		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	2.6E+03	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B236P4

Sample Depth: 5-7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001634				Pentane, 3,3-dimethyl-	562-49-2	10.18	ug/kg	4.3	JN
S09V001634				Hexane, 2-methyl-	591-76-4	10.27	ug/kg	2.6	JN
S09V001634				Pentane, 2,3-dimethyl-	565-59-3	10.43	ug/kg	6.1	JN
S09V001634				Hexane, 3-methyl-	589-34-4	10.49	ug/kg	5.9	JN
S09V001634				Pentane, 3-ethyl-	617-78-7	10.74	ug/kg	2.7	JN

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B238H1

Sample Depth: 14-16

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001688		O		Oxirane, trimethyl-	5076-19-7	2.92	ug/kg	290	BJN
S09V001688		O		1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	1.5E+03	BJN
S09V001688		O		1,2--Benzenedicarboxyl	17851-53-5	15.68	ug/kg	210	JN
S09V001688		O		Unknown-1		18.91	ug/kg	400	J
S09V001688		O		1,2 Benzenedicarboxyli	4376-20-9	19.15	ug/kg	270	JN
S09V001688		O	BLNK	Oxirane, trimethyl-	5076-19-7	2.93	ug/kg	3.7E+03	
S09V001688		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	2.6E+03	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B238H4

Sample Depth: 108.5-110.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001703		O		1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	230	BJN
S09V001703		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	93	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B238H7

Sample Depth: 129-131

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001718		O		1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	510	BJN
S09V001718		O		Unknown-1		18.92	ug/kg	360	J
S09V001718		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	93	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B238J0

Sample Depth: 142-144

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001733		O		1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	1.3E+03	BJN
S09V001733		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	93	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B238J3

Sample Depth: 158-160

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001748		O		1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	360	BJN
S09V001748		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	1.6E+03	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B238J6

Sample Depth: 195-197

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001763		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	1.6E+03	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B238K3

Sample Depth: 216-218

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V000086		O		1,2-Benzenedicarboxyli	84-69-5	15.02	ug/kg	200	BJN
S10V000086		O		Unknown Hydrocarbon-1		18.98	ug/kg	250	J
S10V000086		O		1,2 Benzenedicarboxyli	84-76-4	20.65	ug/kg	210	JN
S10V000086		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	260	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Data Summary and Opportunistic Analyte Results

Sample Group: 20090877

Core Number: C7472

Customer Sample ID: B23KT4

Sample Depth: 10-14

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001658		O		Oxirane, trimethyl-	5076-19-7	2.93	ug/kg	370	BJN
S09V001658		O		1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	560	BJN
S09V001658		O		Unknown-1		18.90	ug/kg	340	J
S09V001658		O	BLNK	Oxirane, trimethyl-	5076-19-7	2.93	ug/kg	3.7E+03	
S09V001658		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.03	ug/kg	2.6E+03	

NA = Not Analyzed, ND = Not Detectec

J - Estimated B - Blank Contamination N - Named TIC U - Less Than Detection Limit

Attachment 6

ANALYTICAL BATCH AND LABORATORY SAMPLE ID INDEX

Batch/Sample Index

Project: C Farm WMC 2010-1
Groups: 20090877, 20090875

METHOD	BATCH	SAMPLE	MATRIX
Sample Group: 20090877			
AMERICIUM	00019567	S09V001621	SOLID
AMERICIUM	00019567	S09V001633	SOLID
AMERICIUM	00019567	S09V001648	SOLID
AMERICIUM	00019567	S09V001663	SOLID
AMERICIUM	00019567	S09V001693	SOLID
AMERICIUM	00019567	S09V001708	SOLID
AMERICIUM	00019567	S09V001723	SOLID
AMERICIUM	00019567	S09V001738	SOLID
AMERICIUM	00019567	S09V001753	SOLID
AMERICIUM	00019567	S09V001768	SOLID
AMERICIUM	00019567	S10V000091	SOLID
CARBON-14	00019715	S09V001617	SOLID
CARBON-14	00019715	S09V001629	SOLID
CARBON-14	00019715	S09V001644	SOLID
CARBON-14	00019715	S10V000087	SOLID
CARBON-14	00019725	S09V001659	SOLID
CARBON-14	00019725	S09V001689	SOLID
CARBON-14	00019725	S09V001704	SOLID
CARBON-14	00019725	S09V001719	SOLID
CARBON-14	00019725	S09V001734	SOLID
CARBON-14	00019725	S09V001749	SOLID
CARBON-14	00019725	S09V001764	SOLID
TOTAL ALK	00023044	S10V000007	SOLID
TOTAL ALK	00023044	S10V000010	SOLID
TOTAL ALK	00023044	S10V000013	SOLID
TOTAL ALK	00023044	S10V000016	SOLID
TOTAL ALK	00023044	S10V000019	SOLID
TOTAL ALK	00023045	S10V000022	SOLID
TOTAL ALK	00023045	S10V000025	SOLID
TOTAL ALK	00023045	S10V000028	SOLID
TOTAL ALK	00023046	S10V000085	SOLID
TOTAL ALK	00023047	S10V000001	SOLID
TOTAL ALK	00023047	S10V000004	SOLID
CN - EDTA	00017244	S09V001640	SOLID
CN - EDTA	00017244	S09V001655	SOLID
CN - EDTA	00017244	S09V001685	SOLID
CN - EDTA	00017244	S09V001700	SOLID
CN - EDTA	00017244	S09V001715	SOLID
CN - EDTA	00017502	S09V001730	SOLID
CN - EDTA	00017502	S09V001745	SOLID
CN - EDTA	00017502	S09V001760	SOLID
CN - EDTA	00017634	S10V000080	SOLID
CN - EDTA	00019042	S09V001613	SOLID
CN - EDTA	00019042	S09V001625	SOLID
GEA	00019004	S09V001614	SOLID
GEA	00019004	S09V001626	SOLID
GEA	00019004	S09V001641	SOLID
GEA	00019004	S09V001656	SOLID
GEA	00019004	S09V001686	SOLID
GEA	00019004	S09V001701	SOLID
GEA	00019004	S09V001716	SOLID
GEA	00019004	S09V001731	SOLID
GEA	00019004	S09V001746	SOLID
GEA	00019004	S09V001761	SOLID
GEA	00019004	S10V000081	SOLID

METHOD	BATCH	SAMPLE	MATRIX
HG	00017574	S09V001640	SOLID
HG	00017574	S09V001655	SOLID
HG	00017574	S09V001685	SOLID
HG	00017574	S09V001700	SOLID
HG	00017574	S09V001715	SOLID
HG	00017574	S09V001730	SOLID
HG	00017574	S09V001745	SOLID
HG	00017574	S09V001760	SOLID
HG	00017574	S10V000080	SOLID
HG	00019066	S09V001613	SOLID
HG	00019066	S09V001625	SOLID
IC - ANIONS	00017430	S10V000016	SOLID
IC - ANIONS	00017430	S10V000019	SOLID
IC - ANIONS	00017571	S10V000022	SOLID
IC - ANIONS	00017571	S10V000025	SOLID
IC - ANIONS	00017571	S10V000028	SOLID
IC - ANIONS	00017738	S10V000085	SOLID
IC - ANIONS	00018015	S09V001659	SOLID
IC - ANIONS	00018015	S09V001689	SOLID
IC - ANIONS	00018015	S09V001704	SOLID
IC - ANIONS	00018015	S09V001719	SOLID
IC - ANIONS	00018015	S09V001734	SOLID
IC - ANIONS	00018015	S09V001749	SOLID
IC - ANIONS	00018015	S09V001764	SOLID
IC - ANIONS	00019058	S09V001644	SOLID
IC - ANIONS	00022897	S09V001617	SOLID
IC - ANIONS	00022897	S09V001629	SOLID
IC - ANIONS	00022897	S10V000087	SOLID
IC - NH4	00017217	S09V001646	SOLID
IC - NH4	00017217	S09V001661	SOLID
IC - NH4	00017217	S09V001691	SOLID
IC - NH4	00017391	S09V001736	SOLID
IC - NH4	00017515	S09V001751	SOLID
IC - NH4	00017515	S09V001766	SOLID
IC - NH4	00017605	S10V000089	SOLID
IC - NH4	00017632	S09V001706	SOLID
IC - NH4	00017632	S09V001721	SOLID
IC - NH4	00019029	S09V001619	SOLID
IC - NH4	00019029	S09V001631	SOLID
ICP/AES METALS	00019868	S09V001660	SOLID
ICP/AES METALS	00019868	S09V001690	SOLID
ICP/AES METALS	00019868	S09V001720	SOLID
ICP/AES METALS	00019876	S09V001618	SOLID
ICP/AES METALS	00019876	S09V001630	SOLID
ICP/AES METALS	00019876	S09V001645	SOLID
ICP/AES METALS	00019876	S10V000088	SOLID
ICP/AES METALS	00020066	S09V001618	SOLID
ICP/AES METALS	00020066	S09V001630	SOLID
ICP/AES METALS	00020066	S09V001645	SOLID
ICP/AES METALS	00020066	S10V000088	SOLID
ICP/AES METALS	00020412	S10V001194	SOLID
ICP/AES METALS	00020412	S10V001196	SOLID
ICP/AES METALS	00020412	S10V001197	SOLID
ICP/AES METALS	00020412	S10V001198	SOLID

METHOD	BATCH	SAMPLE	MATRIX
IODINE-129 in SOIL	00019154	S09V001614	SOLID
IODINE-129 in SOIL	00019154	S09V001626	SOLID
IODINE-129 in SOIL	00019154	S09V001641	SOLID
IODINE-129 in SOIL	00019154	S09V001656	SOLID
IODINE-129 in SOIL	00019154	S09V001686	SOLID
IODINE-129 in SOIL	00019154	S09V001701	SOLID
IODINE-129 in SOIL	00019154	S09V001716	SOLID
IODINE-129 in SOIL	00019154	S09V001731	SOLID
IODINE-129 in SOIL	00019154	S09V001746	SOLID
IODINE-129 in SOIL	00019154	S09V001761	SOLID
IODINE-129 in SOIL	00019154	S10V000081	SOLID
ICP/MS ACTINIDES	00019152	S09V001660	SOLID
ICP/MS ACTINIDES	00019152	S09V001690	SOLID
ICP/MS ACTINIDES	00019152	S09V001705	SOLID
ICP/MS ACTINIDES	00019152	S09V001720	SOLID
ICP/MS ACTINIDES	00019152	S09V001735	SOLID
ICP/MS ACTINIDES	00019152	S09V001750	SOLID
ICP/MS ACTINIDES	00019152	S09V001765	SOLID
ICP/MS ACTINIDES	00019661	S09V001618	SOLID
ICP/MS ACTINIDES	00019661	S09V001630	SOLID
ICP/MS ACTINIDES	00019661	S09V001645	SOLID
ICP/MS ACTINIDES	00019661	S10V000088	SOLID
ICP/MS TC-99, SN-126	00019814	S09V001620	SOLID
ICP/MS TC-99, SN-126	00019814	S09V001632	SOLID
ICP/MS TC-99, SN-126	00019814	S09V001647	SOLID
ICP/MS TC-99, SN-126	00019814	S10V000090	SOLID
ICP/MS TC-99, SN-126	00019815	S09V001662	SOLID
ICP/MS TC-99, SN-126	00019815	S09V001692	SOLID
ICP/MS TC-99, SN-126	00019815	S09V001707	SOLID
ICP/MS TC-99, SN-126	00019815	S09V001722	SOLID
ICP/MS TC-99, SN-126	00019815	S09V001737	SOLID
ICP/MS TC-99, SN-126	00019815	S09V001752	SOLID
ICP/MS TC-99, SN-126	00019815	S09V001767	SOLID
ICP/MS TC-99, SN-126	00020169	S09V001620	SOLID
ICP/MS TC-99, SN-126	00020169	S09V001632	SOLID
ICP/MS TC-99, SN-126	00020169	S09V001647	SOLID
ICP/MS METALS	00019915	S09V001618	SOLID
ICP/MS METALS	00019915	S09V001630	SOLID
ICP/MS METALS	00019915	S09V001645	SOLID
ICP/MS METALS	00019915	S10V000088	SOLID
ICP/MS METALS	00020005	S09V001660	SOLID
ICP/MS METALS	00020005	S09V001690	SOLID
ICP/MS METALS	00020005	S09V001705	SOLID
ICP/MS METALS	00020005	S09V001720	SOLID
ICP/MS METALS	00020005	S09V001735	SOLID
ICP/MS METALS	00020005	S09V001750	SOLID
ICP/MS METALS	00020005	S09V001765	SOLID
ICP/MS METALS	00020170	S09V001660	SOLID
ICP/MS METALS	00020170	S09V001690	SOLID
ICP/MS METALS	00020170	S09V001705	SOLID
ICP/MS METALS	00020170	S09V001720	SOLID
ICP/MS METALS	00020170	S09V001735	SOLID
ICP/MS METALS	00020170	S09V001750	SOLID
ICP/MS METALS	00020170	S09V001765	SOLID
ICP/MS METALS	00020171	S09V001618	SOLID
ICP/MS METALS	00020171	S09V001630	SOLID
ICP/MS METALS	00020171	S09V001645	SOLID
ICP/MS METALS	00020171	S10V000088	SOLID

METHOD	BATCH	SAMPLE	MATRIX
ICP/MS METALS	00020197	S10V001143	SOLID
ICP/MS METALS	00020197	S10V001144	SOLID
ICP/MS METALS	00020197	S10V001145	SOLID
ICP/MS METALS	00020197	S10V001153	SOLID
ICP/MS METALS	00020312	S10V001146	SOLID
ICP/MS METALS	00020312	S10V001148	SOLID
ICP/MS METALS	00020312	S10V001150	SOLID
ICP/MS METALS	00020312	S10V001151	SOLID
ICP/MS METALS	00020312	S10V001152	SOLID
ICP/MS METALS	00020363	S10V001194	SOLID
ICP/MS METALS	00020363	S10V001196	SOLID
ICP/MS METALS	00020363	S10V001197	SOLID
ICP/MS METALS	00020363	S10V001198	SOLID
MS TC-99	00017425	S10V000016	SOLID
MS TC-99	00017425	S10V000019	SOLID
MS TC-99	00017655	S10V000022	SOLID
MS TC-99	00017655	S10V000025	SOLID
MS TC-99	00017655	S10V000028	SOLID
MS TC-99	00017853	S10V000085	SOLID
MS TC-99	00020688	S10V001199	SOLID
MS TC-99	00020688	S10V001200	SOLID
MS TC-99	00020688	S10V001201	SOLID
MS TC-99	00020688	S10V001202	SOLID
MS TC-99	00020688	S10V001203	SOLID
NICKEL-63	00019629	S10V000003	SOLID
NICKEL-63	00019629	S10V000006	SOLID
NICKEL-63	00019629	S10V000009	SOLID
NICKEL-63	00019629	S10V000012	SOLID
NICKEL-63	00019629	S10V000015	SOLID
NICKEL-63	00019629	S10V000018	SOLID
NICKEL-63	00019629	S10V000021	SOLID
NICKEL-63	00019629	S10V000024	SOLID
NICKEL-63	00019629	S10V000027	SOLID
NICKEL-63	00019629	S10V000030	SOLID
NICKEL-63	00019629	S10V000094	SOLID
PH SOLID	00017211	S09V001640	SOLID
PH SOLID	00017211	S09V001655	SOLID
PH SOLID	00017211	S09V001685	SOLID
PH SOLID	00017270	S09V001700	SOLID
PH SOLID	00017270	S09V001715	SOLID
PH SOLID	00017334	S09V001730	SOLID
PH SOLID	00017506	S09V001745	SOLID
PH SOLID	00017506	S09V001760	SOLID
PH SOLID	00017529	S10V000080	SOLID
PH SOLID	00018971	S09V001613	SOLID
PH SOLID	00018971	S09V001625	SOLID
PLUTONIUM	00019569	S09V001621	SOLID
PLUTONIUM	00019569	S09V001633	SOLID
PLUTONIUM	00019569	S09V001648	SOLID
PLUTONIUM	00019569	S09V001663	SOLID
PLUTONIUM	00019569	S09V001693	SOLID
PLUTONIUM	00019569	S09V001708	SOLID
PLUTONIUM	00019569	S09V001723	SOLID
PLUTONIUM	00019569	S09V001738	SOLID
PLUTONIUM	00019569	S09V001753	SOLID
PLUTONIUM	00019569	S09V001768	SOLID
PLUTONIUM	00019569	S10V000091	SOLID

METHOD	BATCH	SAMPLE	MATRIX
SELENIUM-79	00019630	S10V000003	SOLID
SELENIUM-79	00019630	S10V000006	SOLID
SELENIUM-79	00019630	S10V000012	SOLID
SELENIUM-79	00019630	S10V000015	SOLID
SELENIUM-79	00019630	S10V000018	SOLID
SELENIUM-79	00019630	S10V000021	SOLID
SELENIUM-79	00019630	S10V000024	SOLID
SELENIUM-79	00019630	S10V000027	SOLID
SELENIUM-79	00019630	S10V000030	SOLID
SELENIUM-79	00019630	S10V000094	SOLID
SELENIUM-79	00020210	S10V000009	SOLID
SR-90 ENV SOLID	00020132	S10V000002	SOLID
SR-90 ENV SOLID	00020132	S10V000005	SOLID
SR-90 ENV SOLID	00020132	S10V000008	SOLID
SR-90 ENV SOLID	00020132	S10V000011	SOLID
SR-90 ENV SOLID	00020132	S10V000014	SOLID
SR-90 ENV SOLID	00020132	S10V000017	SOLID
SR-90 ENV SOLID	00020132	S10V000020	SOLID
SR-90 ENV SOLID	00020132	S10V000023	SOLID
SR-90 ENV SOLID	00020132	S10V000026	SOLID
SR-90 ENV SOLID	00020132	S10V000029	SOLID
SR-90 ENV SOLID	00020132	S10V000092	SOLID
SULFIDE	00017209	S09V001640	SOLID
SULFIDE	00017209	S09V001655	SOLID
SULFIDE	00017209	S09V001685	SOLID
SULFIDE	00017298	S09V001700	SOLID
SULFIDE	00017298	S09V001715	SOLID
SULFIDE	00017382	S09V001730	SOLID
SULFIDE	00017527	S09V001745	SOLID
SULFIDE	00017527	S09V001760	SOLID
SULFIDE	00017527	S10V000080	SOLID
SULFIDE	00018963	S09V001613	SOLID
SULFIDE	00018963	S09V001625	SOLID
SVOA 222S #2	00017674	S10V000086	SOLID
SVOA 222S #2	00017675	S09V001748	SOLID
SVOA 222S #2	00017675	S09V001763	SOLID
SVOA 222S #2	00017708	S09V001703	SOLID
SVOA 222S #2	00017708	S09V001718	SOLID
SVOA 222S #2	00017708	S09V001733	SOLID
SVOA 222S #2	00019182	S09V001616	SOLID
SVOA 222S #2	00019182	S09V001628	SOLID
SVOA 222S #2	00020075	S09V001643	SOLID
SVOA 222S #2	00020075	S09V001658	SOLID
SVOA 222S #2	00020075	S09V001688	SOLID
TRITIUM	00020140	S10V001154	SOLID
TRITIUM	00020140	S10V001155	SOLID
TRITIUM	00020140	S10V001156	SOLID
TRITIUM	00020140	S10V001157	SOLID
TRITIUM	00020140	S10V001158	SOLID
TRITIUM	00020140	S10V001159	SOLID
TRITIUM	00020140	S10V001160	SOLID
TRITIUM	00020140	S10V001161	SOLID
TRITIUM	00020140	S10V001162	SOLID
TRITIUM	00020140	S10V001163	SOLID
TRITIUM	00020140	S10V001164	SOLID

METHOD	BATCH	SAMPLE	MATRIX
VOA 222S #2	00017236	S09V001634	SOLID
VOA 222S #2	00017236	S09V001649	SOLID
VOA 222S #2	00017236	S09V001679	SOLID
VOA 222S #2	00017427	S09V001694	SOLID
VOA 222S #2	00017427	S09V001709	SOLID
VOA 222S #2	00017427	S09V001724	SOLID
VOA 222S #2	00017427	S09V001739	SOLID
VOA 222S #2	00017562	S09V001754	SOLID
VOA 222S #2	00017562	S10V000074	SOLID
VOA 222S #2	00018921	S09V001610	SOLID
VOA 222S #2	00018921	S09V001622	SOLID

Sample Group: 20090875

METHOD	BATCH	SAMPLE	MATRIX
AMERICIUM	00019108	S09V001601	LIQUID
CARBON-14	00019131	S09V001600	LIQUID
CN - WATER	00018869	S09V001604	LIQUID
GEA	00018997	S09V001601	LIQUID
HG	00019008	S09V001599	LIQUID
IC - ANIONS	00018862	S09V001602	LIQUID
IC - NH4	00018693	S09V001605	LIQUID
ICP/AES METALS	00020123	S09V001599	LIQUID
IODINE-129	00020079	S09V001600	LIQUID
ICP/MS ACTINIDES	00019809	S09V001599	LIQUID
ICP/MS ACTINIDES	00019819	S09V001599	LIQUID
PH LIQUID	00018630	S09V001602	LIQUID
PLUTONIUM	00019110	S09V001601	LIQUID
SELENIUM-79	00019135	S09V001601	LIQUID
SR-90 ENV LIQUID	00019106	S09V001601	LIQUID
SULFIDE	00018644	S09V001603	LIQUID
SVOA 222S #2	00018956	S09V001598	LIQUID
TOTAL ALKALINITY		S09V001602	LIQUID
TRITIUM	00019615	S09V001600	LIQUID
VOA 222S #2	00017252	S09V001587	LIQUID
VOA 222S #2	00017252	S09V001588	LIQUID
VOA 222S #2	00017252	S09V001592	LIQUID
VOA 222S #2	00017252	S09V001593	LIQUID
VOA 222S #2	00017485	S09V001589	LIQUID
VOA 222S #2	00017485	S09V001590	LIQUID
VOA 222S #2	00017485	S09V001591	LIQUID
VOA 222S #2	00017485	S09V001594	LIQUID
VOA 222S #2	00017485	S09V001595	LIQUID
VOA 222S #2	00017821	S09V001596	LIQUID
VOA 222S #2	00017821	S10V000072	LIQUID
VOA 222S #2	00017821	S10V000073	LIQUID
VOA 222S #2	00017821	S10V000082	LIQUID
VOA 222S #2	00017821	S10V000083	LIQUID
VOA 222S #2	00018763	S09V001597	LIQUID
VOA 222S #2	00019861	S10V000814	LIQUID

Attachment 7

GEOLOGICAL REPORT

Attachment 8

CHARACTERIZATION CHANGE NOTICES
AND CORRESPONDENCE

REVIEW COMMENT RECORD (RCR)	1. Date 2/17/2011 (rev. 1)	2. Review No.
	3. Project No.	Page 1 of 2

5. Document Number(s)/Title(s)	6. Program/Project/Building Number	7. Reviewer	8. Organization/Group	9. Location/Phone
ATL#20090877 Rev.0 **Final Analytical Report for Samples from Waste Management Area C for Core Hole C7472, in Support of RCRA Soil Characterization**	WRPS	HL Anastos	Closure and Corrective Measures	1200 Jadwin/ Rm. 301 373-2616

17. Comment Submittal Approval	10. Agreement With Indicated Comment Disposition(s)	11. CLOSED
1/6/2011 Date; Organization Manager (optional) (print and sign)	HL Anastos HAnastos Reviewer/Point of Contact (print and sign); 2-23-11 Date; GP Ritenour Gerald P Ritenour Author/Originator (print and sign)	HL Anastos HAnastos Reviewer/Point of Contact (print and sign); 2-23-11 Date; GP Ritenour Gerald P Ritenour Author/Originator (print and sign)

12. Item	13a. Comments	13b. Basis	13c. Recommendation	14. Reviewer Concurrence Required (Y or N)	15. Disposition (provide justification if **NOT** accepted)	16. Status
1	p. 61: Sulfide results for sample B238H1 were reported incorrectly. Results should be 29.2 ug/g J.	E-mail from JR Ritenour 12/28/2010 @10:28AM	Correct data summary report and electronic data (if needed)	Y	Fixed as recommended	Closed
2	p. 3: Qualifiers in hard copy report (Tank Farms) do not match qualifiers in electronic data (HEIS).	ATL#20100877 Rev. 0; FEAD CP-15383 Version 8	Preferred: Create an Environmental Data Summary Report to show HEIS qualifiers Interim option: Add a cross-reference table that identifies how Tank Farms qualifiers are mapped to HEIS.	Y	Flags converted to HEIS qualifers	Closed
3	p.12: Carbon-14 and Tritium analyses are spiked post-digestion.	ATL#20100877 Rev. 0	Predigest the spikes for carbon-14 and tritium for future sampling events.	Y	H-3 predigest spike can be implemented now. The laboratory is determining if the current procedure and instrumentation will allow a pred-digestion spike for C-14.	Closed
4	DSR and Breakdown Diagram: Bulk Densities are not reported with unique HEIS Ids.	DSR & Geological Report	Unique HEIS Ids (A, B, C appended) have been generated for reporting bulk densities both electronically and in the DSR. Ensure all analyses performed on individuals liners use A, B, C appended or unique numbers and unappended HEIS numbers are used for composite sample results.	Y	Fixed as recommended	Closed

A-6400-090.1 (REV 1)

Table A-1. Geologic descriptions of C Farm Core 7472 samples. Described during sample breakdown by Gary A. Cooke, WA State Professional Geologist, #2785.

Sample ID	Date examined	Description
B236P2A 5–7' S09V001637	12-30-09	Slightly irregular depressions at both ends. Free moisture in bottom cap. Air pocket part way down. ⅔ Tube is mud. Last 50mm sand. Top is sM, slightly gravelly sandy mud, bottom mS, muddy sand. Wet, Mud coated gravel fragments found throughout the core. Excluded one 20mm long fragment. Color: 2.5Y4/2. Acid reactivity moderate to vigorous. Ends of steel tubes are wrapped in tin foil. Bulk Density: Could not estimate Bulk Density.
B236P2B 5–7' S09V001638	12-30-09	Top has a 75mm gap, bottom full. Moist, sM, sandy mud, uniform texture, very slightly cohesive mud contains both silt and clay. Color: 2.5Y5/2 Acid reactivity vigorous. Ends of steel tubes are wrapped in tin foil. Bulk Density: Could not estimate Bulk Density.
B236P5A 10-12' S09V001652	12-30-09	gS, gravelly sand, very slightly moist, excluded 2 fragments 20 & 22 mm long. Poorly sorted, medium to coarse sand. Gravel and coarse sand is angular to sub-round. Salt and pepper texture, trace coarse mica. Color: 2.5Y3/1. Acid reactivity very slight. Ends of steel tubes are wrapped in tin foil. Bulk Density: Could not estimate Bulk Density.
B236P8A 12-14' S09V001654	12-30-09	Tube is full. Top clay and silt, M, mud, bottom half sand. One large gravel fragment excluded 22mm long. Clay slightly cohesive. Sand modernly well sorted, few additional gravel fragments, trace mica. Color: 2.5Y5/2. Acid reactivity moderate. Ends of steel tubes are wrapped in tin foil. Bulk Density: 1.988
B236P8B 12-14' S09V001664	12-30-09	Tube full. (g)mS, slightly gravelly muddy sand. Very slightly moist. Foil fragments in soil picked out. Indistinct layers of sand and mud with scattered fragments gravel. Sub-angular to rounded, two fragments excluded 18 and 20mm long, poorly sorted, trace mica, color: 2.5Y3/2. Acid reactivity: slight to moderate. Ends of steel tubes are wrapped in tin foil. Bulk Density: 2.134
B236P8C 12-14' S09V001665	12-30-09	Tube full. Remove foil flakes. gS, Gravelly sand. Very slightly moist. Coarse fragments 22 and 20 mm excluded. Poorly sorted medium coarse sand, sub-angular to rounded. Trace mica color: 2.5Y3/2 Acid reactivity, slight to moderate. Ends of steel tubes are wrapped in tin foil. Bulk Density: 2.173

Table A-1. Geologic descriptions of C Farm Core 7472 samples. Described during sample breakdown by Gary A. Cooke, WA State Professional Geologist, #2785.

Sample ID	Date examined	Description
B236P8Shoe 12-14' S09V001666	12-30-09	S, sand. Very slightly moist. Trace small gravel, largest 6mm, trace mica, salt and pepper texture, moderately well sorted. Color: 2.5Y5/3. Acid reactivity, slight. Ends of steel tubes are wrapped in tin foil. Bulk Density: Could not estimate Bulk Density.
B238H1A 14-16' S09V001682	12-30-09	Tube full. S, sand. Very slightly moist. Few small gravel fragments, sand is mostly medium grained, moderate well sorted, little or no silt. Slight salt and pepper texture, trace mica. Color: 2.5Y5/3, Acid reactivity, slight to moderate. Ends of steel tubes are wrapped in tin foil. Bulk Density: 1.957
B238H1B 14-16' S09V001683	12-30-09	Tube full. S, sand. Dry, little or no silt, moderately well sorted, medium grained, few gravel fragments, trace mica. Color: 2.5Y6/2. Acid reactivity: slight to moderate. Ends of steel tubes are wrapped in tin foil. Bulk Density: 2.015
B238H1C 14-16' S09V001684	12-30-09	Tube full. S, sand. Very slightly moist, slightly silty, medium grained, coarse mica, angular to sub-angular gravel fragments up to4 mm. Color: 2.5Y6/3. Acid reactivity, moderate. Ends of steel tubes are wrapped in tin foil. Bulk Density: 2.134
B238H4-1 108.5-110.5' S09V001697	01-06-10	Tube full. Texture (lithology) changes from top M, mud to (m)S, slightly muddy sand,. Slightly moist. Moderately cohesive, mud has trace mica and sand. Sand poorly sorted, larger grains angular, trace to no gravel. Color: 2.5Y5/3. Acid reactivity: slight. Tube is labeled with "1" instead of "A". Ends of steel tubes are wrapped in tin foil. Bulk Density: 2.139
B238H4-2 108.5-110.5' S09V001698	01-06-10	Tube full. M, mud, (uniform silt), Slightly moist, trace fine sand, trace mica, slightly cohesive, little or no clay. Color: 2.5Y5/3. Acid reactivity: slight to moderate. Tube is labeled with "2" instead of "B". Ends of steel tubes are wrapped in tin foil. Bulk Density: 2.135
B238H4-3 108.5-110.5' S09V001699	01-06-10	Tube is full. S sand. Very slightly moist, Little or no silt, trace gravel. Coarse sand, angular to sub-angular, moderate to well sorted, slight salt and pepper texture, little or no mica, predominantly quartz sand. Color: 2.5Y5/3. Acid reactivity: slight. Tube is labeled with "3" instead of "C". Ends of steel tubes are wrapped in tin foil. Bulk Density: 2.075

Table A-1. Geologic descriptions of C Farm Core 7472 samples. Described during sample breakdown by Gary A. Cooke, WA State Professional Geologist, #2785.

Sample ID	Date examined	Description
B238H7-1 129-131' S09V001712	01-06-10	Tube full. S, sand. Very slightly moist. Little or no silt or gravel, sand, medium grained, angular to sub-angular, moderately well sorted, dominantly light color grains. Color: 2.5Y6/2. Acid reactivity: slight. Tube is labeled with "1" instead of "A". Ends of steel tubes are wrapped in tin foil. Bulk Density: 1.803
B238H7-2 129-131' S09V001713	01-06-10	Tube full. S, sand. Very slightly moist. Little silt or gravel, medium grained, coarse grains sub-angular to angular, trace mica. Larger grains lighter colored. Color: 2.5Y6/3. Acid reactivity: none. Tube is labeled with "2" instead of "B". Ends of steel tubes are wrapped in tin foil. Bulk Density: 1.980
B238H7-3 129-131' S09V001714	01-06-10	Tube full. S, sand. Very slightly moist, little silt or gravel, medium grained, coarse grains are angular, same as sample above. Color: 2.5Y6/3. Acid reactivity: slight. Tube is labeled with "3" instead of "C". Ends of steel tubes are wrapped in tin foil. Bulk Density: 1.978
B238J0-A 142-144' S09V001727	01-11-10	Tube full. S, sand. Very slightly moist. Coarse grained, moderately well sorted, little or no mud, trace gravel, largest grain 5mm, trace mica, salt and pepper texture, coarse grains are angular to sub-angular. Color: 2.5Y5/2. Acid reactivity: slight to moderate. Ends of steel tubes are wrapped in tin foil. Bulk Density: 2.048
B238J0-B 142-144' S09V001728	01-11-10	Bottom irregular depression 3mm deep, top irregular depression 2mm deep. S, sand. Very slightly moist, coarse to very coarse sand, no mud, trace gravel, largest fragment 15mm, moderately well sorted, angular. Gravel fragments sub-round, trace mica, gravel fragments basalt, salt and pepper texture, Color: 2.5Y5/3 Acid reactivity: slight. Ends of steel tubes are wrapped in tin foil. Bulk Density: Could not estimate
B238J0-C 142-144' S09V001729	01-11-10	Tube is full. S, sand. Slightly moist, trace mud, no gravel, medium to coarse grained sand, salt and pepper texture, clay occurs as thin lenses, moderately cohesive, crumbles easily, trace mica. Color: 2.5Y5/2 Acid reactivity: moderate. Ends of steel tubes are wrapped in tin foil. Bulk Density: 2.171
B238J3-A 158-160' S09V001742	01-18-10	Tube is full. S, sand. Very slightly moist, trace gravel (<5%), largest fragments 5mm, angular to sub-angular, salt and pepper texture, trace mica, medium to coarse grained sand, moderate to well sorted, some coarse mica >2mm. Color: 2.5Y6/3. Acid reactivity: very slight. Bulk Density: 2.086

Table A-1. Geologic descriptions of C Farm Core 7472 samples. Described during sample breakdown by Gary A. Cooke, WA State Professional Geologist, #2785.

Sample ID	Date examined	Description
B238J3-B 158-160' S09V001743	01-18-10	Tube is full. (g)S, slightly gravelly sand. Slightly moist. Largest grains 6mm, angular to sub-angular, salt and pepper texture, medium to coarse grained sand is moderately well sorted, little or no clay, trace mica. Color: 2.5Y5/3. Acid reactivity: very slight. Bulk Density: 2.212
B238J3-C 158-160' S09V001744	01-18-10	Tube is full. S, sand. Moist. <5% gravel, coarsest grains, 3mm, medium to coarse grained, angular to sub-angular, moderate to well sorted, trace mica, salt and pepper texture. Color: 2.5Y5/2. Acid reactivity: not recorded. Bulk Density: 2.274
B238J6-A 195-197' S09V001757	01-18-10	Tube is ⅓ empty on bottom, top is full. (g)S, slightly gravelly sand. Slightly moist. Largest fragment 11mm, angular to sub-angular gravel and coarse sand, moderate to well sorted, salt and pepper texture, no mud Color: 2.5Y5/3 Acid reactivity: slight. Bulk Density: Could not estimate Bulk Density.
B238J6-B 195–197' S09V001758	01-18-10	Bulging top 3mm, bottom irregular gap 3-5mm. (g)S, gravelly sand. Slightly moist. Largest particle 8mm, angular to sub-round, medium to coarse sand, fine gravel, salt and pepper texture, trace biotite mica. Color: 2.5Y5/3. Acid reactivity: slight. Bulk Density: 2.173
B238J6-C 195-197' S09V001759	01-18-10	Bottom 2-3mm depression, top 2mm depression, (g)S, slightly gravelly sand. Slightly moist. Largest fragment 7mm, medium to coarse grain, moderate well sorted, angular to sub-angular, salt and pepper texture, no mud, trace mica. Color: 2.5Y5/2. Acid reactivity: slight to moderate. Bulk Density: Could not estimate Bulk Density.
B238K3-A 216-218' S10V000077	01-20-10	Top is full, slight irregular 3mm depression on bottom. gS, gravelly sand. Very slightly moist. Largest partial 25mm, excluded. Two other particles >10mm also excluded. Medium sand with coarse to fine gravel, coarsest gravel light colored, angular to sub-rounded, salt and pepper texture, trace mica, sand is poorly sorted, trace mud. Color: 2.5Y5/3. Acid reactivity: moderate. Bulk Density: Could not estimate Bulk Density.

Table A-1. Geologic descriptions of C Farm Core 7472 samples. Described during sample breakdown by Gary A. Cooke, WA State Professional Geologist, #2785.

Sample ID	Date examined	Description
B238K3-B 216-218' S10V000078	01-20-10	Tube is full. gS, gravelly sand. Very slightly moist. Largest fragment 25mm excluded, excluded four greater then 12mm. Poorly sorted, angular to sub-rounded coarse fragments, salt and pepper texture, mostly light colors, broken fragments of large chert, some caliche-coated gravel, trace mica, trace mud. Color: 2.5Y6/3. Acid reactivity: slight to moderate. Bulk Density: 2.153
B238K3-C 216-218' S10V000079	01-20-10	Irregular depression 5mm deep on bottom, 125mm deep on top. gS, gravelly sand. Moist. Some cohesive clay clasts. Poorly sorted gravelly sand with minor mud, sub-angular to sub-rounded gravel to coarse sand, trace mica, rock fragments mostly dark. Color: 2.5Y4/2. Acid reactivity: slight. Bulk Density: Could not estimate Bulk Density.
B236N5 Surface S10V001613	04-19-10	(gm)S, slightly gravelly slightly muddy sand. Very slightly moist. Gravel is rounded to sub-rounded, predominantly basalt fragments, largest particle 16mm long, excluded two pieces, trace mica. Color: 2.5Y5/3 Acid reactivity: Slight to moderate. Pours easily back into jar. Bulk Density: Could not estimate Bulk Density.
B236N8 Duplicate S10V001625	04-19-10	(gm)S, slightly gravelly slightly muddy sand. Very slightly moist, gravel rounded to sub-rounded. Largest fragment 15mm long (excluded two fragments) Dominantly basalt fragments, uniform color and texture, trace mica, chert, milky white (quartz) visible in coarse sand, very fine to fine gravel, some of milky white fragments are caliche. Color: 2.5Y5/3 Acid reactivity: moderate. Bulk Density: Could not estimate Bulk Density.

Munsell colors were determined using the 2.5Y color card

C Farm C7472, Photographic Log and Scanned Geologic Descriptions 10/19/2010

Figure A-1 Sample B236P2 Core A.

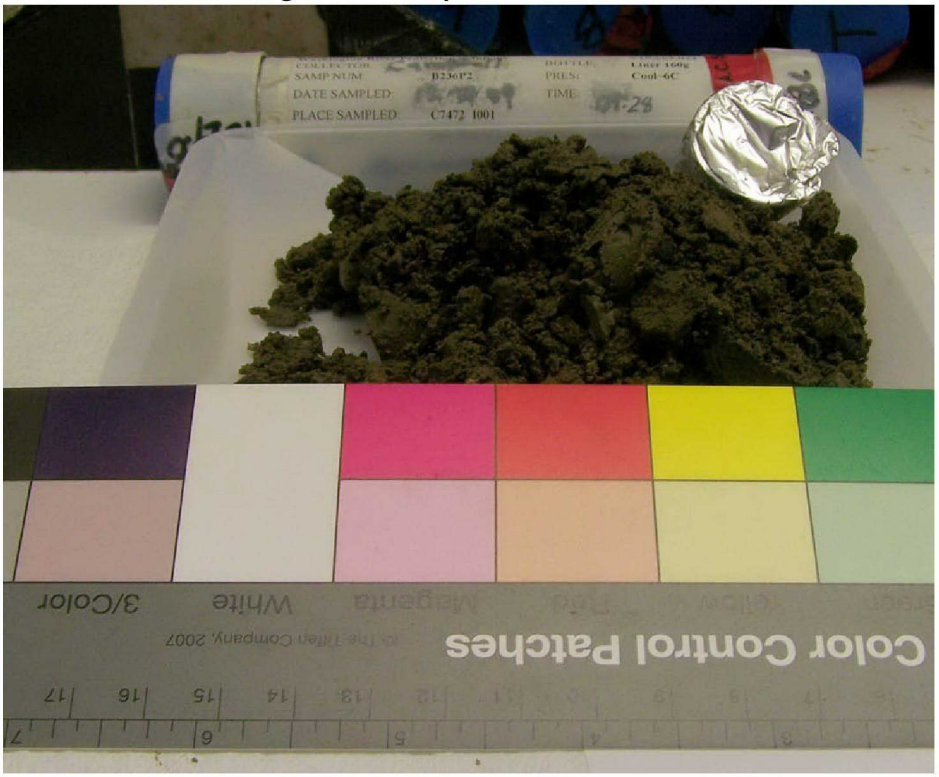


Figure A-2 Sample B236P2 Core B.

Figure A-3 Sample B236P5 Core A.

Figure A-4 Sample B236P8 Core A.

Figure A-5 Sample B236P8 Core B.

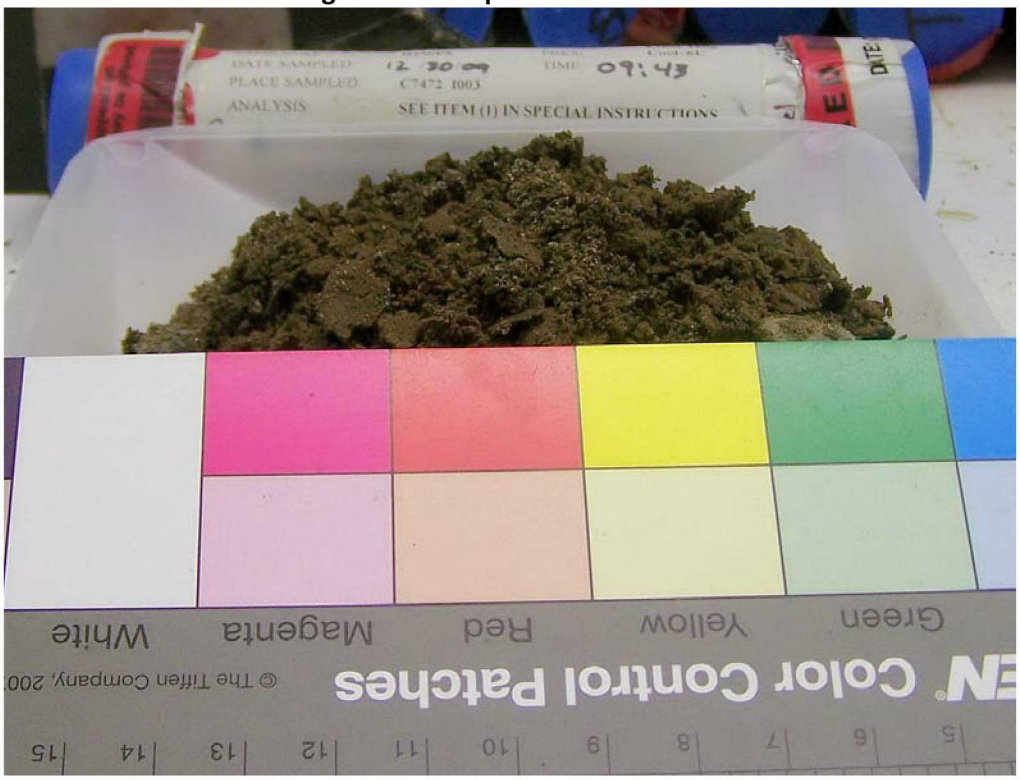


Figure A-6 Sample B236P8 Core C.

Figure A-7 Sample B236P8 Shoe.

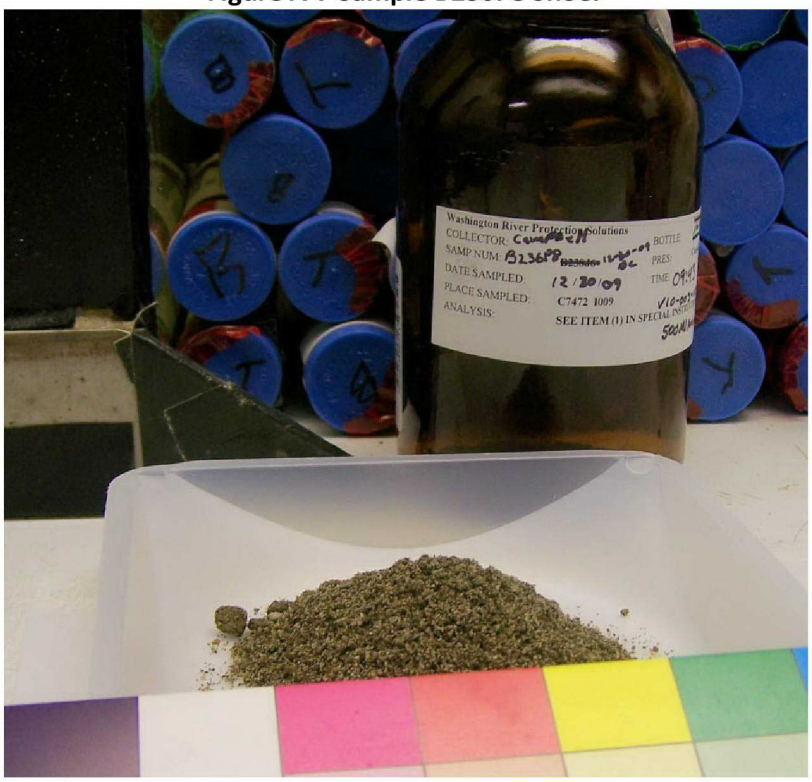


Figure A-8 Sample B238H1 Core A.

Figure A-9 Sample B238H1 Core B.

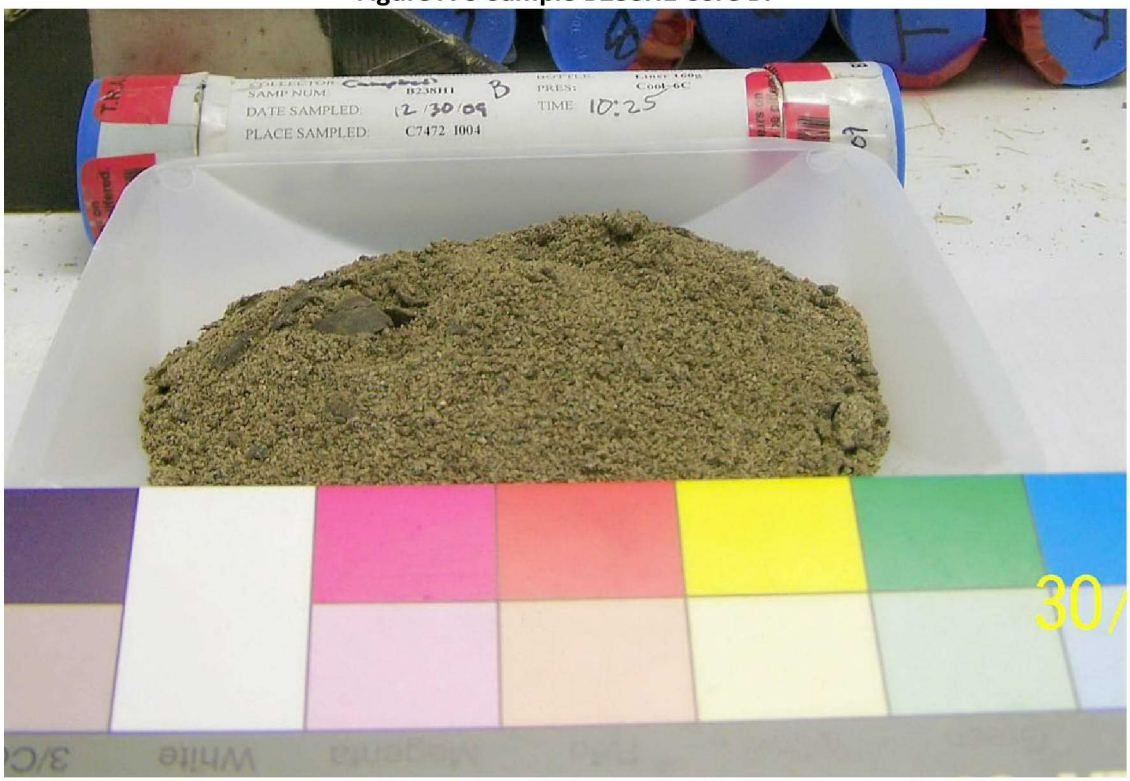


Figure A-10 Sample B238H1 Core C

Figure A-11 Sample B238H4 Core 1.

Figure A-12 Sample B238H4 Core 2.

Figure A-13 Sample B238H4 Core 3.

Figure A-14 Sample B238H7 Core 1.

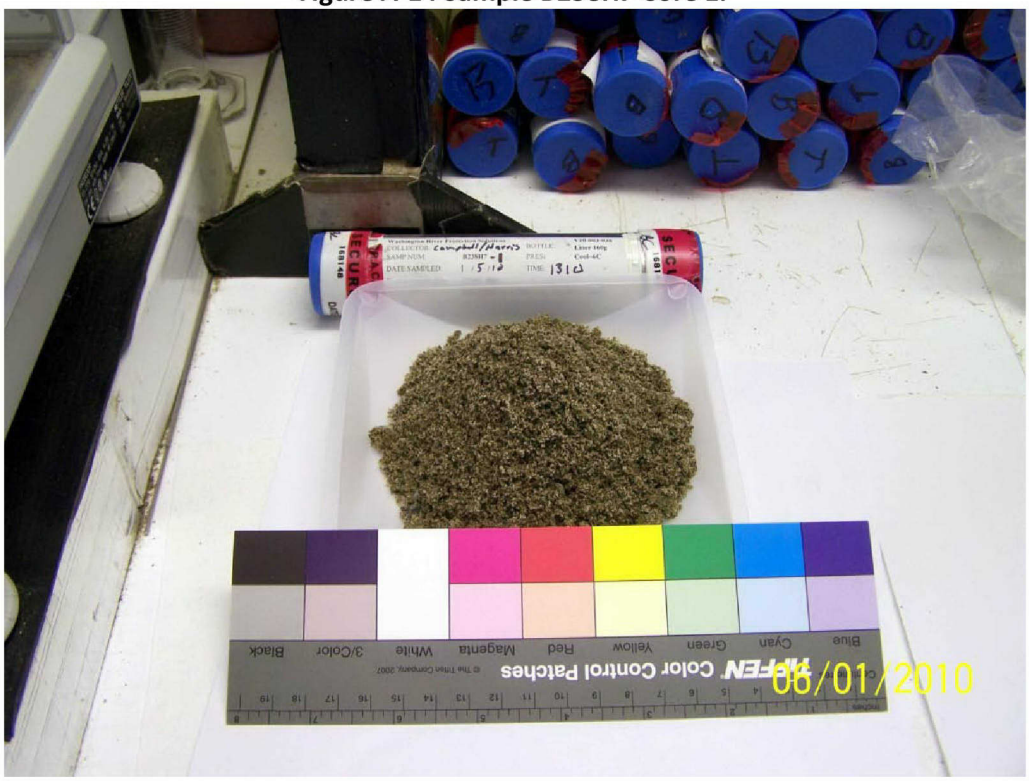


Figure A-15 Sample B238H7 Core 2.

Figure A-16 Sample B238H7 Core 3.

Figure A-17 Sample B238J0 Core A.

Figure A-18 Sample B238J0 Core B.

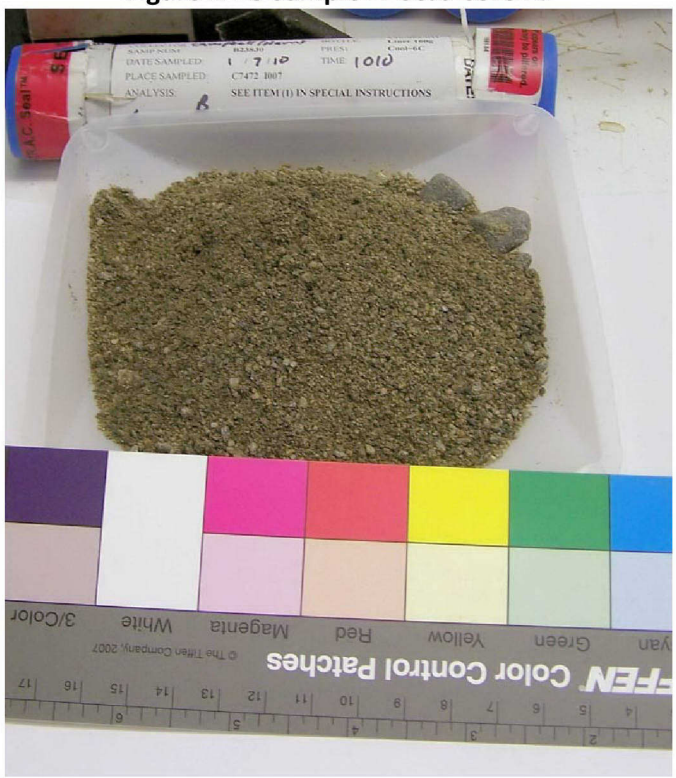


Figure A-19 Sample B238J0 Core C.

Figure A-20 Sample B238J3 Core A.

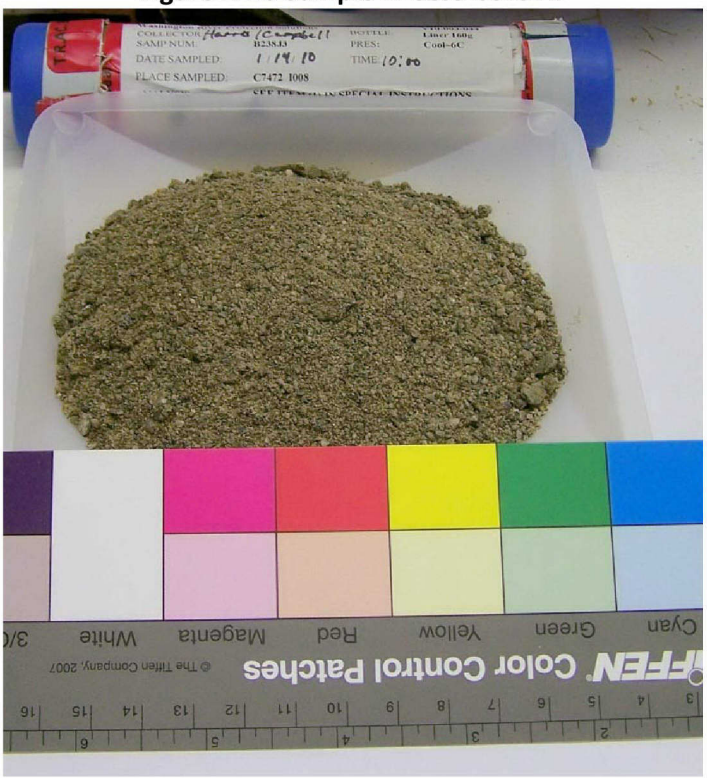


Figure A-21 Sample B238J3 Core B.

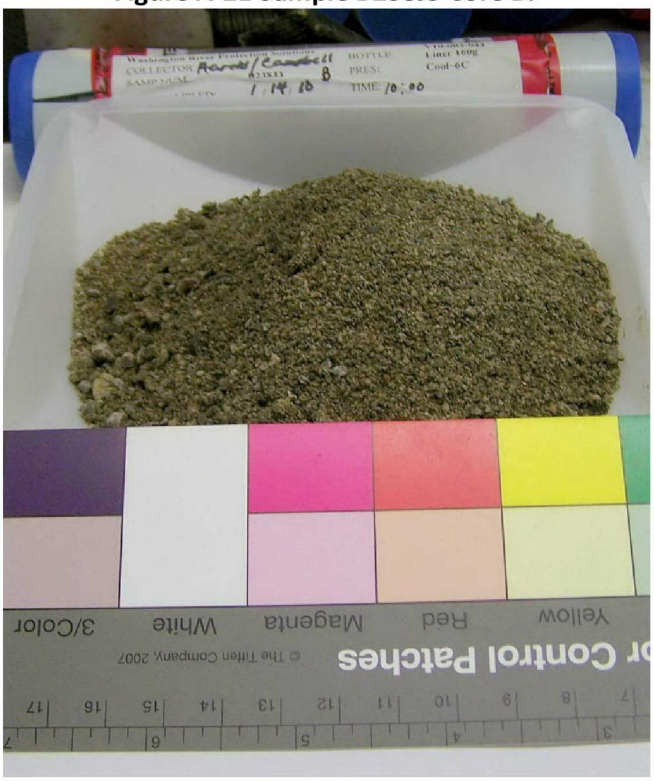


Figure A-22 Sample B238J3 Core C.

Figure A-23 Sample B238J6 Core A.

Figure A-24 Sample B238J6 Core B.

Figure A-25 Sample B238J6 Core C.

Figure A-26 Sample B238K3 Core A.

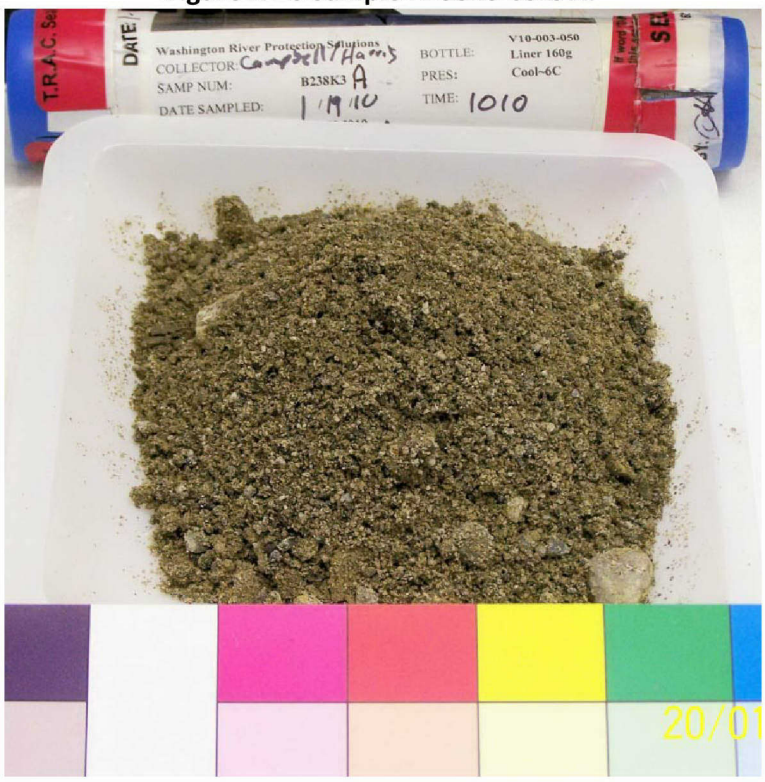


Figure A-27 Sample B238K3 Core B.

Figure A-28 Sample B238K3 Core C.

Figure A-29 Sample B236N5 Surface.

Figure A-30 Sample B236N8 Surface Duplicate.

REVIEW COMMENT RECORD (RCR)	1. Date 2/17/2011 (rev. 1)	2. Review No.
	3. Project No.	Page 2 of 2

12. Item	13a. Comments	13b. Basis	13c. Recommendation	14. Reviewer Concurrence Required (Y or N)	15. Disposition (provide justification if **NOT** accepted)	16. Status
5	DSR: Glycolate and Formate are being reported with incorrect HEIS CON_IDs.	ATL#20100877 Rev. 0; and HEIS	Report with the pseudo-CAS #s: Glycolate = GLYCOLATE and Formate = FORMATE	Y	Fixed as recommended	Closed
6	DSR: The laboratory is reporting 3&4 Methylphenol with an incorrect CAS#.	CAS registry; HEIS	Replace 108-39-4a with the correct CAS# 65794-96-9	Y	Fixed as recommended	Closed
7	DSR: The laboratory is reporting Sulfide with an incorrect CAS#.	CAS registry; HEIS	Replace 18496-25-8 with the correct CAS# 12597-04-5	Y	Fixed as recommended	Closed
8	COC V10-003-035 does not have a relinquished time listed.	COC Review	Document discrepancy on RCR.	N	N/A	CLOSED
9	COC V10-003-049 does not list an Actual Sample Depth.	COC Review	Document discrepancy on RCR.	N	N/A	CLOSED
10	COC V10-003-027 does not have a relinquished time listed.	COC Review	Document discrepancy on RCR.	N	N/A	CLOSED
11	Duplicate results are reported for B23KT4.	DSR Review	Omit duplicate data or correct, if necessary.	Y	Fixed as recommended	Closed

A-6400-090.1 (REV 1)

VADOSE ZONE CHARACTERIZATION CHANGE NOTICE

Document: RPP-PLAN-40564 Rev 2 **Change Number:** WMAC-003 **ECN to TSAP Required?** Y / N

Requestor: Andrew M. Templeton **Date:** 4-12-10

Original Requirement: Listed in Table 5-1, titled *Equipment Blank Sample Preservation, Container and Holding Time Guidelines*.

Samples Impacted: Equipment Blanks collected in C Farm.

Proposed Change:
Add Ethylene Glycol and monobutylphosphate/dibutylphosphate analysis, change the Container/Volume requirements for TPH Gasoline, PCBs and Pesticides and change the Preservation requirements for TPH Gasoline by adding "Cool ≤6 °C" in Table 5-1, titled *Equipment Blank Sample Preservation, Container and Holding Time Guidelines* as shown below:

Parameter/ Analysis	Reference Method	Container/ Volume	Preservation	Holding Time
TPH Gasoline	WTPH- Gasoline	G 3X 40 ml VOA Vial	HCl to pH <2 Cool ≤6 °C	14 Days
PCBs	8082 PCB GC	aG 3X 1L	Cool ≤6 °C	None
Pesticides	8081 Pest. GC	aG 2X 1L	Cool ≤6 °C	14/40 Days
Ethylene Glycol	8015B	G 3X 40 ml VOA Vial	Cool ≤6 °C	14 Days
MBP/DBP	9056 (modified)	P/G 1X 125 ml	Cool ≤6 °C	14 Days

Reason for Change: Consistent with HASQARD requirement, Volume 2, section 5-1, indicates *equipment blanks should be analyzed for the same analytes as sample using that equipment* in order to ensure that the equipment has been properly cleaned.

It should be noted though that the samples collected are analyzed for percent water, bulk density, carbonate and bicarbonate and PCB congeners. These analyses are not being requested for the equipment blanks.

The additional sample volume was requested by the off-site laboratory to complete the required analyses.

Date Change Effective: 3-26-10

Schedule Impact: None

Authorization:
Vadose Zone POC (Print/Sign): A.M. Templeton **Date:** 5-20-10

Vadose Zone Quality Assurance (Print/Sign): K.J. Dunbar **Date:** 5-20-10

222-S Project Coordinator (Print/Sign): S.G. Mckinney **Date:** 5-24-10

ATL Project Coordinator (Print/Sign): G.P. Ritenour **Date:** 5-24-10

Other (Optional, Print/Sign): **Date:**

cc: S. J. Eberlein, K. M. Hall, Dana Stewart, Dave Myers, Penny Berlin, Eric Wyse, Mike Connelly

VADOSE ZONE
CHARACTERIZATION CHANGE NOTICE

Document: RPP-PLAN-40564 Rev 2 **Change Number:** WMAC-004 **ECN to TSAP Required?** Y / N

Requestor: Andrew M. Templeton **Date:** 4-22-10

Original Requirement: At each sample depth, three liner samples and one shoe sample are targeted to be taken. Good recovery is required to allow analysis of all requested analyses.

Samples Impacted: Samples collected in C Farm at site F, location C7472, 10-12 ft. bgs.

Proposed Change: Due to poor sample recovery from the 10-12 ft. bgs interval in C-Farm at the F location (C7472), an additional sample was collected from 12-14 ft. bgs. To ensure that there is enough material to do all the analysis, the material from these two intervals will be composited for analysis. The composite will consist of liner A from the 10-12 foot interval, and liners A, B, and C and the shoe from the 12-14 foot interval. The samples for volatile organic compound (VOC) analysis were collected from the shoe at the 10-12 ft. bgs interval.

Reason for Change: Poor sample recovery.

Date Change Effective: 12-29-09

Schedule Impact: None

Authorization:

Vadose Zone POC (Print/Sign): A.M. Templeton **Date:** 5-11-10

Vadose Zone Quality Assurance (Print/Sign): K.J. Dunbar **Date:** 5-11-10

222-S Project Coordinator (Print/Sign): S.G. Mckinney **Date:** 5-13-10

ATL Project Coordinator (Print/Sign): G.P. Ritenour **Date:** 5-13-10

Other (Optional, Print/Sign): **Date:**

cc: S. J. Eberlein, K. M. Hall, Dana Stewart, Dave Myers, Penny Berlin, Eric Wyse

VADOSE ZONE
CHARACTERIZATION CHANGE NOTICE

Document: RPP-PLAN-40564 Rev 2 **Change Number:** WMAC-005 **ECN to TSAP Required?** Y / N

Requestor: Andrew M. Templeton **Date:** 4-22-10

Original Requirement: At each sample depth, three liner samples and one shoe sample are targeted to be taken. Good recovery is required to allow analysis of all requested analyses.

Samples Impacted: Samples collected in C Farm at site L2, location 7670, 10-12 ft bgs.

Proposed Change: Due to poor sample recovery from the 10-12 ft. bgs interval in C-Farm at the L2 location, an additional sample was collected from 12-14 ft. bgs. To ensure that we have enough material to do all the analysis, a composite will be prepared from Liner A from the 10-12 ft. bgs interval, the shoe from the 12-14 ft. bgs interval and Liner A from the 12-14 ft. bgs interval. The samples for volatile organic compound (VOC) analysis were collected from the shoe at the 10-12 ft. bgs interval.

Reason for Change: Poor sample recovery.

Date Change Effective: 4-22-10

Schedule Impact: None

Authorization:

Vadose Zone POC (Print/Sign): A.M. Templeton **Date:** 5-11-10

Vadose Zone Quality Assurance (Print/Sign): K.J. Dunbar **Date:** 5-11-10

222-S Project Coordinator (Print/Sign): S.G. Mckinney **Date:** 5-17-10

ATL Project Coordinator (Print/Sign): G.P. Ritenour **Date:** 5-17-10

Other (Optional, Print/Sign): **Date:**

cc: S. J. Eberlein, K. M. Hall, Dana Stewart, Dave Myers, Penny Berlin, Eric Wyse

VADOSE ZONE
CHARACTERIZATION CHANGE NOTICE

Document: RPP-PLAN-40564 Rev 2 **Change Number:** WMAC-007 **ECN to TSAP Required?** Y / N

Requestor: Andrew M. Templeton **Date:** 5-11-10

Original Requirement: Analyze for Tc-99 using an acid digestion.

Samples Impacted: Samples collected in C Farm in FY10.

Proposed Change: In addition to the acid digestion used for ICPMS Tc-99 analysis a vadose water digestion will be prepared and analyzed for ICPMS Tc-99 for all C Farm FY10 samples not previously designated for this water digestion analysis (C7472 I007-I010).

Reason for Change: Both preparation methods for technetium-99 are being requested in order to have consistent data analyses (i.e., previous technetium-99 analysis by PNNL was performed on both preparation methods). Both methods allow for calculating various factors such as the K_d coefficient, which can be used to help determine vertical migration.

Date Change Effective: 4-23-10

Schedule Impact: None

Authorization:

Vadose Zone POC (Print/Sign): A.M. Templeton **Date:** 5-20-10

Vadose Zone Quality Assurance (Print/Sign): K.J. Dunbar **Date:** 5-20-10

222-S Project Coordinator (Print/Sign): S.G. Mckinney **Date:** 5-24-10

ATL Project Coordinator (Print/Sign): G.P. Ritenour **Date:** 5-24-10

Other (Optional, Print/Sign): **Date:**

cc: S. J. Eberlein, K. M. Hall, Dana Stewart, Dave Myers, Penny Berlin, Eric Wyse, Mike Connelly, Harold Sydnor

Ritenour, Gerald P

From: McKinney, Steve G
Sent: Wednesday, July 07, 2010 12:10 PM
To: Tabor, Cynthia L
Cc: Templeton, Andrew M; Ritenour, Gerald P; Berlin, Penelope C
Subject: FW: Confirming our Telephone Conversation

From: McKinney, Steve G
Sent: Wednesday, February 18, 2009 9:11 AM
To: Hansen, Daniel R; Baker, Harold L
Cc: Ritenour, Gerald P
Subject: FW: Confirming our Telephone Conversation

We will still have the secondary's in omni, just not reported in the HEISS upload if they are a less than....

From: Connelly, Michael
Sent: Wednesday, February 18, 2009 9:08 AM
To: McKinney, Steve G
Subject: FW: Confirming our Telephone Conversation

From: Barnes, Michael (ECY) [mailto:miba461@ecy.wa.gov]
Sent: Tuesday, February 17, 2009 2:31 PM
To: Connelly, Michael
Subject: RE: Confirming our Telephone Conversation

Both are correct…….

Mike

From: Connelly, Michael [mailto:Michael_Connelly@RL.gov]
Sent: Tuesday, February 17, 2009 2:21 PM
To: Barnes, Michael (ECY)
Subject: Confirming our Telephone Conversation

Mike

I just want to confirm our discussion earlier today

1) With regard to secondary constituents/compounds, they will only be reported if the results are above detection limits.
2) With regard to methanol, because this is analyte is often found due to laboratory contamination, it will be dropped from the analysis

Let me know if this is the correct or if you need me to say something else.

Ritenour, Gerald P

From: McKinney, Steve G
Sent: Wednesday, April 21, 2010 2:19 PM
To: Frye, Jann M; Ritenour, Gerald P
Cc: Prilucik, John R
Subject: FW: Cancel Alkalinity analysis for C-Farm Equipment Blanks

---

From: Templeton, Andrew M
Sent: Wednesday, April 21, 2010 2:00 PM
To: McKinney, Steve G
Subject: Cancel Alkalinity analysis for C-Farm Equipment Blanks

Please cancel the alkalinity analysis on the equipment blanks for C-Farm, they are not required.

Thanks!

Andrew

Ritenour, Gerald P

From: Ritenour, Gerald P
Sent: Tuesday, April 27, 2010 8:51 AM
To: McKinney, Steve G
Cc: Wyse, Eric J; Hansen, Daniel R
Subject: C Farm VOA samples missed holding times

Steve,
We missed the holding times for 3 of the 4 C Farm Surface samples received on 4/15/2010. This was due to the samples bring improperly stored in a refrigerator instead of a freezer for approximately 72 hours. Per SW846 5035A, this reduced the holding time to 48 hr. Sample analysis was completed on 4/22/2010. Additional details will be provide in Lessons Learned. If you have any questions or need additional information please let me know.
Thanks, JR

Gerald "JR" Ritenour
Project Manager
ATL International, Inc.
(509) 372-2742 office
(509) 438-8837 cell
gerald_p_ritenour@rl.gov

Ritenour, Gerald P

From: McKinney, Steve G
Sent: Thursday, June 11, 2009 12:07 PM
To: Ritenour, Gerald P
Cc: Dunbar, Kathryn J
Subject: FW: QA interpretation

We need a set of QC on a "per hole" basis – QC for C6400, and QC for C6392.

Thanks.

From: Dunbar, Kathryn J
Sent: Thursday, June 11, 2009 11:51 AM
To: McKinney, Steve G
Subject: RE: QA interpretation

Kathi Dunbar
Quality Assurance
(509) 376-2002 Office (S7-66)
(509) 438-7887 Cell
Office (2704HV-200E)
Kathryn_J_Dunbar@rl.gov
washington river protection solutions

Please consider the environment before printing this email

the requirement is for 1 spike/dup or spike/spike dup per 20 samples- does it meet that?

From: McKinney, Steve G
Sent: Thursday, June 11, 2009 11:05 AM
To: Dunbar, Kathryn J
Cc: Connelly, Michael
Subject: QA interpretation

Hi Kathy.

ATL has asked for a clarification on QC frequency. Initially, for C Farm, we planned on doing a set of QC on a per location basis. This more than met the requirement for 1 spike/dup or spike/spike dup per 20 samples. However, as an example, with the re-sampling we have to do based on poor recovery during initial sampling, C6400 is the resample for C6392. Can we consider C6400 and C6392 the same location, as least for QC…?

Let me know.

Thanks.

From: Anastos, Heather L
To: Ritenour, Gerald P
Cc: McKinney, Steve G
Subject: RE: ICP Holding Time Vs Data Quality
Date: Friday, October 08, 2010 8:06:56 AM

Hi, JR –

The write up looks good. Please make sure you mention the missed RDL for Se, and add a note that some of the metals where reported from ICP/MS, not ICP as requested.

Thank you!
Heather Anastos
Chemist, Closure & Corrective Measures
(509) 373-2616
1200 Jadwin/301

washington river protection solutions

From: Ritenour, Gerald P
Sent: Tuesday, October 05, 2010 10:41 AM
To: Anastos, Heather L
Cc: McKinney, Steve G
Subject: RE: ICP Holding Time Vs Data Quality

Additional notes:
All RDL were met except for Se
All TAL were met except for Be, Cu, Zn

From: Ritenour, Gerald P
Sent: Tuesday, October 05, 2010 10:31 AM
To: Anastos, Heather L
Cc: McKinney, Steve G
Subject: RE: ICP Holding Time Vs Data Quality

Heather,
Attached are the result from the batches with the small aliquot. Batch 19868 is the ICPAES, 20170 is the ICPMS for Tl and Sb, and 20005 is the ICPMS for As, Cd, Pb, Ni, Se, and Ag. Below is the write-up from the narrative. Let me know if this will work.

Batch 19868: The interference check standards ICSA and ISAB had results below the quantitation limits for europium and neodymium. This could indicate that spectral interference was occurring. The apparent positive interference was great enough for europium that the results were not reported due to the high probability that they were the result of interference. The addition to the neodymium signal appeared relatively small based on the ICSA and ICSAB result, and neodymium was reported in all samples and was "J" flagged as estimated. Low levels of aluminum 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. Low levels of cerium and neodymium were detected in

the preparation blank at great than 5% of the sample results. These results have been flagged with a "B". Since all results for cerium and neodymium were below the quantitation level reanalysis was not required. The CCBs also had the same low level of neodymium. The RPD for strontium exceeded the 30% requirement in the SAP at 40%. The sample was reanalyzed with an acceptable RPD, however this analysis was pass the SW846 holding time of six month. The client instructed the laboratory to report the results for the analysis preformed within the holding. Table 1 compares these results. The laboratory believes the cause of the RPD failure was due to sample inhomogeneity, which was partially the result of using too small a sample aliquot. The reanalysis used a larger aliquot and the strontium passed however, two other elements fail their duplicate RPD in this reanalysis.

Table 1 Strontium Results

Batch 19868 Sample Result	*Batch 19686 Duplicate Result*	*Reanalysis Batch Sample Result*	*Reanalysis Batch Duplicate Result*
26.5 mg/g	39.4 mg/g	27.8 mg/g	27.0 mg/g

The RPD for potassium and lithium exceed the 30% requirement in the SAP and FSAP, however since the results for these elements were below the quantitation limit this criterion does not apply. The MS recoveries for aluminum, calcium, iron, magnesium, silicone, and titanium exceed 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 and potassium exceeded the ±25%. All sample results in this batch for sodium and potassium have been flagged with "b". The laboratory believes these exceedencies may have also been caused by sample inhomogeneity. These MS recoveries for sodium and potassium were acceptable in the reanalysis batch, but two other elements were not.

Batch 20005: The duplicate RPD for nickel exceeded the 30% requirement at 61%, and the associated results have been flagged with a "c." The sample was reanalyzed with an acceptable RPD, however this analysis was pass the SW846 holding time of six month. The client instructed the laboratory to report the results for the analysis preformed within the holding. Table 3 compares these results. The laboratory believes the cause of the RPD failure was due to sample inhomogeneity, which was partially the result of by using too small a sample aliquot. The reanalysis used a large aliquot and the nickel passed.

Table 3 Nickel Results

Batch 20005 Sample Result	*Batch 20005 Duplicate Result*	*Reanalysis Batch Sample Result*	*Reanalysis Batch Duplicate Result*
7.51 mg/g	14.1 mg/g	5.73 mg/g	5.54 mg/g

The RPD for lead exceeded the 30% requirement in the SAP and FSAP, however since the result for this element was below the quantitation limit this criterion does not apply.

Batch 20170: Thallium was detect in the preparation blank below the quantitation level and was detected at a similar level in the samples. The sample results have been flagged with a "B". Since all results were below the quantitation level reanalysis is not required. The LLSs for thallium exceed to ±30 requirement a 160% and 176%. This could indicate a high bias. However, since all sample results were below the quantitation limit the data quality was not affected.

Thanks, JR

P.S. - I am working at Snyder today 375-4200 ext 247

From: Anastos, Heather L
Sent: Monday, October 04, 2010 7:28 AM
To: Ritenour, Gerald P; McKinney, Steve G
Cc: Dunbar, Kathryn J; Templeton, Andrew M
Subject: RE: ICP Holding Time Vs Data Quality

Hi, JR –

I talked with the project…but we need a bit more detail.

1. Were the metals non-detects below the RDL? If so, please report the data with the lower RDLs (outside of holding time).
2. If the original results were detects (even "J" flagged), we may be able to accept the first set of data – we'd like to see it first, though. If this is case, please send the sample results for review.

My guess is that #1 applies – please confirm.

Also, what actions are being taken by the lab taking to ensure holding times will be met with acceptable quality control in the future? I'm concerned that we aren't able to process a reanalysis for metals within the six month holding time – this needs to be addressed for vadose work.

Thanks,
Heather Anastos
Chemist, Closure & Corrective Measures
(509) 373-2616
1200 Jadwin/301

washington river protection solutions

From: Ritenour, Gerald P
Sent: Wednesday, September 29, 2010 4:28 PM
To: Anastos, Heather L; McKinney, Steve G
Subject: RE: ICP Holding Time Vs Data Quality

Project: C Farm 2010, Core hole C7472

Ni RDL = 3, Sample DL = 17

Co RDL=2, Sample DL = 8.6
Cr RDL=4.2, Sample DL = 4.1 to 4.6
I cannot see the ICP lead. I will need to reload the data. Roxie is looking over the Pb, Co, Cr on the ICPMS to see if they are ok

---

From: Anastos, Heather L
Sent: Wednesday, September 29, 2010 4:15 PM
To: Ritenour, Gerald P; McKinney, Steve G
Subject: RE: ICP Holding Time Vs Data Quality

Hi, JR –

Which sampling event is this for? I will check with the project lead to see which data would be best. Also, how high are the RDLs (missed by 2 or 2000?)?

Heather Anastos
Chemist, Closure & Corrective Measures
(509) 373-2616
1200 Jadwin/301

washington river protection solutions

From: Ritenour, Gerald P
Sent: Wednesday, September 29, 2010 3:57 PM
To: Anastos, Heather L; McKinney, Steve G
Subject: ICP Holding Time Vs Data Quality

Steve, Heather,
I have at bit of a situation that I need client guidance on. I have a batch each of ICP and ICPMS metals that were run using too small an aliquot, resulting in missed RDLs for ICP and a high RPD 61% for Ni on ICP/MS. I have other batches that meet the requirements for RDLs and RPD, but are outside the 6 month holding time. For now the only issue is that 3 Ni results will carry "c" or be report outside the holding or with "J" flagged results above the RDL. Normally I would favor reporting the better data, but given the sensitive of holding time for the Vadose program I'm not sure it's the way to go. What is your recommendation. Holding times were about 14 weeks over. There may be similar issues with Cr, Co, and Pb. I am still evaluation the data.

Thanks, JR

From: Ritenour, Gerald P
To: McKinney, Steve G
Subject: RE: C Farm C7472 Miss Holding Times Tc-99
Date: Monday, October 04, 2010 9:19:00 AM

Steve,
Three samples, B236P2 (I001), B23KT4 (I002+3) and B238H1 (I004) exceeded the 6 month holding time by approximately 2 weeks for the ICPMS Tc-99 Vadose water digest. I didn't catch until today. These were the Vadose water digest analyses. This analysis was added to the project on 5-20-10, over 5 months after sampling began. The instruction were to not proceed with this analysis until after the all analysis in the SAP were complete. This is why the analysis missed the holding time. I am not anticipating additional missed HT for this analysis, however by the very nature of waiting until all other analysis are complete this could happen again, give long delay in sampling a core hole (4.5 month in this case).
JR

From: Ritenour, Gerald P
To: McKinney, Steve G
Cc: Anastos, Heather L; Kuhl-Klinger, Kristine J; Wyse, Eric J; Finn, Cheryl R
Subject: Missing Holding times for C Farm C7472 Tritium analysis
Date: Tuesday, October 12, 2010 1:58:00 PM

Steve, Heather
Based on the FSAP the lab was not aware of the 6 month holding time requirement for Radiochemistry that was in the SAP. Laboratory does not believe this holding time excursion should affect the results.

Sample	Method	Sample Date Time	Received Date	Analysis Date	**Missed Holding time**	Days
S10V001156	TRITIUM-LARGE VOLUME	12/29/2009 09:28	12/29/2009 13:20	06/30/2010 11:25	**Y**	183.081
S10V001157	TRITIUM-LARGE VOLUME	12/29/2009 11:40	12/29/2009 13:20	06/30/2010 11:25	**Y**	182.99
S10V001158	TRITIUM-LARGE VOLUME	12/30/2009 10:25	12/30/2009 12:00	06/30/2010 11:25	**Y**	182.042

Attachment 9

RECEIPT PAPERWORK

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST DPR 4-1-10	LO-090-101 Rev EE-0

Date Samples Received: ~~2~~ 3/31/10 Group #: 20090376

Number of Samples: ~~25~~ 1 sample, 25 bottles

Sample Custodian: C. Edwards

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	Y		
RSR provided?		NA	
Verify GKI is complete	Y		On file
Check that outer custody seal is intact, if present	Y		
Record cooler temperature in centigrade, as appropriate	Y		☐ Check if no cooler and/or no ice 4°C
Samples are intact and in good condition	Y		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	Y		
• Date and time of sampling	Y		
• Sampling location or origin	Y		
• Container type, size, and number	Y		
• Analysis request is clear	Y		
• Signature of persons relinquishing and receiving samples	Y		
• Date and/or time of sample custody exchange	Y		
Verify that sample numbers on containers match the COC and/or RSA	Y		
Samples stored properly (e.g., refrigeration)	Y		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials DPR Date 3/31/10

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 0)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-014	PAGE 1 OF 2

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.
C7472 Equipment Blank	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	n/A	n/A	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations	n/A	n/A PCB 12/10/09

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C	Cool~4C	~~HCl to pH~~ <2/Cool~4C (BC 3-15-10)	HCl to pH <2/Cool~4C	Cool~4C	Cool~4C	HNO3 to pH <2	H2SO4 to pH <2 Cool~6C	Cool~4C	ZnAc+NaOH to pH > 9/Cool~6C
TYPE OF CONTAINER	aGs*	aG	aG	aGs*	aG	aG	G/P	G/P	G/P	G/P
NO. OF CONTAINER(S)	3	1	1	3	2	3	1	1	1	1
VOLUME	40mL	1000mL	1000mL	40mL	1000mL	1000mL	500mL	250mL	500mL	500mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);	Semi-VOA - 8270 Complete (TF);	~~TPH-Diesel Range - WTPH-Dx~~ BC 3-15-10 TPH Diesel Range WTPH-G	TPH-Gasoline Range - WTPH-G;	Pesticides - 8081 (TF);	PCBs - 8082;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	300.7_AMMONIUM (TF);	IC Anions - 9056; pH (Water) - 9040 (TF);	Sulfide - 9215;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B238D8	WATER	3-31-10	~~0945~~ BC 3-31-10 0945	S09V001597	S09V001598	S09V001599	S09V001606	S09V001608	S09V001607	S09V001599	S09V001605	S09V001602	S09V001603

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BCampbell	3-31-10 1330	[illegible]/Edwards	3/31/10 1330
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
		222S 20090876	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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)ICP Metals - 6010 (SW-846) (TF); Mercury - 7470 - (CV) (TF); RADISO_ICPMS (TF);

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-014	PAGE 2 OF 2

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.**		
C7472 Equipment Blank	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-004	TFVZ-09-000001	n/A	n/A	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		amth 5-15-10 N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	NaOH to pH >= 12/Cool~4C ✓	HNO3 to pH <2 ✓	None ✓	Cool~4°C ✓	Cool~4°C ✓
TYPE OF CONTAINER	G/P	G/P	G/P	G	G/P
NO. OF CONTAINER(S)	1	2	1	3	1
VOLUME	250mL	1000mL	1000mL	40 ml	
SAMPLE ANALYSIS	Total Cyanide - 9014 (TF);	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	C-14; H3 - TRITIUM; I129_SEP_GEA (TF);	Ethylene Glycol	DBP/ MBP

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B238D8	WATER	3-31-10	0945	✓	✓	✓	✓	✓
				S09V001604	S09V001601	S09V001600	S10V000537	S10V000538

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BC Campbell	3-31-10 1330	CLaWarde / CLaWarde	3/31/10 1330
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(2)GAMMA ENERGY ANALYSIS (TF); Americium-241 (TF); CURIUM; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90; Isotopic Plutonium {Plutonium-239/240, Plutonium-238}

2225 20090876

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

A-6003-618(01/06)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev EE-Ø

Date Samples Received: 4/15/10 VA Dose

Group #: 20090877 20090875

Number of Samples:

Sample Custodian: TM Good

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete		✓	
Check that outer custody seal is intact, if present	✓		
Record cooler temperature in centigrade, as appropriate	✓	-11	≤ 17* ☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling	✓		
• Sampling location or origin	✓		
• Container type, size, and number	✓		
• Analysis request is clear	✓		
• Signature of persons relinquishing and receiving samples	✓		
• Date and/or time of sample custody exchange	✓		
Verify that sample numbers on containers match the COC and/or RSA	✓		
Samples stored properly (e.g., refrigeration)	✓		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials CL Date 4/15/10

If No, comment on communication and resolution: for QR

Other Comments:

*17°C - Blank was not measured, this was temperature of smpl

A-6005-342 (REV 0)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-020	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.**		
C7472 Field Blank 8	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	
B238F4	WATER	4-15-10	1235	✓
510V000814				

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 Gifford	4/15/10 @1410

SPECIAL INSTRUCTIONS
Cooler 11c
22252009087 5

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

A-6003-618(01/06)

Washington River Protection Solutions | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | V10-003-019 | PAGE 1 OF 1

COLLECTOR: Campbell / 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: C7472 Surface	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: Surface	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		
B236N7	SOIL	4-15-10	1235	✓	✓
S09V001610	Lo				
S09V001611	Hi				

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	[signature]	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

877 DPR
222S20090~~88~~ 4-20-10

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-018	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.
C7472 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~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	
B236N6	SOIL	4-15-10	1235	—
509V001612				

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

** 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

222S 20090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-017	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.**		
C7472 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	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
B236N5	SOIL	4-15-10	1235
S09V001013			

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	[signature]	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

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

222S20090877

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

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-022 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.**		
C7472 Surface Dup	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	~~N/A~~ 4-15-10 BC 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		
B236P0	SOIL	4-15-10	1235		
S09V001622					
S09V001623					

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

** 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

22252009 0877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-021	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.
C7472 Surface Dup	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 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~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
B236N9	SOIL	4-15-10	1235
S09V001624			

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	[illegible] 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 H~~ BC 4-15-10
Cooler 11C

222S 20090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-020	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Tim Campbell/Harris 4-15-10	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7472 Surface Dup	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 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
B236N8	SOIL	4-15-10	1335
S09V001625			

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 McWhorter	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

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

20090877

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

A-6003-618(01/06)

4/6/2010 10:15 AM	WORKING COPY

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C 7472 / Surface dep.		
Sampler Initials:	CA, BC	**Date:**	4-15-10
Scale Number:	820-66-06-002	**Cal. Due Date:**	11-9-10

Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B236P0	K	N/A	N/A	26.76	32.11	6.08	No Methanol
B236P0	L	N/A	N/A	26.03	31.23	5.20	No Methanol
B236P0	M	N/A	N/A	26.12	32.04	5.92	No Methanol
B236P0	N	N/A	N/A	26.10	32.14	6.04	No Methanol
B236P0	P	N/A	N/A	25.97	31.58	5.61	No Methanol
B236P0	W	38.248	38.13	38.53	44.21	5.68	10 ml.
B236P0	X	37.890	37.72	38.10	43.19	5.09	10 ml.
B236P0	Y	37.976	37.88	38.27	44.60	6.33	10 ml.
B236N9	*	38.586	38.54	38.92	38.92	N/A	10 ml.

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

4/6/2010 10:15 AM	WORKING COPY

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C 7472 / Surface		
Sampler Initials:	CA, BC	**Date:**	4-15-10
Scale Number:	820-66-06-002	**Cal. Due Date:**	11-9-10

Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B236N7	K	N/A	N/A	26.79	32.46	5.67	No Methanol
B236N7	L	N/A	N/A	26.88	32.87	5.99	No Methanol
B236N7	M	N/A	N/A	26.82	33.03	6.21	No Methanol
B236N7	N	N/A	N/A	26.76	33.01	6.25	No Methanol
B236N7	P	N/A	N/A	26.81	32.32	5.51	No Methanol
B236N7	W	38.257	38.10	38.50	43.66	5.16	10 ml.
B236N7	X	38.407	38.25	38.64	44.04	5.40	10 ml.
B236N7	Y	38.205	38.11	38.48	43.56	5.08	10 ml.
				38.50			
B236N6	*	38.227	38.10	~~38.10~~ 4-15-10 38.50	38.50	N/A	10 ml.

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev D.D.

Date Samples Received: 12.29.09 Group #: TC090 877, 875 & 878

Number of Samples: 2 core Intervals, 1 Trip, 1 Field Blank

Sample Custodian: [illegible]

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	Y		
RSR provided?	Y		
Verify GKI is complete		✓	on File
Check that outer custody seal is intact, if present	Y		
Record cooler temperature in centigrade, as appropriate	→		☐ Check if no cooler and/or no ice 3.3°/-6.1°
Samples are intact and in good condition	Y		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	Y		
• Date and time of sampling	Y		
• Sampling location or origin	Y		
• Container type, size, and number	Y		
• Analysis request is clear	Y		
• Signature of persons relinquishing and receiving samples	Y		
• Date and/or time of sample custody exchange	Y		
Verify that sample numbers on containers match the COC and/or RSA	Y		
Samples stored properly (e.g., refrigeration)			Freezer, #4, #1, Fridge

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials GPR Date 12/29/2009

If No, comment on communication and resolution:

Other Comments:

I-001 & I-002

A-6005-342 (REV 0)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-002-009

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	7P	DATA TURNAROUND
Campbell/Harris	SYDNOR, HA	373-3967	BERLIN, PC			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	☐	**75 Days / 75 Days**
C7472 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**		
TFV-009-003	TFVZ-09-000001	5-7	n/a	GOVERNMENT VEHICLE		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
222-S Lab Operations						

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

222S20090875

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	
B238D3 ~~S09V001586~~ RHBal 12/29/09	WATER	12-29-09	08:50	X
~~S09V001586~~ RHBal				
S09V001587 12/29/09				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12-29-09 1320	RHBal R H Steele	12-29-09 1320
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

3.3 ✓

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	V10-002-004	PAGE 1 OF 1

COLLECTOR: Campbell / Harris	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P; AIR QUALITY: ☐; DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7472 Field Blank 1	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V10-002	
ICE CHEST NO.: TFV-009-003	FIELD LOGBOOK NO.: TFVZ-09-000001	ACTUAL SAMPLE DEPTH: 5-7	COA: n/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.:		BILL OF LADING/AIR BILL NO.:	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

222S 20090875

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3 V
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238C8	WATER	12-29-09	9:00	X
S09V001592				

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12-29-09 1320	RtHale RtSteele	12-29-09 1320

SPECIAL INSTRUCTIONS

3.3 e

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-025	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.**		
C7472 I001	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV-009-003	TFV 2-09-000001	5-7	n/a	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 20090877

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-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		
B236P4	SOIL	12-29-09	0920	X	X
S09V001634					
S09V001635					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BC-pbell	12 29 09 1320	[illegible] [illegible]	12.29.09 1320
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** 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.

3.3 C / -6.1 C

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-024	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.**		
C7472 I001	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV-009-003	TFVZ-09-000001	S-7	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

222S20090877

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	
B236P3	SOIL	12-29-09	0920	X
S09V001636				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12-29-09 1320	R Steele R Steele	12-29-09 1320
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** 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.

38F / 3.3C

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-023	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.**		
C7472 I001	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV-009-003	TFVZ-09-000001	5-7	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

222S 20090877

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~1~~ BC 12-29-09 2
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B236P2	SOIL	12-29-09	09:28	X
S09V001637				
S09V001638				

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12.29.09 1320	RtSteele RtSteele	12.29.09 1320

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

Liner 2 ~~50%~~ BC 12-29-09
50% Full
3.3 C

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-028	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.**		
C7472 I002	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV-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					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 20090877

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-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		
B236P7	SOIL	12-29-09	11:33	K	K
S09V001649					
S09V001650					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12.29.09 1320	R Steele R Steele	12.29.09 1320
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** 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.

3.3 C / -6.1 C

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-027	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.**		
C7472 I002	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV-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					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

222S20090877

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	
B236P6	SOIL	12-29-09	11:33	X
S09V001651				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-Campbell		RT Bost RBTech/G	12-29-09 1320
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** 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.

3.3°C

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-026	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.**		
C7472 I002	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV-009-003	TFVZ-09-000001	10-12	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

2225 20090877

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1 BC 12-29-09 BC
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B236P5	SOIL	12-29-09	1140	X
S09V001652				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BCampbell	12.29.09 1320	RSteele RSteele	12.29.09 1320
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

3.3°C

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

A-6003-618(01/06)

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C-farm / C 7472 ID01 5'-7'						
Sampler Initials:	BC, OA				**Date:**	12-29-09	
Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B236P4	K	N/A	N/A	26.20	31.09	4.89	No Methanol
	L	N/A	N/A	25.99	30.35	4.36	No Methanol
	M	N/A	N/A	26.23	30.92	4.69	No Methanol
	N	N/A	N/A	26.00	30.52	4.52	No Methanol
	P	N/A	N/A	26.12	31.03	4.91	No Methanol
B236P4	W	33.901	34.02	34.40	37.69	3.29	
	X	33.973	34.12	34.49	37.15	2.66	
	Y	33.751	33.89	34.29	38.49	4.20	
B236P3	*	34.054	34.20	34.55	N/A	N/A	

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C 7472 I002 10'- 12'						
Sampler Initials:	QA / BC				**Date:**	12-29-09	
Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weight[5] (grams)[5]	Methanol in sample bottle (ml)
B236P7	K	N/A	N/A	25.92	31.00	5.08	No Methanol
	L	N/A	N/A	26.07	31.09	5.02	No Methanol
	M	N/A	N/A	26.06	31.24	5.18	No Methanol
	N	N/A	N/A	25.95	30.80	4.85	No Methanol
	P	N/A	N/A	26.00	30.58	4.58	No Methanol
B236P7	W	34.030	34.17	34.57	38.80	4.23	
	~~X~~ *	34.00	34.14	34.49	~~34.49~~ N/A	N/A	
	Y	34.093	34.24	34.63	39.28	4.65	
B236P6	* X	33.811	33.76	34.16	40.56	6.40	

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev DD·1

Date Samples Received: 12·30·09 Group #: 20080877, 878, & 875

Number of Samples: 1TB, 1FB, I003 & I004

Sample Custodian: [illegible]

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete		✓	on File
Check that outer custody seal is intact, if present	✓		6°/7°
Record cooler temperature in centigrade, as appropriate			☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling	✓		
• Sampling location or origin	✓		
• Container type, size, and number	✓		
• Analysis request is clear	✓		
• Signature of persons relinquishing and receiving samples	✓		
• Date and/or time of sample custody exchange	✓		
Verify that sample numbers on containers match the COC and/or RSA	✓		
Samples stored properly (e.g., refrigeration)	✓		2 B, (Freezer 1,) (Fridge 1, 4)

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials GPR Date 12-30-09

If No, comment on communication and resolution:

Other Comments:

I003 & 4 plus 1TB & 1FB

A-6005-342 (REV 0)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-002-010

COLLECTOR: Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P
SAMPLING LOCATION: C7472 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: 14 – 16	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	

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	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	
B238D4	WATER	12-30-09	10:23	A
S09V001988				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12/30/09 12:00	RHSteele RHSteele	12:30:09 1200

SPECIAL INSTRUCTIONS

6°C

222S20090875

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-005	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.
C7472 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	14-16	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	
B238C9	WATER	12-30-09	10:27	X
S09V001593				

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-pbell	12-30-09 1200	RtBlack RtStGale	12-30-09 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
6°C
22252009087 5

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-029	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7472 I003	WMA C Sampling for CMS	V10-003

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVS-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		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C	cool~6C
TYPE OF CONTAINER	Liner	AG
NO. OF CONTAINER(S)	3	1
VOLUME	160g	500ml
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	see item 1 in special instruction

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B236P8	SOIL	12-30-09	09:43	X	X
S09V001654	liner A				
1664	liner B				
1665	liner C				
1666	Shoe				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B C Campbell	12-30-09 1200	[illegible]	12.30.09 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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;

6°C

22252009087 7

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-034	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7472 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 <-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		
B238H3	SOIL	12-30-09	10:25	X	X
S09V001679					
S09V001680					

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12-30-09 1200	R A Steele R A Steele	12-30-09 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** 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.

-7°C / 6°C

222S20090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-033	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7472 I004	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	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~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	
B238H2	SOIL	12-30-09	10:25	X
S09V001681				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell / B C-pbell	12-30-09 12:00	RHSteele / RHSteele	12.30.09 1260
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.

6°C
222S20090877

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

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-032

PAGE 1 OF 1

COLLECTOR: Campbell	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: C7472 I004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	
ICE CHEST NO.: TFV2-09-~~000001~~ 003 BC 12-30-09	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~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238H1	SOIL	12-30-09	10:25	X
S09V001682	liner (a)			
1683	liner (b)			
1684	liner (c)			

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	12-30-09 1200	RtStaele RtStaele	12-30-09 1200

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

6°C

222520090877

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

A-6003-618(01/06)

12/9/2009 3:02 PM	WORKING COPY

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C 7472 - I004						
Sampler Initials:	OA, BC				**Date:**	12-30-09	
Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weight[5] (grams)[5]	Methanol in sample bottle (ml)
B238H3	K	N/A	N/A	26.06	30.71	4.65	No Methanol
B238H3	L	N/A	N/A	26.08	30.48	4.40	No Methanol
B238H3	M	N/A	N/A	25.96	30.63	4.67	No Methanol
B238H3	N	N/A	N/A	26.00	30.04	4.04	No Methanol
B238H3	P	N/A	N/A	26.03	29.26	3.23	No Methanol
B238H3	W	33.806	33.94	34.32	37.99	3.67	n/A
B238H3	X	33.823	33.94	34.28	37.41	3.13	n/A
B238H3	Y	33.961	33.87	34.46	37.91	3.45	n/A
B238H2	*	33.836	33.98	34.22	n/A	n/A	n/A

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev D.D.1

Date Samples Received: 1-5- Group #: 20090877

Number of Samples: 4 878 875

Sample Custodian: [illegible]

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete		✓	on File
Check that outer custody seal is intact, if present	✓		
Record cooler temperature in centigrade, as appropriate	1°C/3°C		☐ Check if no cooler and/or no ice
Samples are intact and in good condition			If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling	✓		
• Sampling location or origin	✓		
• Container type, size, and number	✓		
• Analysis request is clear	✓		
• Signature of persons relinquishing and receiving samples	✓		
• Date and/or time of sample custody exchange	✓		
Verify that sample numbers on containers match the COC and/or RSA	✓		
Samples stored properly (e.g., refrigeration) Freezer	✓		2B, Freezer, Fridge #1, #4

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials PAB Date 1/6/2010

If No, comment on communication and resolution:

Other Comments:

1TB, 1FB, I005, I006

A-6005-342 (REV 0)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-011	PAGE 1 OF 1

COLLECTOR Campbell/Harris	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 7P; **AIR QUALITY** ☐; **DATA TURNAROUND** 75 Days / 75 Days
SAMPLING LOCATION C7472 Trip Blank 3	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC Sampling		**SAF NO.** V10-002	
ICE CHEST NO. TFV2-09-003	**FIELD LOGBOOK NO.** TFV2-09-000001	**ACTUAL SAMPLE DEPTH** 108.5-110.5	**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	
B238D5	WATER	1-5-10	840	L
S09V001589				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: BCampbell	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	222S20090875
~~RHStecle~~ RHStecle 1-5-10	1-5-10 1415	RHStecle	1-5-10 14-15	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	1°C Temp blank
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-006	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.
C7472 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
TFV2-09-003	TFV2-09-000001	108.5 - 110.5	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	
B238D0	WATER	1-5-10	8:53	x
S09V001594				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BCampbell	1-5-10 1415	RA Steele RASteele	1-5-10 1415
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

222S20090875

1 oz Temp blank

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-037	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.**		
C7472 I005	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	108.5-110.5	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-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		
B238H6	SOIL	1-5-10	9:42	✓	✓
S09V001694 low level					
S09V001695 high level					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-Campbell	1-5-10 1415	RHSteele RHSteele	1.5.10 1415
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** 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 / 3 oc

222S20090877

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

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-036 PAGE 1 OF 1

COLLECTOR: Campbell/Harris	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P; DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7472 I005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐
ICE CHEST NO.: TFV2-09-003	FIELD LOGBOOK NO.: TFV2-09-000001	ACTUAL SAMPLE DEPTH: 108.5-110.5	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
B238H5	SOIL	1-5-10	9:42
S09V001696			

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BCampbell	1-5-10 1415	RHHegle RHHegle	1-5-10 1415

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 oe

222S 20090877

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

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-035 PAGE 1 OF 1

COLLECTOR: Campbell / 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: C7472 I005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	
ICE CHEST NO.: TFVZ-09-003	FIELD LOGBOOK NO.: TFVZ-09-000001	ACTUAL SAMPLE DEPTH: 108.5 - 110.5	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	
B238H4	SOIL	1-5-10	9:42	✓
S09V001697 Liner A				
S09V001698 Liner B				
S09V001699 Liner C				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: B Campbell B Campbell	DATE/TIME	RECEIVED BY/STORED IN: RKRistek RISteele	DATE/TIME: 1-5-10 1415
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

1 UC

222S20090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-040	PAGE 1 OF 1

COLLECTOR Campbell / 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 C7472 I006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	
ICE CHEST NO. TFVZ-009-003 (AC 1-5-10)	**FIELD LOGBOOK NO.** TFVZ-09-000001	**ACTUAL SAMPLE DEPTH** 129 - 131	**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		
B238H9	SOIL	1-5-10	1310	✓	
S09V001709 low level					
S09V001710 high level					

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	1-5-10 1415	RtSteele	1.5.10 1415

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 / 3°C

222S20090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-039	PAGE 1 OF 1

COLLECTOR Campbell / 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 C7472 I006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	
ICE CHEST NO. TFVZ-009-003 (BC 1-5-10)	**FIELD LOGBOOK NO.** TFVZ-09-000001	**ACTUAL SAMPLE DEPTH** 129-131	**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
B238H8	SOIL	1-5-10	1310
S09V001711			

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC_pbell 1-5-10	1415	RHSteele RHSteele 1-5-10	14:15

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.

222S 20090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-038	PAGE 1 OF 1

COLLECTOR Campbell / 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 C7472 I006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	
ICE CHEST NO. BC 1-5-10 TFVZ-009-003	**FIELD LOGBOOK NO.** TFVZ-09-000001	**ACTUAL SAMPLE DEPTH** 129-131	**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)

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238H7	SOIL	1-5-10	1310	✓
S09V001712 Liner A				
S09V001713 Liner B				
S09V001714 Liner C				

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Cpbell B C_phell	1-5-10 1415	RtRtak RtStee/G	1-5-10 1415

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

1°C

222S20090877

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

A-6003-618(01/06)

12/9/2009 3:02 PM	WORKING COPY

VOC Soil and Sediment Sampling

0942

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C7472 / I005						
Sampler Initials:	[illegible], BC				**Date:**	1-5-10	
Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B238H6	K	N/A	N/A	25.96	30.60	4.64	No Methanol
B238H6	L	N/A	N/A	26.12	31.25	5.13	No Methanol
B238H6	M	N/A	N/A	25.91	31.30	5.39	No Methanol
B238H6	N	N/A	N/A	26.24	31.06	4.82	No Methanol
B238H6	P	N/A	N/A	26.02	31.21	5.19	No Methanol
B238H6	36 W	36.98	36.78	37.16	41.60	4.44	10 ml.
B238H6	31 X	37.32	37.14	37.53	42.92	5.39	10 ml.
B238H6	69 Y	37.25	37.08	37.48	42.77	5.29	10 ml.
							10 ml.
B238H5	29 *	36.96	36.81	37.22	37.22	37.22	10 ml.

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

1310

SAMPLE RECORD SHEET

Location:	C7472 / I006						
Sampler Initials:	OA, BC				**Date:**	1-5-10	
Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B238H9	K	N/A	N/A	26.16	31.01	4.85	No Methanol
B238H9	L	N/A	N/A	26.20	31.27	5.07	No Methanol
B238H9	M	N/A	N/A	26.31	30.87	4.56	No Methanol
B238H9	N	N/A	N/A	26.13	30.17	4.04	No Methanol
B238H9	P	N/A	N/A	26.18	30.69	4.51	No Methanol
B238H9	W	33.892	34.02	34.07	38.96	4.89	10 ml.
B238H9	X	33.724	33.87	34.15	38.55	4.40	10 ml.
B238H9	Y	34.082	34.23	34.26	38.94	4.68	10 ml.
							10 ml.
B238H8	*	33.734	33.87	33.91	33.91	33.91	10 ml.

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev DD.1

Date Samples Received: 1-7-10 Group #: 2C090875 877

Number of Samples: 5

Sample Custodian: [signature]

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete		✓	on File
Check that outer custody seal is intact, if present	✓		
Record cooler temperature in centigrade, as appropriate	-1°C / 3°C		☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling	✓		
• Sampling location or origin	✓		
• Container type, size, and number	✓		
• Analysis request is clear	✓		
• Signature of persons relinquishing and receiving samples	✓		
• Date and/or time of sample custody exchange	✓		
Verify that sample numbers on containers match the COC and/or RSA	✓		
Samples stored properly (e.g., refrigeration)	✓		Freezer, #4, #1

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials RWB Date 1/11/2010

If No, comment on communication and resolution:

Other Comments:

1TB, 1FB, I007

A-6005-342 (REV 0)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-012	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	**75 Days / 75 Days**
C7472 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	142 - 144	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
B238D6	WATER	1-7-10	~~0830~~ BL 1-7-10
S09V001590			0830

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	1-7-10 1130	RHLeal ABSteele	1-7-10 1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

-1°C
Temp blank
RJS

222S20090875

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-007	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.**		
C7472 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**	
TFV2-09-003	TFV2-09-000001	142-144	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
B238D1	WATER	1-7-10	0842
S09V001595			

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell BC-pbell	1-7-10 1130	Rhetta A Steele	1.7.10 1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

-1 °C
Temp Blank
MG

222S 20090875

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-043	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.**		
C7472 I007	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	142-144	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-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		
B238J2	SOIL	1-7-10	1010	✓	✓
S09V001724	Low Level				
S09V001725	High Level				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell	1-7-10 1130	RHSteele RHSteele	1-7-10 1130

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 / 3°C Temp Blanks pla

22252009087 7

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-042	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Campbell / Harvis	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7472 I007	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	142-144	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~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
B238J1	SOIL	1-7-10	1010 ✓
S09V001726			

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BCampbell BCampbell	1-7-10 1130	RA Stefele	1-7-10 1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** 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
Temp Blank
RS

2225 20090877

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

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-041

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Campbell / Harris	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7472 I007	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV2-09-003	TFV2-09-000001	142 – 144	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238J0	SOIL	1-7-10	1010
S09V001727	Liner A		
S09V001728	Liner B		
S09V001729	Liner C		

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B Campbell B Campbell 1-7-10	1130	R Steele R Steele 1-7-10	1130

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-1°C
Temp Blank
RA

222S20090877

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

A-6003-618(01/06)

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C7472 / I007						
Sampler Initials:	BC, DA				**Date:**	1-7-10	
Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B23812	K	N/A	N/A	26.18	31.22	5.04	No Methanol
B23812	L	N/A	N/A	26.03	30.88	4.85	No Methanol
B23812	M	N/A	N/A	25.84	29.46	3.62	No Methanol
B23812	N	N/A	N/A	25.98	31.24	5.26	No Methanol
B23812	P	N/A	N/A	25.82	30.98	5.16	No Methanol
B23812	W	37.15	36.99	37.35	41.10	3.75	10 ml.
B23812	X	37.03	36.83	37.21	39.77	2.56	10 ml.
B23812	Y	33.972	33.93	34.30	36.65	2.35	10 ml.
B23811	*	36.90	36.76	37.08	37.08	n/A	10 ml.

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev D.D.1

Date Samples Received: 1.14.10 Group #: 20090875 & 20090877

Number of Samples: 1 set vadose, 1FB, 1TB

Sample Custodian: R Allen

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete		✓	On File
Check that outer custody seal is intact, if present	✓		
Record cooler temperature in centigrade, as appropriate	-10C / ice		☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling	✓		
• Sampling location or origin	✓		
• Container type, size, and number	✓		
• Analysis request is clear	✓		
• Signature of persons relinquishing and receiving samples	✓		
• Date and/or time of sample custody exchange	✓		
Verify that sample numbers on containers match the COC and/or RSA	✓		
Samples stored properly (e.g., refrigeration)	✓		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials BeB Date 1/14/2010

If No, comment on communication and resolution:

Other Comments:

1FB, 1TB, I008 C7472

A-6005-342 (REV 0)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-002-013

PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris / Campbell	SYDNOR, HA	373-3967	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7472 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**	
TFVZ-09-003	TFVZ-09-000001	158' - 160'	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
B238D7	WATER	1-14-10	08:45
S09V001591			

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	1.14.10 1100	R Steele	1.14.10 1100

SPECIAL INSTRUCTIONS

1 oz Trip Blank RL

222S 20090875

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

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-002-008

COLLECTOR: Harris / Campbell	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P
SAMPLING LOCATION: C7472 Field Blank 5	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: 158' - 160'	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	

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	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (T€L) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B238D2	WATER	1-14-10	0850
S09V001596			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	1.14.10 1100	R R Steele	1.14.10 1100

SPECIAL INSTRUCTIONS

1 oz Tank BLANK

222S 20090875

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

A-6003-618(01/06)

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V10-003-046

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Campbell	SYDNOR, HA	373-3967	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7472 I008	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVZ-09-003	TFVZ-09-000001	158' - 160'	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

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		
B238J5	SOIL	1-14-10	10:00	✓	✓
S09V001739 Low Level					
S09V001740 High Level					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-14-10 1100	RJSteele RJSteele	1-14-10 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** 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.

-1oz / -2oz Temp blank
Dh
222S20090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-045	PAGE 1 OF 1

COLLECTOR Harris/Campbell	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 8P
SAMPLING LOCATION C7472 I008	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	**AIR QUALITY** ☐
ICE CHEST NO. TFV2-09-003	**FIELD LOGBOOK NO.** TFV2-09-000001	**ACTUAL SAMPLE DEPTH** 158'-160'	**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~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	
B238J4	SOIL	1-14-10	10:00	✓
S09V001741				

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1.14.10 1160	RtSteele	1.14.10 1160

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
Temp blank
RT

222S20090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-044	PAGE 1 OF 1

COLLECTOR: Harris / Campbell	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: C7472 I008	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	
ICE CHEST NO.: TFU2-09-003	FIELD LOGBOOK NO.: TFU2-09-000007	ACTUAL SAMPLE DEPTH: 158'-160'	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)

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B238J3	SOIL	1-14-10	10:00	—
S09V001742 Liner A				
S09V001743 Liner B				
S09V001744 Liner C				

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-14-10 / 11:00	RTStech RTSTEE/C	1-14-10 1100

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-1 oc RTStech Temp BLANK

222520090877

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

A-6003-618(01/06)

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C 7472 I008						
Sampler Initials:	BC				**Date:**	1-14-10	
Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B238J5	K	N/A	N/A	25.92	30.94	5.02	No Methanol
B238J5	L	N/A	N/A	26.37	31.35	4.98	No Methanol
B238J5	M	N/A	N/A	25.88	30.91	5.03	No Methanol
B238J5	N	N/A	N/A	26.04	30.04	4.00	No Methanol
B238J5	P	N/A	N/A	26.36	31.71	5.35	No Methanol
B238J5	W	38.070	38.05	38.45	43.66	5.21	10 ml
B238J5	X	38.985	38.97	39.37	44.54	5.17	10 m
B238J5	Y	38.405	38.39	38.78	44.00	5.22	10 m
B238J4	*	38.350	38.35	38.73	38.73	n/A	10 m

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev DD.1

Date Samples Received: 1.15.10 Group #: 20090875 & 20090877

Number of Samples: 1 (set) vadose + 1 FB 1 TB

Sample Custodian: [illegible]

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete	✓		on file
Check that outer custody seal is intact, if present	✓		
Record cooler temperature in centigrade, as appropriate	-10C / -5C		☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling	✓		
• Sampling location or origin	✓		
• Container type, size, and number	✓		
• Analysis request is clear	✓		
• Signature of persons relinquishing and receiving samples	✓		
• Date and/or time of sample custody exchange	✓		
Verify that sample numbers on containers match the COC and/or RSA	✓		
Samples stored properly (e.g., refrigeration)	✓		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials SPR Date 1/14/2010

If No, comment on communication and resolution:

Other Comments:

1 FB, 1 TB, I009 C7422

A-6005-342 (REV 0)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-015	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.**		
C7472 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	195' - 197'	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
B238D9	WATER	1-15-10	07:30
S09V000072			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-15-10 11:38	RTSteele RTSteele	1.15.10 1136

SPECIAL INSTRUCTIONS

-1 °C
Temp Blank
RTS

222520090875

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-018	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.**		
C7472 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	195'-197'	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	
B238F2	WATER	1-15-10	0830	✓
S09V000073				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-15-10 11:30	RFSteele	1-15-10 1130

SPECIAL INSTRUCTIONS

-1 cc Temp Blank RFS

22252009087 5

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-049	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.**		
C7472 I009	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		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		
B238J8	SOIL	1-15-10	1030	✓	✓
S09V001754	Low Level				
DPR 1-15-10					
S09V001755	High Level				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-15-10 11:30	RBSteele RBSteele	1.15.10 1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** 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 / 5°C Temp blank RA

222S20090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-048	PAGE 1 OF 1

COLLECTOR: Campbell / 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: C7472 I009	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: 195'-197'	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	
B238J7	SOIL	1-15-10	10:30	✓
S09V001756				

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-15-10 11:30	RtSteele	1.15.10 1130

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
Temp blank
Rt

222520090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-047	PAGE 1 OF 1

COLLECTOR Harris / Campbell	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 8P; **DATA TURNAROUND** 75 Days / 75 Days
SAMPLING LOCATION C7472 I009	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	**AIR QUALITY** ☐
ICE CHEST NO. TFVZ-09-003	**FIELD LOGBOOK NO.** TFVZ-09-000001	**ACTUAL SAMPLE DEPTH** 195'-197'	**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
B238J6	SOIL	1-15-10	10:30
S09V001757	Liner A		
1758	Liner B		
1759	Liner C		

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-15-10 11:30	RtSteele RtSteele	1.15.10 1130

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

-1°C
Temp blank
Rto

222S20090877

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

A-6003-618(01/06)

12/9/2009 3:02 PM	WORKING COPY

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C7472 I009						
Sampler Initials:	BC				**Date:**	1-15-10	
Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B238J8	K	N/A	N/A	26.01	30.89	4.88	No Methanol
B238J8	L	N/A	N/A	26.05	31.85	5.80	No Methanol
B238J8	M	N/A	N/A	25.95	31.19	5.24	No Methanol
B238J8	N	N/A	N/A	26.30	31.~~56~~65 1-15-10	5.25	No Methanol
B238J8	P	N/A	N/A	26.20	31.94	5.74	No Methanol
B238J8	W	38.356	38.32	38.73	43.67	4.94	10 ml
B238J8	X	38.525	38.51	38.90	43.87	4.97	10 ml
B238J8	Y	38.746	38.72	39.13	44.41	5.28	10 ml
B238J7	*	38.180	38.16	38.54	38.54	n/A	10 ml

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev D.D. 1

Date Samples Received: 1.19.10 Group #: 26090877 878 875

Number of Samples: 1 set vadose & 1TB, 1FB

Sample Custodian: [signature]

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete	✓		on File
Check that outer custody seal is intact, if present	✓		
Record cooler temperature in centigrade, as appropriate	13°C / 13°C		☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling	✓		
• Sampling location or origin	✓		
• Container type, size, and number	✓		
• Analysis request is clear	✓		
• Signature of persons relinquishing and receiving samples	✓		
• Date and/or time of sample custody exchange	✓		
Verify that sample numbers on containers match the COC and/or RSA	✓		
Samples stored properly (e.g., refrigeration)	✓		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials RA Date 1.19.10

If No, comment on communication and resolution: for J.R. Ritenour

Other Comments:

I010, TB7, FB7 DPR 01-19-10

A-6005-342 (REV 0)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-016	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.**		
C7472 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-000001	216' - 218'	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	
B238F0	WATER	1-19-10	08:25	✓
S10V000082				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-19-10 1130	R Steele R Steele	1.19.10 1130

SPECIAL INSTRUCTIONS

222S20090875

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-019	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.**		
C7472 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	216' - 218'	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	
B238F3	WATER	1-19-10	0840	✓
S10V000083				

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-19-10 1130	R Steele R Steele	1-19-10 1130

SPECIAL INSTRUCTIONS

22252009087 5

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-052	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.**		
C7472 I010	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	216' - 218'	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-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			
B23K86	SOIL	1-19-10	10:10	✓	✓	
~~S09V000074~~	~~Lo Level~~					
~~S9~~	APRoy 1-19-10					
S10V000074	Lo Level					
S10V000075	H. Level					

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-19-10 11:30	RK Steele RK Steele	1.19.10 1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** 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.

13°C / -13° / Temp blank RK 222S20090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-051	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.**		
C7472 I010	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	216'- 218'	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~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
B23K85	~~SOIL~~ LIQUID	1-19-10	10:10
S10V00076	methanol		

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-19-10 11:30	[illegible]	1-19-10 1130

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.

13°C
Temp Blank
NA

222520090877

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-050	PAGE 1 OF 1
COLLECTOR Campbell / 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 C7472 I010	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVZ-09-003	FIELD LOGBOOK NO. TFVZ-09-000001	ACTUAL SAMPLE DEPTH 216'-218	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	
B238K3	SOIL	1-19-10	1010	—
S10V000077	liner (a)			
78	liner (b)			
79	liner (c)			

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	1-19-10 11:30	R Kleele	1.19.10 1130

SPECIAL INSTRUCTIONS

After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1)Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-239/240, Plutonium-238} Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90;

13°C
Temp Blank
RK

222520090877

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

A-6003-618(01/06)

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C 7472 / I 1010						
Sampler Initials:	OA, BC				**Date:**	1-19-10	
Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B23K86	K	N/A	N/A	26.01	29.99	3.98	No Methanol
B23K86	L	N/A	N/A	26.05	29.12	3.07	No Methanol
B23K86	M	N/A	N/A	26.08	29.91	3.83	No Methanol
B23K86	N	N/A	N/A	26.02	31.35	5.33	No Methanol
B23K86	P	N/A	N/A	26.27	31.65	5.38	No Methanol
B23K86	W	38.793	38.77	39.17	44.35	5.18	10 ml.
B23K86	X	38.154	38.14	38.52	43.07	4.55	10 ml.
B23K86	Y	38.209	38.18	38.57	43.98	5.41	10 ml.
B23K85	*	38.597	38.57	38.96	38.95	N/A	10. ml.

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.