FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7680 IN SUPPORT OF RCRA SOIL CHARACTERIZATION

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Abstract: This final report contains the analytical results supporting the RCRA characterization of Vadose samples from core 7680 in C Farm. It also contains the results for associated field and trip blanks supporting the sampling effort.

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FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7680, IN SUPPORT OF RCRA SOIL CHARACTERIZATION

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Table of Contents

NARRATIVE..... 1

1.0 INTRODUCTION..... 1

2.0 SAMPLE RECEIPT AND BREAKDOWN..... 2

2.1 SAMPLE RECEIPT..... 2

2.2 SAMPLE BREAKDOWN..... 2

3.0 ANALYTICAL RESULTS SUMMARY..... 2

3.1 SAMPLE DIGESTIONS..... 4

3.2 INORGANIC ANALYSES 4

3.3 RADIOCHEMICAL ANALYSIS 9

3.4 ORGANIC ANALYSES..... 11

4.0 PROCEDURES 14

5.0 REFERENCES 15

Attachment 1: DATA SUMMARY REPORT..... 16

Trip Blank..... 17

Field Blank..... 29

Sample Depth: Surface..... 47

Sample Depth: Surface Dup..... 52

Sample Depth: 5-7..... 61

Sample Depth: 10-12..... 68

Sample Depth: 14-16..... 75

Sample Depth: 17-19..... 82

Sample Depth: 43-45..... 89

Sample Depth: 92-94..... 96

Sample Depth: 116-118..... 103

Sample Depth: 142-144 110

Attachment 2: SAMPLE BREAKDOWN DIAGRAM 117

Field Blank 118

Trip Blank 120

Sample Depth: Surface 121

Sample Depth: Surface-Dup 122

Sample Depth: 5-7 123

Sample Depth: 10-12 124

Sample Depth: 14-16 125

Sample Depth: 17-19 126

Sample Depth: 43-45 127

Sample Depth: 92-94 128

Sample Depth: 116-118 129

Sample Depth: 142-144 130

Attachment 3: HOLDING TIME REPORT 131

Holding Time Report: Cyanide 132

Holding Time Report: Sulfide 133

Holding Time Report: pH 134

Holding Time Report: Mercury 135

Holding Time Report: IC Ammonium 136

Holding Time Report: IC Anions 137

Holding Time Report: ICP/AES Metals 138

Holding Time Report: ICP/MS Radiological Isotopes 139

Holding Time Report: ICP/MS Metals 141

Holding Time Report: Radiochemistry..... 143

Holding Time Report: GC/MS SVOA..... 146

Holding Time Report: GC/MS VOA..... 147

Attachment 4: ADDITIONAL QC RESULTS..... 148

Mercury MS/MSD Report..... 149

VOA MS/MSD Report..... 150

SVOA MS/MSD Report..... 152

VOA Surrogates & LCS..... 153

VOA Batch 21718..... 153

VOA Batch 21719..... 156

VOA Batch 21786..... 159

VOA Batch 21922..... 162

VOA Batch 21979..... 165

VOA Batch 24659..... 168

SVOA Surrogates & LCS..... 168

SVOA Batch 22043..... 171

SVOA Batch 22217..... 173

SVOA Batch 22254..... 175

Attachment 5: TICs FOR ORGANIC ANALYSES..... 177

VOA TICs..... 178

SVOA TICs..... 185

Attachment 6: ANALYTICAL BATCH AND LAB SAMPLE ID INDEX.... 195

Attachment 7: GEOLOGICAL REPORT..... 202

Geologic descriptions..... 203

Sample Photographs..... 208

Bulk Density Results..... 221

Attachment 8: CCN AND CORRESPONDENCE..... 222

Attachment 9: RECEIPT PAPERWORK..... 231

COC C7680 Surf,SurfD,TB1,FB1..... 232

COC C7680 I001,TB2,FB,2..... 245

COC C7680 I002,I003,I004,TB3FB3-5..... 253

COC C7680 I005,TB4,FB6..... 273

COC C7680 I006,TB5,FB7..... 281

COC C7680 I007,I008,TB6,FB8,9..... 289

222-S LABORATORY

FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7680 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 August 26, 2010 and September 1, 2010. The report is a reissue of ATL-20100584 Rev.0 with changes based on the Report Comment Record received from the Vadose client (see Attachment 8). In addition the laboratory made the following changes:

- Attachment 6: Analytical Batch and Laboratory Sample Identification Number Index
- Unique HEIS identifiers (A, B, C,) have been added to the liner client sample numbers
- Bulk density results have been moved from Attachment 1 to Attachment 7
- "N" flag was applied to the sodium and barium results

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

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

Attachment 1	Data Summary Report
Attachment 2	Sample Breakdown Diagrams
Attachment 3	Holding Time Report
Attachment 4	Additional 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 with Bulk Density Results
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 eight core intervals and two surface grab samples from core hole C7680 along with nine field blanks and six trip blanks were received by the 222-S Laboratory between August 26, 2010 and September 1, 2010. The samples were delivered in a cooler with ice or, in the case of the volatile organic soil samples, in a freezer. The temperatures of the temperature blanks were measured and recorded on the sample receipt check list and/or the chain of custody form.

The chain of custody requested that conductivity be analyzed on the soil samples. Since this analysis was not listed in the SAP or FSAP, it was not performed. The client has indicated that this analysis may be performed later after a CCN is issued to cover the change to the FSAP (see Attachment 7).

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 along with the bulk density results are included in Attachment 7. Provided sufficient samples existed, the composite for each core interval was analyzed as described in the SAP and FSAP. One core interval, I002, had less than full recovery (see Attachment 2 and Attachment 9).

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 (MDA) for radionuclides.

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

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

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

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

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

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

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

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

The "Qual Flags" column in Attachment 1 contains data qualifier flags 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.

"T" for GC/MS results is used to indicate the matrix spike (MS) recovery or matrix spike duplicate (MSD) recovery is outside control limits.

"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 was digested depending on the analysis being performed. The digestate was then filtered and diluted to a final volume. This digestion was used for all radiochemical analyses except ^{3}H, ^{14}C, and ^{129}I. This digestion is a leach of the acid soluble species only.

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

This acid digestion follows SW-846 3050B using a heating block and nitric and hydrochloric acids. An aliquot of approximately 5 g of sample was digested. All heating-block digestions were filtered and diluted to a final volume of 50 mL. In soil, this digestion is a leach of the acid soluble species only. This digestion was used for all inductively coupled plasma/mass spectrometry (ICP/MS) and inductively coupled plasma/atomic emission spectroscopy (ICP/AES) analyses except for ^{99}Tc and isotopic tin (^{117}Sn and ^{126}Sn) analyses. The digestion is modified for the ^{99}Tc analysis by using only nitric acid. This is done to eliminate the possibility of the formation a zinc-chlorine ion pair of mass 99. The laboratory believes this ion, when present, is responsible for low level false positives. A separate digestion for antimony was prepared using additional hydrochloric acid, as recommended in SW-846.

3.1.3 Water Digestion

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

3.1.4 Vadose Water Digestion

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

3.2 INORGANIC ANALYSES

3.2.1 Cyanide

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

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

3.2.2 Sulfide

Sulfide analysis by distillation and ion selective electrode was performed on the grab samples and liner composite samples. All analyses met the SW-846 holding time of 7 days. There was no required reporting limit in the SAP for sulfide. The target detection limit was 5 µg/g. All sample results had adjusted MDLs of approximately 7 µg/g. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and QAPP were met.

3.2.3 pH Analysis

The pH analysis was performed on the grab samples and liner composite samples. These analyses met all QC requirements in the FSAP, SAP, and QAPP. The FSAP lists a pH holding time requirement of "as soon as possible." All pH measurements were taken after the water leach was performed. The sampling to analysis time varied from 19 to 25 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.

3.2.4 Mercury

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

3.2.5 Ion Chromatography – Ammonium

Analysis for ammonium was performed using a distillation preparation of the grab samples and the liner composite samples. There is no regulatory holding time limit promulgated for ammonium in soil. 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. All samples met these holding times. However, sample B26C26 did not produce usable results and is discussed below in batch 21960. These analyses met the target detection limit listed in the SAP. There was no required reporting limit in the SAP or FSAP for ammonium.

Batch 21732: 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 above the quantitation limit but at more than 5 times the level of the blank; therefore, these results have not been flagged with a "C".

Batch 21960: This batch experienced a major analytical error that was not discovered for several months. During the final review of this batch, which occurred several months after the analysis,

it was discovered that for sample B26C26, it appeared that the spike standard was added to both the sample and MS. All the samples for core hole C7680 were reanalyzed months past the holding, and it was obvious from the results that most of the original ammonium had dissipated and results were unusable. These issues were discussed with the client and it was agreed that no result should be reported for sample B26C26 (see Attachment 8). The seven remaining sample results in the original batch were reported. Ammonium was detected in the preparation blanks at a level above the quantitation limit. Ammonium was also detected in three of the samples above the quantitation limit but at more than 5 times the level of the blank. All results have not been flagged with a "C".

3.2.6 Ion Chromatography – Anions and Small Organic Acids

Ion chromatography analysis was performed on all grab samples and liner composite samples. The laboratory met all of the required and target detection limits. All analyses were within the applicable SW-846 holding times. The sample spikes used for the standard water digestions are predigestion spikes.

Batch 21990: The result for chloride in the preparation blank was slightly above the MDL and below the quantitation limit. All sample results were above the quantitation limit and were greater than 5 times the blank; therefore, no "C" flags were applied.

3.2.7 Inductively Coupled Plasma/Atomic Emission Spectroscopy

The ICP/AES analysis was performed on an acid-digest (SW-846 3050B) of all grab samples and liner composite samples. The ICP/AES analysis was unable to obtain the required detection limit for antimony, arsenic, cadmium, lead, selenium, silver, and thallium for the soil sample. 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. SW-846 lists the holding times for ICP/AES metals as 6 months. All analyses met the holding times. All primary metal constituents are reported. Secondary constituents are only reported if the results were above the MDL and had a valid calibration.

Batch 23817: The interference check standard-A produced positive results for phosphorous, neodymium, and manganese, which are not contained in this standard. This could indicate a positive interference. However, since in the interference check standard-AB (ICSAB) phosphorous and manganese were recovered at 100% and 99%, there appears to be no positive interference. The ICSAB also produced a result above the quantitation limit for neodymium. This indicates that spectral interference was occurring. Neodymium results in the sample were not reported due to the high probability that they were the result of this interference. A low level of iron was detected in the preparation blank, but reanalysis was not required since these levels were less than 20% of the lowest sample result.

The MS recoveries for aluminum, calcium, iron, magnesium, potassium, manganese, phosphorous, and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the

sample results for these elements exceeded the MS level by more than four times, this criterion does not apply.

The MS recovery for barium, sodium, silicon, strontium, and zirconium exceeded the ±25% requirement in the SAP and FSAP. These results have been flagged with an "N". The exact cause of these failures is unknown. Matrix interference is suspected for barium and zirconium since these commonly fail. However, since all duplicate results were higher than the sample results, analytical error cannot be ruled out. These results were discussed with the client and reported "as is" (see Attachment 8).

The RPD between the sample and the duplicate exceeded the ±30% requirement in the SAP for sodium, chromium, and strontium. These results have been flagged with an "M". The exact cause of these failures is unknown. Matrix interference is suspected; however, since all duplicate results were higher than the sample results, analytical error cannot be ruled out. These results were discussed with the client and reported "as is" (see Attachment 8).

The RPD between the sample and the duplicate exceeded the ±30% requirement in the SAP for silicon. The laboratory believes this was due to matrix interference. Reanalysis was not required since this is secondary element. It should be noted that silicon is not listed with other elements in SW-846 3050B, section 1.1, under "Scope and Application" for the method and does not perform consistently when using this digest. The silicon results have been flagged with an "M".

The method blank contained a low level of calcium and iron. Since the adjusted blank results were less than 20% of the lowest sample result, reanalysis was not required and no qualifier flag was applied.

3.2.8 Inductively Coupled Plasma/Mass Spectroscopy

The ICP/MS actinide and trace metal analyses were performed on the standard SW-846 3050 acid digestion of all grab samples and liner composite samples. The ICP/MS ^{126}Sn and ^{99}Tc analysis was performed on the sample digest without the addition of 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 SW-846 3050 digest with additional hydrochloric acid, which is required to keep antimony in the solution. In addition to these acid digests, ICP/MS ^{99}Tc analysis was performed on a vadose water digest of all solid samples.

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

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

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

3.2.8.1 Technetium-99 and Tin-126

The required detection limit listed in the SAP for ^{99}Tc was met. The target detection limit for ^{99}Tc was not met. There were no required or target detection limits for ^{126}Sn listed in the SAP. The SAP lists 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.

All sample results for ^{126}Sn were above the MDL and below the quantitation limit with one exception. Based on this, the laboratory suspects that a low level isobaric interference is present in these samples at mass 126. The laboratory has concluded that the most likely interferences are from the polyatomic ions, zirconium chloride, strontium argide, and yttrium chloride—all with mass of 126. Based on the client's instructions (see Attachment 8), samples with a positive result for ^{126}Sn have been flagged with an "E".

Batch 24040: The MS for ^{117}Sn was recovered below the ±25% requirement at 53%. Similar results have been observed in other batches; this appears to be a matrix interference issue. This batch was not reanalyzed, but others have been with no improvement. Tin results should be considered biased low at these levels. All samples in the batch have been flagged with an "N". The laboratory is investigating changing the acid mixture used to perform low level ^{126}Sn analysis in hopes of improving spike recoveries. Tin-126 was detected in two of the three continuing calibration blanks at slightly above the MDL. Since all results were below the quantification level, reanalysis was not required. The affected results have been flagged with a "B".

3.2.8.2 Technetium-99 (Vadose Water Digest)

The required and target detection limits listed in the SAP for ^{99}Tc were met. The SAP lists a holding time of 6 months for isotopic analytes. All analyses met this holding time. There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and QAPP were met.

3.2.8.3 Actinides

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

Batch 23367: The closing low level standard (LLS) for ^{235}U exceeded the ±30% limit at 169%. Since all ^{235}U results were at least 17 times the LLS level, the data usability was not affected. The preparation blank result for ^{236}U was slightly above the MDL. The samples had similar results that should be considered equivalent to the blank. The affected results have been flagged with a "B".

Batch 23808: One LLS for ^{232}Th exceeded the ±30% limit at 133%. Since all ^{232}Th results were at least 130 times the LLS level, the data quality was not affected. The preparation blank result for ^{230}Th was slightly above the MDL. The samples had similar results that should be considered equivalent to the blank. The affected results have been flagged with a "B".

3.2.8.4 Trace Metals

Antimony, arsenic, cadmium, lead, selenium, silver, and thallium were analyzed by ICP/MS to obtain the required detection limits in the SAP. 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 adjusted MDL for selenium was approximately 0.27 µg/g. SW-846 lists the holding time for metals as 6 months. All samples were analyzed within the holding time.

Batch 24457: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and QAPP were met.

Batch 22891: The LLS recoveries for antimony exceeded the ±30% limit at 177% and 166%. This would indicate a high bias for sample results near the LLS level. Since all sample results were below the RDL, the data usability was not affected.

Batch 24435: The closing LLS recovery for selenium exceeded the ±30% limit at 131%, which is believed to be due to carryover from the continuing calibration verification (CCV) standard, and impact on the data usability is minimal. The cadmium RPD exceeded the required ±30 in the FSAP and SAP at 31%. Since the sample result was below the quantitation limit, this criterion does not apply.

3.3 RADIOCHEMICAL ANALYSIS

The holding time listed in the SAP for radioactive isotopes is 6 months. The FSAP lists 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. 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.

3.3.1 Gamma Energy Analysis

GEA was performed directly on the grab samples and liner composite samples. The SAP requires the reporting of all isotopes with positive results above the MDA; therefore, isotopes additional to those required in the SAP were reported when detected. The GEA analysis met all

of the required detection limits in the SAP. The laboratory was unable to meet any of the target detection limits.

3.3.2 Strontium-89/90

Strontium-89/90 analysis was performed on the 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 the batch, and all QC requirements in the FSAP, SAP, and QAPP were met.

3.3.3 Tritium

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

3.3.4 Selenium-79

The ^{79}Se analysis by LSC was performed on the grab samples and liner composite samples. The analysis achieved the target detection limit in the FSAP. No required detection limit was listed. The analysis achieved the target detection limit. 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%.

Batch 24055: The preparation blank demonstrated a positive result below the quantitation limit, as did the four samples in the batch. All results had very large counting uncertainties and were below the target detection limit. Because of these factors, reanalysis was not required. The associated positive results have been flagged with a “B”.

3.3.5 Carbon-14

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

3.3.6 Nickel-63

The ^{63}Ni analysis by LSC was performed on the grab samples and liner composite samples. The analysis achieved the required and target detection limits in the FSAP. Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%. There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and QAPP were met.

3.3.7 Iodine-129

Analysis for ^{129}I by low energy GEA was performed on an iodine-specific fusion digest of all grab samples and liner composite samples. The required 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 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 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 QAPP were met. The required and target detection limits in the SAP were met. The SAP and FSAP requested ^{243}Cm and ^{244}Cm be reported separately. Since it is not possible to resolve these individual isotopes when using AEA, these isotopes have been 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 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 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 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. Nine field blanks and six 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. All primary organic

constituents are reported. Secondary and unlisted constituents are only reported if the results were above the MDL and had a validation calibration.

The VOA 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 8260C, 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). Isobutanol, another poor purger, was reported as a semivolatile organic compound.

Four of the field blanks and four of the trip blanks contained chloroform above the quantification level. Since chloroform is a common chlorination byproduct, the laboratory believes a likely the source of chloroform may be the water used by sampling personnel to make the various blanks.

Four of the field blank and two of the trip blanks contained methylene chloride above or near the quantification level. None of the associated laboratory blanks contained methylene chloride.

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.

Batches 21718, 21719, and 21897: The method blank results for toluene and styrene were above the MDL but below the quantitation limit. Some of the samples contained toluene and styrene at similar levels and have been flagged with at "B". Since all sample and blank results were below the quantitation limit, reanalysis was not required.

Batch 21786: The method blank result for toluene was above the MDL but below the quantitation limit. One of the samples contained toluene at a similar level and has been flagged with at "B". Since the sample and blank results were below the quantitation limit, reanalysis was not required. The percent difference for n-butanol in the CCV was +25%, which exceeds the ±20% difference requirement. This indicates a high bias; however, since all sample results were below the MDL, the data usability was not affected and reanalysis not required.

Batch 21922: The method blank result for toluene was above the MDL but below the quantitation limit. One of the samples contained toluene at a similar level and has been flagged with at "B". Since the sample and blank results were below the quantitation limit, reanalysis was not required. The internal standards for one sample, B26CW9 (S10V001852), were recovered low, ranging from -66% to -78%. This sample was analyzed two additional times using its own MS and MSD with similar results. The MS and MSD (not reported) for the sample exhibited normal internal standard recovery. In addition, the sample's surrogate recoveries, which are adjusted using the internal standards, hovered around 100%. This indicates that there may have been a spiking or sample introduction problem. Since the results for chloroform and methylene chloride were similar in the sample and MS and MSD, the results for these were reported from the original sample analysis.

Batch 21979: The method blank result for styrene was above the MDL but below the quantitation limit. The sample contained styrene at a similar level and has been flagged with a

"B". Since the sample and blank results were below the quantitation limit, reanalysis was not required. Styrene is not a primary analyte.

Batch 24659: The method blank result for benzene was above the MDL but below the quantitation limit. The sample contained benzene at a similar level and has been flagged with a "B". Since the sample and blank results were below the quantitation limit, reanalysis was not required.

3.4.2 Semivolatile Organic Analysis

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

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

- The adjusted MDLs for cyclohexanone were above the 0.5-mg/kg target detection limit for most samples. This compound obtained detection limits between 0.5 mg/kg 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 3-methylphenol and 4-methylpnenol 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 3&4 methylphenol.

Batches 22043 and 22254: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and QAPP were met.

Batch 22217: The MS recovery for 2,4-dinitrotoluene exceeded the statistical control limit of 55% to 111% at 114%. Since all sample results were below the MDL for this compound, the data usability was not affected

3.4.3 Tentatively Identified Compounds

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

After comparison to the Hanford library, remaining unknowns were compared to the National Institute of Standards and Technology's NIST 02, *HP Mass Spectral 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 5. TICs that were found in the field samples and were present in the associated batch method blank have been flagged with "B".

4.0 PROCEDURES

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

Table 2. Analytical Procedures

Analysis	Preparation Method	Analysis Procedure
Inorganic Analyses		
Cyanide	LA-695-103, Rev. J-0 (SW-846 9010C)	LA-695-103, Rev. J-0 (SW-846 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. H-0 (SW-846 9045D)	LA-212-105, Rev. H-0 (SW-846 9045D)
Mercury – Cold Vapor Atomic Absorption	LA-325-110, Rev. A-0 (SW-846 7471A)	LA-325-110, Rev. A-0 (SW-846 7471A)
Ammonia – IC	LA-544-112, Rev. E-0	LA-533-101, Rev. Q-0
Anions & Organic Acids – IC	LA-504-101, Rev. M-0	LA-533-115, Rev. J-0
Metals – ICP /AES	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-505-161, Rev. J-0-A (SW-846 6010C)
^{99}Tc, ^{126}Sn – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. F-1
^{99}Tc – ICP/MS	08-ATL-078 Vadose Water Digest	LA-506-103, Rev. B-0
Metals – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. F-1 LA-506-103, Rev. B-0 (SW-846 6020A)
Actinides – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. 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-220-101, Rev. I-0
^{3}H – LSC	LA-504-101, Rev. M-0	LA-218-111, Rev. H-0
^{14}C – LSC	LA-504-101, Rev. M-0	LA-348-104, Rev. I-0
^{79}Se – Separation/LSC	LA-544-101, Rev. F-0	LA-365-132, Rev. J-0
^{63}Ni – Separation/LSC	LA-544-101, Rev. F-0	LA-285-102, Rev. E-0

Analysis	Preparation Method	Analysis Procedure
^{129}I – Separation/GEA	LA-378-105, Rev. D-0	LA-378-105, Rev. D-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. H-O (SW-846 8260B)
SVOC – GC/MS	LA-523-138, Rev. G-0 (SW-846 3540C)	LA-523-135, Rev. D-0 (SW-846 8270C)

5.0 REFERENCES

ATL-MP-1011, 2010, *ATL Quality Assurance Project Plan for 222-S Laboratory*, Rev. 9, Advanced Technologies and Laboratories International, Inc., Richland, Washington.

NIST 02, 2002, *HP Mass Spectral Libraries*, July 2002 Release, Hewlett-Packard Company, Palo Alto, California.

SW-846, 1986, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods,* Third Edition, as amended, U.S. Environmental Protection Agency, Washington, D.C.

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

RPP-PLAN-38777, 2009, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C*, Rev. 1, Washington River Protection Solutions, Inc., Richland, Washington.

FEAD CP-15383, 2007 *Common Requirements of the Format for Electronic Analytical Data,* Rev. 8, CH2M Hill, Plateau Remediation Company, Richland, Washington.

Attachment 1

DATA SUMMARY REPORT

10 - Aug - 2011 14:40:22
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CV1
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
S10V001856		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
S10V001856		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
S10V001856		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
S10V001856		75-35-4	1,1-Dichloroethene	ug/L	99.3	<0.172	<0.191	n/a	n/a	n/a	102	0.191	n/a	U
S10V001856		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
S10V001856		71-36-3	1-Butanol	ug/L	92.8	<1.15	<1.28	n/a	n/a	n/a	99.6	1.28	n/a	U
S10V001856		591-78-6	2-Hexanone	ug/L	91.2	<0.454	<0.505	n/a	n/a	n/a	91.2	0.505	n/a	U
S10V001856		108-10-1	Hexone	ug/L	91.3	<0.453	<0.503	n/a	n/a	n/a	92.3	0.503	n/a	U
S10V001856		67-64-1	Acetone	ug/L	76.9	<0.573	<0.637	n/a	n/a	n/a	86.5	0.637	n/a	U
S10V001856		71-43-2	Benzene	ug/L	99.6	<0.0163	<0.0181	n/a	n/a	n/a	98.1	0.0181	n/a	U
S10V001856		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
S10V001856		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
S10V001856		67-66-3	Chloroform	ug/L	n/a	<0.0414	<0.0460	n/a	n/a	n/a	n/a	0.0460	n/a	U
S10V001856		108-90-7	Chlorobenzene	ug/L	101	<0.0320	<0.0356	n/a	n/a	n/a	97.3	0.0356	n/a	U
S10V001856		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
S10V001856		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
S10V001856		78-93-3	2-Butanone	ug/L	83.7	<0.458	<0.509	n/a	n/a	n/a	86.9	0.509	n/a	U
S10V001856		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
S10V001856		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
S10V001856		108-88-3	Toluene	ug/L	102	0.0881	<0.0580	n/a	n/a	n/a	97.4	0.0580	n/a	U
S10V001856		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
S10V001856		79-01-6	Trichloroethene	ug/L	99.8	<0.0378	<0.0420	n/a	n/a	n/a	96.7	0.0420	n/a	U
S10V001856		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
S10V001856		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
S10V001856		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
S10V001856		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
S10V001856		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
S10V001856		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
S10V001856		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

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

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CV1

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
S10V001856			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
S10V001856			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
S10V001856			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

T - MS/MSD Outside Range
U - Less Than Detection Limit
M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

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DSR.Jar v. 2.7.27

Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CV2
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
S10V001865		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
S10V001865		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
S10V001865		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
S10V001865		75-35-4	1,1-Dichloroethene	ug/L	97.5	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001865		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
S10V001865		71-36-3	1-Butanol	ug/L	94.6	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001865		108-10-1	Hexone	ug/L	92.4	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001865		67-64-1	Acetone	ug/L	84.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001865		71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V001865		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
S10V001865		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
S10V001865		67-66-3	Chloroform	ug/L	n/a	<0.0414	0.823	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V001865		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
S10V001865		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
S10V001865		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
S10V001865		78-93-3	2-Butanone	ug/L	86.3	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001865		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
S10V001865		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
S10V001865		108-88-3	Toluene	ug/L	98.9	0.0791	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V001865		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
S10V001865		79-01-6	Trichloroethene	ug/L	103	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001865		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
S10V001865		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
S10V001865		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
S10V001865		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
S10V001865		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
S10V001865		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
S10V001865		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
S10V001865		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

NA = Not Analyzed, ND = Not Detected

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

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CV2

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
S10V001865			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
S10V001865			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

T - MS/MSD Outside Range
U - Less Than Detection Limit
M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

10 - Aug - 2011 14:40:22
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Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CV3
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
S10V001857			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
S10V001857			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
S10V001857			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
S10V001857			75-35-4	1,1-Dichloroethene	ug/L	97.5	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001857			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
S10V001857			71-36-3	1-Butanol	ug/L	94.6	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001857			108-10-1	Hexone	ug/L	92.4	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001857			67-64-1	Acetone	ug/L	84.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001857			71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V001857			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
S10V001857			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
S10V001857			67-66-3	Chloroform	ug/L	n/a	<0.0414	<0.0460	n/a	n/a	n/a	n/a	0.0460	n/a	U
S10V001857			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
S10V001857			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
S10V001857			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
S10V001857			74-87-3	Chloromethane	ug/L	n/a	<0.0275	0.438	n/a	n/a	n/a	n/a	0.0306	n/a	
S10V001857			78-93-3	2-Butanone	ug/L	86.3	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001857			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
S10V001857			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
S10V001857			108-88-3	Toluene	ug/L	98.9	0.0791	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V001857			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
S10V001857			79-01-6	Trichloroethene	ug/L	103	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001857			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
S10V001857			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
S10V001857			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
S10V001857			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
S10V001857			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
S10V001857			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
S10V001857			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C - Blank Contamination
E - Estimated by Interference
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B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CV3

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
S10V001857			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
S10V001857			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
S10V001857			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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J - Estimated

B - Estimated
N - MS/MSD Outside Range

10 - Aug - 2011 14:40:22
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Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CV4
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
S10V001858			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
S10V001858			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
S10V001858			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
S10V001858			75-35-4	1,1-Dichloroethene	ug/L	117	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001858			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
S10V001858			71-36-3	1-Butanol	ug/L	92.0	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001858			591-78-6	2-Hexanone	ug/L	100	<0.454	0.883	n/a	n/a	n/a	n/a	0.505	n/a	J
S10V001858			108-10-1	Hexone	ug/L	102	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001858			67-64-1	Acetone	ug/L	94.5	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001858			71-43-2	Benzene	ug/L	109	0.0410	0.0646	n/a	n/a	n/a	n/a	0.0181	n/a	BJ
S10V001858			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
S10V001858			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
S10V001858			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.734	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V001858			108-90-7	Chlorobenzene	ug/L	104	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V001858			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
S10V001858			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
S10V001858			78-93-3	2-Butanone	ug/L	95.3	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001858			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
S10V001858			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
S10V001858			108-88-3	Toluene	ug/L	106	<0.0522	0.0786	n/a	n/a	n/a	n/a	0.0580	n/a	J
S10V001858			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
S10V001858			79-01-6	Trichloroethene	ug/L	110	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001858			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
S10V001858			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
S10V001858			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
S10V001858			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
S10V001858			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
S10V001858			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
S10V001858			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C - Blank Contamination
E - Estimated by Interference
J - Estimated
B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CV4

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
S10V001858			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
S10V001858			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
S10V001858			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

10 - Aug - 2011 14:40:22
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Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CV5
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
S10V001859			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
S10V001859			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
S10V001859			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
S10V001859			75-35-4	1,1-Dichloroethene	ug/L	88.8	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001859			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
S10V001859			71-36-3	1-Butanol	ug/L	102	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001859			108-10-1	Hexone	ug/L	96.7	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001859			67-64-1	Acetone	ug/L	86.0	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001859			71-43-2	Benzene	ug/L	96.9	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V001859			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
S10V001859			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
S10V001859			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.696	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V001859			108-90-7	Chlorobenzene	ug/L	97.7	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V001859			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
S10V001859			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
S10V001859			74-87-3	Chloromethane	ug/L	n/a	<0.0275	0.465	n/a	n/a	n/a	n/a	0.0306	n/a	
S10V001859			78-93-3	2-Butanone	ug/L	88.9	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001859			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
S10V001859			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
S10V001859			108-88-3	Toluene	ug/L	99.1	0.0613	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V001859			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
S10V001859			79-01-6	Trichloroethene	ug/L	96.2	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001859			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
S10V001859			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
S10V001859			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
S10V001859			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
S10V001859			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
S10V001859			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
S10V001859			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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J - Estimated
B - Estimated
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Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CV5

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
S10V001859			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
S10V001859			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
S10V001859			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

T - MS/MSD Outside Range
U - Less Than Detection Limit
M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CV6
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
S10V001860			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
S10V001860			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
S10V001860			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
S10V001860			75-35-4	1,1-Dichloroethene	ug/L	88.8	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001860			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
S10V001860			71-36-3	1-Butanol	ug/L	102	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001860			108-10-1	Hexone	ug/L	96.7	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001860			67-64-1	Acetone	ug/L	86.0	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001860			71-43-2	Benzene	ug/L	96.9	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V001860			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
S10V001860			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
S10V001860			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.503	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V001860			108-90-7	Chlorobenzene	ug/L	97.7	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V001860			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
S10V001860			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
S10V001860			78-93-3	2-Butanone	ug/L	88.9	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001860			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
S10V001860			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
S10V001860			108-88-3	Toluene	ug/L	99.1	0.0613	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V001860			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
S10V001860			79-01-6	Trichloroethene	ug/L	96.2	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001860			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
S10V001860			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
S10V001860			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
S10V001860			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
S10V001860			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
S10V001860			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
S10V001860			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
S10V001860			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

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

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CV6

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
S10V001860			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
S10V001860			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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U - Less Than Detection Limit
M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CW2
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
S10V001846		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
S10V001846		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
S10V001846		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
S10V001846		75-35-4	1,1-Dichloroethene	ug/L	99.3	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001846		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
S10V001846		71-36-3	1-Butanol	ug/L	92.8	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001846		108-10-1	Hexone	ug/L	91.3	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001846		67-64-1	Acetone	ug/L	76.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001846		71-43-2	Benzene	ug/L	99.6	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V001846		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
S10V001846		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
S10V001846		67-66-3	Chloroform	ug/L	n/a	<0.0414	<0.0460	n/a	n/a	n/a	n/a	0.0460	n/a	U
S10V001846		108-90-7	Chlorobenzene	ug/L	101	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V001846		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
S10V001846		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
S10V001846		74-87-3	Chloromethane	ug/L	n/a	<0.0275	0.221	n/a	n/a	n/a	n/a	0.0306	n/a	J
S10V001846		78-93-3	2-Butanone	ug/L	83.7	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001846		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
S10V001846		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
S10V001846		108-88-3	Toluene	ug/L	102	0.0881	0.0682	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V001846		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
S10V001846		79-01-6	Trichloroethene	ug/L	99.8	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001846		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
S10V001846		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
S10V001846		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
S10V001846		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
S10V001846		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
S10V001846		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
S10V001846		60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CW2

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
S10V001846			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
S10V001846			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
S10V001846			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
S10V001846			110-82-7	Cyclohexane	ug/L	n/a	<0.0319	0.381	n/a	n/a	n/a	n/a	0.0354	n/a	

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C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CW3
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
S10V001855		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
S10V001855		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
S10V001855		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
S10V001855		75-35-4	1,1-Dichloroethene	ug/L	97.5	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001855		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
S10V001855		71-36-3	1-Butanol	ug/L	94.6	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001855		108-10-1	Hexone	ug/L	92.4	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001855		67-64-1	Acetone	ug/L	84.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001855		71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V001855		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
S10V001855		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
S10V001855		67-66-3	Chloroform	ug/L	n/a	<0.0414	0.754	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V001855		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
S10V001855		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
S10V001855		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
S10V001855		78-93-3	2-Butanone	ug/L	86.3	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001855		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
S10V001855		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
S10V001855		108-88-3	Toluene	ug/L	98.9	0.0791	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V001855		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
S10V001855		79-01-6	Trichloroethene	ug/L	103	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001855		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
S10V001855		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
S10V001855		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
S10V001855		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
S10V001855		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
S10V001855		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
S10V001855		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
S10V001855		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

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B - Blank Contamination
C - Blank Contamination
E - Estimated by Interference
J - Estimated
B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CW3

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
S10V001855			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
S10V001855			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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T - MS/MSD Outside Range
U - Less Than Detection Limit
M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CW4
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
S10V001847		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
S10V001847		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
S10V001847		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
S10V001847		75-35-4	1,1-Dichloroethene	ug/L	97.5	<0.172	<0.191	n/a	n/a	n/a	95.6	0.191	n/a	U
S10V001847		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
S10V001847		71-36-3	1-Butanol	ug/L	94.6	<1.15	<1.28	n/a	n/a	n/a	105	1.28	n/a	U
S10V001847		108-10-1	Hexone	ug/L	92.4	<0.453	<0.503	n/a	n/a	n/a	93.8	0.503	n/a	U
S10V001847		67-64-1	Acetone	ug/L	84.9	<0.573	<0.637	n/a	n/a	n/a	91.1	0.637	n/a	U
S10V001847		71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	100	0.0181	n/a	U
S10V001847		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
S10V001847		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
S10V001847		67-66-3	Chloroform	ug/L	n/a	<0.0414	<0.0460	n/a	n/a	n/a	n/a	0.0460	n/a	U
S10V001847		108-90-7	Chlorobenzene	ug/L	99.3	<0.0320	<0.0356	n/a	n/a	n/a	96.6	0.0356	n/a	U
S10V001847		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
S10V001847		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
S10V001847		78-93-3	2-Butanone	ug/L	86.3	<0.458	<0.509	n/a	n/a	n/a	93.1	0.509	n/a	U
S10V001847		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
S10V001847		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
S10V001847		108-88-3	Toluene	ug/L	98.9	0.0791	<0.0580	n/a	n/a	n/a	97.3	0.0580	n/a	U
S10V001847		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
S10V001847		79-01-6	Trichloroethene	ug/L	103	<0.0378	<0.0420	n/a	n/a	n/a	100	0.0420	n/a	U
S10V001847		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
S10V001847		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
S10V001847		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
S10V001847		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
S10V001847		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
S10V001847		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
S10V001847		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
S10V001847		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

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

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CW4

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
S10V001847			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
S10V001847			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
S10V001847			110-82-7	Cyclohexane	ug/L	n/a	<0.0319	0.210	n/a	n/a	n/a	n/a	0.0354	n/a	J

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B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CW5
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
S10V001848		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
S10V001848		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
S10V001848		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
S10V001848		75-35-4	1,1-Dichloroethene	ug/L	97.5	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001848		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
S10V001848		71-36-3	1-Butanol	ug/L	94.6	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001848		108-10-1	Hexone	ug/L	92.4	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001848		67-64-1	Acetone	ug/L	84.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001848		71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V001848		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
S10V001848		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
S10V001848		67-66-3	Chloroform	ug/L	n/a	<0.0414	<0.0460	n/a	n/a	n/a	n/a	0.0460	n/a	U
S10V001848		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
S10V001848		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
S10V001848		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
S10V001848		78-93-3	2-Butanone	ug/L	86.3	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001848		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
S10V001848		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
S10V001848		108-88-3	Toluene	ug/L	98.9	0.0791	0.0791	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V001848		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
S10V001848		79-01-6	Trichloroethene	ug/L	103	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001848		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
S10V001848		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
S10V001848		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
S10V001848		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
S10V001848		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
S10V001848		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
S10V001848		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
S10V001848		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

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C - Blank Contamination
E - Estimated by Interference
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B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CW5

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
S10V001848			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
S10V001848			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
S10V001848			110-82-7	Cyclohexane	ug/L	n/a	<0.0319	0.221	n/a	n/a	n/a	n/a	0.0354	n/a	J

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C - Blank Contamination

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J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CW6
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
S10V001849			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
S10V001849			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
S10V001849			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
S10V001849			75-35-4	1,1-Dichloroethene	ug/L	97.5	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001849			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
S10V001849			71-36-3	1-Butanol	ug/L	94.6	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001849			108-10-1	Hexone	ug/L	92.4	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001849			67-64-1	Acetone	ug/L	84.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001849			71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V001849			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
S10V001849			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
S10V001849			67-66-3	Chloroform	ug/L	n/a	<0.0414	<0.0460	n/a	n/a	n/a	n/a	0.0460	n/a	U
S10V001849			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
S10V001849			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
S10V001849			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
S10V001849			78-93-3	2-Butanone	ug/L	86.3	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001849			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
S10V001849			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
S10V001849			108-88-3	Toluene	ug/L	98.9	0.0791	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V001849			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
S10V001849			79-01-6	Trichloroethene	ug/L	103	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001849			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
S10V001849			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
S10V001849			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
S10V001849			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
S10V001849			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
S10V001849			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
S10V001849			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
S10V001849			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

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C - Blank Contamination

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B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CW6

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
S10V001849			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
S10V001849			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CW7
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
S10V001850		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
S10V001850		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
S10V001850		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
S10V001850		75-35-4	1,1-Dichloroethene	ug/L	97.5	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001850		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
S10V001850		71-36-3	1-Butanol	ug/L	94.6	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001850		108-10-1	Hexone	ug/L	92.4	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001850		67-64-1	Acetone	ug/L	84.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001850		71-43-2	Benzene	ug/L	101	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V001850		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
S10V001850		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
S10V001850		67-66-3	Chloroform	ug/L	n/a	<0.0414	0.727	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V001850		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
S10V001850		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
S10V001850		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
S10V001850		78-93-3	2-Butanone	ug/L	86.3	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001850		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
S10V001850		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
S10V001850		108-88-3	Toluene	ug/L	98.9	0.0791	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V001850		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
S10V001850		79-01-6	Trichloroethene	ug/L	103	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001850		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
S10V001850		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
S10V001850		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
S10V001850		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
S10V001850		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
S10V001850		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
S10V001850		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
S10V001850		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

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U - Less Than Detection Limit
M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CW7

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
S10V001850			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
S10V001850			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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B - Blank Contamination
C - Blank Contamination

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J - Estimated

B - Estimated
N - MS/MSD Outside Range

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Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CW8
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
S10V001851			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
S10V001851			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
S10V001851			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
S10V001851			75-35-4	1,1-Dichloroethene	ug/L	88.8	<0.172	<0.191	n/a	n/a	n/a	87.7	0.191	n/a	U
S10V001851			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
S10V001851			71-36-3	1-Butanol	ug/L	102	<1.15	<1.28	n/a	n/a	n/a	107	1.28	n/a	U
S10V001851			108-10-1	Hexone	ug/L	96.7	<0.453	<0.503	n/a	n/a	n/a	106	0.503	n/a	U
S10V001851			67-64-1	Acetone	ug/L	86.0	<0.573	2.36	n/a	n/a	n/a	89.6	0.637	n/a	J
S10V001851			71-43-2	Benzene	ug/L	96.9	<0.0163	0.0659	n/a	n/a	n/a	94.3	0.0181	n/a	J
S10V001851			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
S10V001851			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
S10V001851			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.626	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V001851			108-90-7	Chlorobenzene	ug/L	97.7	<0.0320	<0.0356	n/a	n/a	n/a	98.4	0.0356	n/a	U
S10V001851			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
S10V001851			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
S10V001851			74-87-3	Chloromethane	ug/L	n/a	<0.0275	0.590	n/a	n/a	n/a	n/a	0.0306	n/a	
S10V001851			78-93-3	2-Butanone	ug/L	88.9	<0.458	<0.509	n/a	n/a	n/a	98.5	0.509	n/a	U
S10V001851			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
S10V001851			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
S10V001851			108-88-3	Toluene	ug/L	99.1	0.0613	0.138	n/a	n/a	n/a	98.5	0.0580	n/a	BJ
S10V001851			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
S10V001851			79-01-6	Trichloroethene	ug/L	96.2	<0.0378	<0.0420	n/a	n/a	n/a	94.4	0.0420	n/a	U
S10V001851			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
S10V001851			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
S10V001851			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
S10V001851			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
S10V001851			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
S10V001851			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
S10V001851			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C - Blank Contamination
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B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CW8

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
S10V001851			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
S10V001851			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
S10V001851			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CW9
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
S10V001852		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
S10V001852		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
S10V001852		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
S10V001852		75-35-4	1,1-Dichloroethene	ug/L	88.8	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001852		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
S10V001852		71-36-3	1-Butanol	ug/L	102	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001852		108-10-1	Hexone	ug/L	96.7	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001852		67-64-1	Acetone	ug/L	86.0	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001852		71-43-2	Benzene	ug/L	96.9	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V001852		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
S10V001852		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
S10V001852		67-66-3	Chloroform	ug/L	n/a	<0.0414	0.407	n/a	n/a	n/a	n/a	0.0460	n/a	J
S10V001852		108-90-7	Chlorobenzene	ug/L	97.7	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V001852		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
S10V001852		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
S10V001852		74-87-3	Chloromethane	ug/L	n/a	<0.0275	0.843	n/a	n/a	n/a	n/a	0.0306	n/a	
S10V001852		78-93-3	2-Butanone	ug/L	88.9	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001852		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
S10V001852		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
S10V001852		108-88-3	Toluene	ug/L	99.1	0.0613	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V001852		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
S10V001852		79-01-6	Trichloroethene	ug/L	96.2	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001852		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
S10V001852		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
S10V001852		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
S10V001852		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
S10V001852		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
S10V001852		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
S10V001852		60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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C - Blank Contamination

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B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CW9

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
S10V001852			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
S10V001852			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
S10V001852			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100583
Core Number: C7680
Customer Sample ID: B26CX0
Sample Depth: Field Blank 9

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001853			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
S10V001853			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
S10V001853			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
S10V001853			75-35-4	1,1-Dichloroethene	ug/L	88.8	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V001853			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
S10V001853			71-36-3	1-Butanol	ug/L	102	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V001853			108-10-1	Hexone	ug/L	96.7	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V001853			67-64-1	Acetone	ug/L	86.0	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V001853			71-43-2	Benzene	ug/L	96.9	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V001853			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
S10V001853			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
S10V001853			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.479	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V001853			108-90-7	Chlorobenzene	ug/L	97.7	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V001853			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
S10V001853			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
S10V001853			74-87-3	Chloromethane	ug/L	n/a	<0.0275	0.343	n/a	n/a	n/a	n/a	0.0306	n/a	
S10V001853			78-93-3	2-Butanone	ug/L	88.9	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V001853			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
S10V001853			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
S10V001853			108-88-3	Toluene	ug/L	99.1	0.0613	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V001853			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
S10V001853			79-01-6	Trichloroethene	ug/L	96.2	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V001853			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
S10V001853			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
S10V001853			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
S10V001853			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
S10V001853			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
S10V001853			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
S10V001853			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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Data Summary Report

Sample Group: 20100583

Core Number: C7680

Customer Sample ID: B26CX0

Sample Depth: Field Blank 9

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001853		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
S10V001853		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
S10V001853		179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26JK8
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001869			%WATERA	%WATER-APD	%	n/a	n/a	4.130	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V001869			57-12-5	Cyanide	ug/g	89.7	<0.0370	<2.66	<2.64	n/a	n/a	95.2	2.66	n/a	U
S10V001869			7439-97-6	Mercury	ug/g	96.3	<1.00E-04	<9.37E-03	n/a	n/a	n/a	91.4	9.37E-03	n/a	U
S10V001869			PH	pH	unitless	n/a	n/a	8.68	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V001869			12597-04-5	Sulfide	ug/g	96.1	<0.180	28.9	n/a	n/a	n/a	n/a	7.08	n/a	B
S10V001871			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.30E-05	n/a	n/a	n/a	n/a	5.90E-06	30.69	
S10V001871			10198-40-0	Cobalt-60	uCi/g	99.1	<2.73E-07	<3.18E-07	n/a	n/a	n/a	n/a	3.18E-07	n/a	U
S10V001871			14234-35-6	Antimony-125	uCi/g	n/a	<7.34E-07	<7.88E-07	n/a	n/a	n/a	n/a	7.88E-07	n/a	U
S10V001871			10045-97-3	Cesium-137	uCi/g	101	<3.64E-07	<4.00E-07	n/a	n/a	n/a	n/a	4.00E-07	n/a	U
S10V001871			14683-23-9	Europium-152	uCi/g	n/a	<1.35E-06	<1.48E-06	n/a	n/a	n/a	n/a	1.48E-06	n/a	U
S10V001871			15585-10-1	Europium-154	uCi/g	n/a	<8.57E-07	<1.02E-06	n/a	n/a	n/a	n/a	1.02E-06	n/a	U
S10V001871			14391-16-3	Europium-155	uCi/g	n/a	<4.62E-07	<4.96E-07	n/a	n/a	n/a	n/a	4.96E-07	n/a	U
S10V001871			15092-94-1	Lead-212	uCi/g	n/a	n/a	6.02E-07	n/a	n/a	n/a	n/a	3.63E-07	30.19	
S10V001871			14733-03-0	Bismuth-214	uCi/g	n/a	n/a	8.81E-07	n/a	n/a	n/a	n/a	6.28E-07	43.51	
S10V001871			14274-82-9	Thorium-228	uCi/g	n/a	<8.13E-06	<9.50E-06	n/a	n/a	n/a	n/a	9.50E-06	n/a	U
S10V001871			15065-10-8	Thorium-234	uCi/g	n/a	<2.85E-06	<3.24E-06	n/a	n/a	n/a	n/a	3.24E-06	n/a	U
S10V001871			15046-84-1	Iodine-129	uCi/g	115	<1.59E-07	<1.35E-07	n/a	n/a	n/a	n/a	1.35E-07	n/a	U
S10V001872		WV	14133-76-7	Technetium-99	ug/g	110	<4.00E-06	<3.94E-06	n/a	n/a	n/a	n/a	3.94E-06	n/a	U
S10V001873		W	14762-75-5	Carbon-14	uCi/g	91.6	<1.40E-06	<1.41E-06	<1.39E-06	n/a	n/a	93.0	1.40E-06	n/a	U
S10V001873		W	10028-17-8	Tritium	uCi/g	92.9	<3.75E-07	7.58E-05	<6.31E-05	n/a	n/a	96.9	5.14E-05	127.555	
S10V001874		A	7440-36-0	Antimony	ug/g	102	<2.00E-04	0.214	0.203	0.208	5.04	95.5	9.58E-03	n/a	B
S10V001875		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	54.5	<77.4	<74.5	n/a	n/a	n/a	51.2	74.5	n/a	U
S10V001875		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<96.9	n/a	n/a	n/a	n/a	96.9	n/a	U
S10V001875		O	121-14-2	2,4-Dinitrotoluene	ug/kg	83.2	<38.1	<36.7	n/a	n/a	n/a	81.2	36.7	n/a	U
S10V001875		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<42.3	n/a	n/a	n/a	n/a	42.3	n/a	U
S10V001875		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S10V001875		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<55.3	n/a	n/a	n/a	n/a	55.3	n/a	U
S10V001875		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<51.7	n/a	n/a	n/a	n/a	51.7	n/a	U
S10V001875		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26JK8
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001875	O	83-32-9	Acenaphthene	ug/kg	67.5	<17.6	<16.9	n/a	n/a	n/a	63.7	16.9	n/a	U
S10V001875	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.4	n/a	n/a	n/a	n/a	36.4	n/a	U
S10V001875	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.1	n/a	n/a	n/a	n/a	47.1	n/a	U
S10V001875	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.6	n/a	n/a	n/a	n/a	39.6	n/a	U
S10V001875	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<568	n/a	n/a	n/a	n/a	568	n/a	U
S10V001875	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S10V001875	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U
S10V001875	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.4	<43.2	<41.6	n/a	n/a	n/a	56.8	41.6	n/a	U
S10V001875	O	95-57-8	2-Chlorophenol	ug/kg	59.1	<66.5	<64.0	n/a	n/a	n/a	55.3	64.0	n/a	U
S10V001875	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<78.3	n/a	n/a	n/a	n/a	78.3	n/a	U
S10V001875	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S10V001875	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<541	n/a	n/a	n/a	n/a	541	n/a	U
S10V001875	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<45.9	n/a	n/a	n/a	n/a	45.9	n/a	U
S10V001875	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	59.3	<58.1	<55.9	n/a	n/a	n/a	53.7	55.9	n/a	U
S10V001875	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.1	n/a	n/a	n/a	n/a	34.1	n/a	U
S10V001875	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<67.1	n/a	n/a	n/a	n/a	67.1	n/a	U
S10V001875	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V001875	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S10V001875	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<60.2	n/a	n/a	n/a	n/a	60.2	n/a	U
S10V001875	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S10V001875	O	129-00-0	Pyrene	ug/kg	74.8	<62.9	<60.5	n/a	n/a	n/a	80.8	60.5	n/a	U
S10V001875	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S10V001875	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S10V001875	O	128-37-0	BHT	ug/kg	n/a	<236	<227	n/a	n/a	n/a	n/a	227	n/a	U
S10V001875	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<176	n/a	n/a	n/a	n/a	176	n/a	U
S10V001875	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U
S10V001875	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<537	n/a	n/a	n/a	n/a	537	n/a	U
S10V001875	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<184	n/a	n/a	n/a	n/a	184	n/a	U
S10V001875	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<443	n/a	n/a	n/a	n/a	443	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26JK8
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001876	W	16984-48-8	Fluoride	ug/g	101	<1.61E-03	0.846	1.13	0.988	28.8	100	0.0158	n/a	
S10V001876	W	GLYCOLAT	Glycolate	ug/g	99.6	<9.37E-03	<0.0920	<0.0930	n/a	n/a	93.9	0.0920	n/a	U
S10V001876	W	71-50-1	Acetate	ug/g	97.2	<6.04E-03	<0.0593	<0.0599	n/a	n/a	96.5	0.0593	n/a	U
S10V001876	W	FORMATE	Formate	ug/g	101	<4.67E-03	0.126	0.195	0.160	42.5	95.5	0.0458	n/a	B
S10V001876	W	16887-00-6	Chloride	ug/g	99.4	0.0107	4.50	4.58	4.54	1.75	92.2	0.0979	n/a	
S10V001876	W	14797-65-0	Nitrite	ug/g	100	<0.0192	0.232	0.895	0.564	118	94.2	0.188	n/a	B
S10V001876	W	14808-79-8	Sulfate	ug/g	101	<0.0187	2.59	2.89	2.74	11.2	95.3	0.184	n/a	B
S10V001876	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.227	<0.229	n/a	n/a	94.9	0.227	n/a	U
S10V001876	W	24959-67-9	Bromide	ug/g	98.4	<0.0580	<0.569	<0.575	n/a	n/a	92.5	0.569	n/a	U
S10V001876	W	14797-55-8	Nitrate	ug/g	99.2	<0.0208	10.8	11.3	11.1	4.08	93.0	0.204	n/a	
S10V001876	W	14265-44-2	Phosphate	ug/g	99.0	<0.0167	0.875	1.14	1.01	25.9	88.2	0.164	n/a	B
S10V001877	A	7429-90-5	Aluminum	ug/g	98.0	<0.0300	7.31E+03	n/a	n/a	n/a	n/a	2.96	n/a	
S10V001877	A	7440-39-3	Barium	ug/g	88.6	<3.00E-03	77.7	n/a	n/a	n/a	n/a	0.296	n/a	N
S10V001877	A	7440-41-7	Beryllium	ug/g	89.5	<1.00E-03	0.190	n/a	n/a	n/a	n/a	0.0986	n/a	B
S10V001877	A	7440-70-2	Calcium	ug/g	89.6	0.101	9.44E+03	n/a	n/a	n/a	n/a	4.93	n/a	
S10V001877	A	7440-45-1	Cerium	ug/g	92.7	<0.0300	22.8	n/a	n/a	n/a	n/a	2.96	n/a	BN
S10V001877	A	7440-48-4	Cobalt	ug/g	80.7	<0.0100	8.14	n/a	n/a	n/a	n/a	0.986	n/a	B
S10V001877	A	7440-47-3	Chromium	ug/g	80.7	<5.00E-03	9.09	n/a	n/a	n/a	n/a	0.493	n/a	M
S10V001877	A	7440-50-8	Copper	ug/g	90.0	<5.00E-03	11.3	n/a	n/a	n/a	n/a	0.493	n/a	
S10V001877	A	7439-89-6	Iron	ug/g	83.3	0.0115	2.23E+04	n/a	n/a	n/a	n/a	0.493	n/a	
S10V001877	A	7440-09-7	Potassium	ug/g	94.0	<0.500	1.07E+03	n/a	n/a	n/a	n/a	49.3	n/a	
S10V001877	A	7439-91-0	Lanthanum	ug/g	90.2	<3.00E-03	10.1	n/a	n/a	n/a	n/a	0.296	n/a	
S10V001877	A	7439-93-2	Lithium	ug/g	88.9	<3.00E-03	7.81	n/a	n/a	n/a	n/a	0.296	n/a	
S10V001877	A	7439-95-4	Magnesium	ug/g	96.8	<0.0500	5.07E+03	n/a	n/a	n/a	n/a	4.93	n/a	
S10V001877	A	7439-96-5	Manganese	ug/g	80.2	<3.00E-03	332	n/a	n/a	n/a	n/a	0.296	n/a	
S10V001877	A	7439-98-7	Molybdenum	ug/g	82.2	<0.0200	<1.97	n/a	n/a	n/a	n/a	1.97	n/a	U
S10V001877	A	7440-23-5	Sodium	ug/g	87.1	<0.100	229	n/a	n/a	n/a	n/a	9.86	n/a	NM
S10V001877	A	7440-02-0	Nickel	ug/g	98.9	<0.0200	11.1	n/a	n/a	n/a	n/a	1.97	n/a	B
S10V001877	A	7723-14-0	Phosphorus	ug/g	81.1	<0.0500	801	n/a	n/a	n/a	n/a	4.93	n/a	

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26JK8
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001877	A	7704-34-9	Sulfur	ug/g	81.2	<0.100	68.3	n/a	n/a	n/a	n/a	9.86	n/a	B
S10V001877	A	7440-21-3	Silicon	ug/g	94.7	<0.0300	69.5	n/a	n/a	n/a	n/a	2.96	n/a	NM
S10V001877	A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	32.6	n/a	n/a	n/a	n/a	0.296	n/a	NM
S10V001877	A	7440-32-6	Titanium	ug/g	82.5	<5.00E-03	1.58E+03	n/a	n/a	n/a	n/a	0.493	n/a	
S10V001877	A	7440-62-2	Vanadium	ug/g	84.5	<5.00E-03	53.4	n/a	n/a	n/a	n/a	0.493	n/a	
S10V001877	A	7440-33-7	Tungsten	ug/g	83.8	<0.200	39.5	n/a	n/a	n/a	n/a	19.7	n/a	B
S10V001877	A	7440-65-5	Yttrium	ug/g	82.8	<2.00E-03	9.05	n/a	n/a	n/a	n/a	0.197	n/a	
S10V001877	A	7440-66-6	Zinc	ug/g	81.5	<5.00E-03	43.0	n/a	n/a	n/a	n/a	0.493	n/a	
S10V001877	A	7440-67-7	Zirconium	ug/g	99.0	<5.00E-03	12.8	n/a	n/a	n/a	n/a	0.493	n/a	N
S10V001877	A	14269-63-7	Thorium-230	ug/g	n/a	4.16E-06	<2.80E-05	n/a	n/a	n/a	n/a	2.80E-05	n/a	U
S10V001877	A	TH-232	Thorium-232	ug/g	107	<2.00E-04	2.91	n/a	n/a	n/a	n/a	2.00E-03	n/a	
S10V001877	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.49E-04	n/a	n/a	n/a	n/a	3.94E-05	n/a	
S10V001877	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	5.55E-05	n/a	n/a	n/a	n/a	1.97E-05	n/a	
S10V001877	A	15117-96-1	Uranium-235	ug/g	97.2	<4.00E-06	3.24E-03	n/a	n/a	n/a	n/a	3.94E-05	n/a	
S10V001877	A	13982-70-2	Uranium-236	ug/g	n/a	1.62E-06	<1.58E-05	n/a	n/a	n/a	n/a	1.58E-05	n/a	U
S10V001877	A	13994-20-2	Neptunium-237	ug/g	100	<4.00E-05	<3.94E-04	n/a	n/a	n/a	n/a	3.94E-04	n/a	U
S10V001877	A	U-238	Uranium-238	ug/g	106	<2.00E-04	0.467	n/a	n/a	n/a	n/a	1.97E-03	n/a	
S10V001877	A	7440-22-4	Silver	ug/g	119	<4.00E-04	0.0667	n/a	n/a	n/a	n/a	3.94E-03	n/a	
S10V001877	A	7440-38-2	Arsenic	ug/g	106	<8.40E-03	4.92	n/a	n/a	n/a	n/a	0.0828	n/a	
S10V001877	A	7440-43-9	Cadmium	ug/g	107	<1.80E-03	0.0848	n/a	n/a	n/a	n/a	0.0118	n/a	B
S10V001877	A	7439-92-1	Lead	ug/g	99.4	<3.00E-03	5.33	n/a	n/a	n/a	n/a	0.0296	n/a	
S10V001877	A	7782-49-2	Selenium	ug/g	104	<0.0270	0.615	n/a	n/a	n/a	n/a	0.266	n/a	B
S10V001877	A	7440-28-0	Thallium	ug/g	98.8	<4.00E-04	0.0796	n/a	n/a	n/a	n/a	7.89E-03	n/a	
S10V001878	S	14798-03-9	Ammonium	ug/g	104	0.0279	6.22	n/a	n/a	n/a	n/a	0.469	n/a	
S10V001879	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<3.00E-04	n/a	n/a	n/a	n/a	3.00E-04	n/a	U
S10V001879	A	SN-117	Tin-117	ug/g	108	<1.00E-03	0.0102	n/a	n/a	n/a	n/a	9.99E-03	n/a	N
S10V001879	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	4.89E-04	n/a	n/a	n/a	n/a	2.00E-04	n/a	BE N
S10V001880	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.10E-07	<2.13E-07	n/a	n/a	n/a	n/a	2.13E-07	n/a	U
S10V001880	E	14596-10-2	Americium-241	uCi/g	93.7	<5.25E-07	<5.32E-07	n/a	n/a	n/a	n/a	5.32E-07	n/a	U

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Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26JK8

Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001880		E	15510-73-3	Curium-242	uCi/g	n/a	<2.10E-07	<2.13E-07	n/a	n/a	n/a	n/a	2.13E-07	n/a	U
S10V001880		E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<6.08E-07	<3.07E-07	n/a	n/a	n/a	n/a	3.07E-07	n/a	U
S10V001880		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-07	<3.07E-07	n/a	n/a	n/a	n/a	3.07E-07	n/a	U
S10V001881		E	SR-89/90	Strontium-89/90	uCi/g	98.8	<1.88E-07	<1.87E-07	n/a	n/a	n/a	n/a	1.87E-07	n/a	U
S10V001882		E	13981-37-8	Nickel-63	uCi/g	105	<5.73E-06	<5.96E-06	n/a	n/a	n/a	n/a	5.96E-06	n/a	U
S10V001882		E	15758-45-9	Selenium-79	uCi/g	n/a	2.39E-06	<2.37E-06	n/a	n/a	n/a	n/a	1.76E-06	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26JL8
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001866			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0758	n/a	n/a	n/a	n/a	0.0758	n/a	U
S10V001866			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
S10V001866			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.174	n/a	n/a	n/a	n/a	0.174	n/a	U
S10V001866			75-35-4	1,1-Dichloroethene	ug/kg	104	<0.423	<0.349	n/a	n/a	n/a	106	0.349	n/a	U
S10V001866			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0443	n/a	n/a	n/a	n/a	0.0443	n/a	U
S10V001866			71-36-3	1-Butanol	ug/kg	117	<10.3	<8.48	n/a	n/a	n/a	95.8	8.48	n/a	U
S10V001866			108-10-1	Hexone	ug/kg	115	<1.71	<1.41	n/a	n/a	n/a	138	1.41	n/a	U
S10V001866			67-64-1	Acetone	ug/kg	108	<2.20	<1.81	n/a	n/a	n/a	121	1.81	n/a	U
S10V001866			71-43-2	Benzene	ug/kg	103	<0.147	<0.121	n/a	n/a	n/a	104	0.121	n/a	U
S10V001866			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.132	n/a	n/a	n/a	n/a	0.132	n/a	U
S10V001866			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0769	n/a	n/a	n/a	n/a	0.0769	n/a	U
S10V001866			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
S10V001866			108-90-7	Chlorobenzene	ug/kg	104	<0.0864	<0.0712	n/a	n/a	n/a	101	0.0712	n/a	U
S10V001866			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0883	n/a	n/a	n/a	n/a	0.0883	n/a	U
S10V001866			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S10V001866			78-93-3	2-Butanone	ug/kg	110	<1.96	<1.62	n/a	n/a	n/a	124	1.62	n/a	U
S10V001866			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0527	n/a	n/a	n/a	n/a	0.0527	n/a	U
S10V001866			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.0904	n/a	n/a	n/a	n/a	0.0904	n/a	U
S10V001866			100-42-5	Styrene	ug/kg	n/a	0.371	0.308	n/a	n/a	n/a	n/a	0.104	n/a	BJ
S10V001866			108-88-3	Toluene	ug/kg	103	0.208	0.267	n/a	n/a	n/a	102	0.0661	n/a	BJ
S10V001866			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.223	n/a	n/a	n/a	n/a	0.223	n/a	U
S10V001866			79-01-6	Trichloroethene	ug/kg	105	<0.121	<0.0997	n/a	n/a	n/a	99.8	0.0997	n/a	U
S10V001866			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.143	n/a	n/a	n/a	n/a	0.143	n/a	U
S10V001866			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
S10V001866			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S10V001866			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.0957	n/a	n/a	n/a	n/a	0.0957	n/a	U
S10V001866			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.484	n/a	n/a	n/a	n/a	0.484	n/a	U
S10V001866			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.484	n/a	n/a	n/a	n/a	0.484	n/a	U
S10V001866			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U

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Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26JL8

Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001866			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0774	n/a	n/a	n/a	n/a	0.0774	n/a	U
S10V001866			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0758	n/a	n/a	n/a	n/a	0.0758	n/a	U
S10V001866			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.138	n/a	n/a	n/a	n/a	0.138	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26JK9
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001886		%WATERA	%WATER-APD	%	n/a	n/a	3.950	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V001886		57-12-5	Cyanide	ug/g	89.7	<0.0370	<2.64	n/a	n/a	n/a	n/a	2.64	n/a	U
S10V001886		7439-97-6	Mercury	ug/g	96.3	<1.00E-04	<9.53E-03	n/a	n/a	n/a	n/a	9.53E-03	n/a	U
S10V001886		PH	pH	unitless	n/a	n/a	8.91	8.86	8.88	0.563	n/a	0.0100	n/a	
S10V001886		12597-04-5	Sulfide	ug/g	96.1	<0.180	24.5	n/a	n/a	n/a	n/a	7.14	n/a	B
S10V001888		13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.25E-05	n/a	n/a	n/a	n/a	5.78E-06	30.96	
S10V001888		10198-40-0	Cobalt-60	uCi/g	99.1	<2.73E-07	<2.77E-07	n/a	n/a	n/a	n/a	2.77E-07	n/a	U
S10V001888		14234-35-6	Antimony-125	uCi/g	n/a	<7.34E-07	<7.05E-07	n/a	n/a	n/a	n/a	7.05E-07	n/a	U
S10V001888		10045-97-3	Cesium-137	uCi/g	101	<3.64E-07	<3.37E-07	n/a	n/a	n/a	n/a	3.37E-07	n/a	U
S10V001888		14683-23-9	Europium-152	uCi/g	n/a	<1.35E-06	<1.40E-06	n/a	n/a	n/a	n/a	1.40E-06	n/a	U
S10V001888		15585-10-1	Europium-154	uCi/g	n/a	<8.57E-07	<8.94E-07	n/a	n/a	n/a	n/a	8.94E-07	n/a	U
S10V001888		14391-16-3	Europium-155	uCi/g	n/a	<4.62E-07	<4.63E-07	n/a	n/a	n/a	n/a	4.63E-07	n/a	U
S10V001888		15092-94-1	Lead-212	uCi/g	n/a	n/a	4.46E-07	n/a	n/a	n/a	n/a	3.66E-07	39.28	
S10V001888		15067-28-4	Lead-214	uCi/g	n/a	n/a	6.51E-07	n/a	n/a	n/a	n/a	5.83E-07	38.23	
S10V001888		14274-82-9	Thorium-228	uCi/g	n/a	<8.13E-06	<9.16E-06	n/a	n/a	n/a	n/a	9.16E-06	n/a	U
S10V001888		15065-10-8	Thorium-234	uCi/g	n/a	<2.85E-06	<3.02E-06	n/a	n/a	n/a	n/a	3.02E-06	n/a	U
S10V001888		15046-84-1	Iodine-129	uCi/g	111	<1.83E-07	<1.70E-07	<1.63E-07	n/a	n/a	n/a	1.70E-07	n/a	U
S10V001889	WV	14133-76-7	Technetium-99	ug/g	110	<4.00E-06	<3.94E-06	<3.93E-06	n/a	n/a	100	3.94E-06	n/a	U
S10V001890	W	14762-75-5	Carbon-14	uCi/g	91.6	<1.40E-06	<1.39E-06	n/a	n/a	n/a	n/a	1.39E-06	n/a	U
S10V001890	W	10028-17-8	Tritium	uCi/g	92.9	<3.75E-07	<7.98E-05	n/a	n/a	n/a	n/a	7.98E-05	n/a	U
S10V001891	A	7440-36-0	Antimony	ug/g	102	<2.00E-04	0.192	n/a	n/a	n/a	n/a	9.66E-03	n/a	B
S10V001892	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	54.5	<77.4	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
S10V001892	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<97.6	n/a	n/a	n/a	n/a	97.6	n/a	U
S10V001892	O	121-14-2	2,4-Dinitrotoluene	ug/kg	83.2	<38.1	<36.9	n/a	n/a	n/a	n/a	36.9	n/a	U
S10V001892	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<42.7	n/a	n/a	n/a	n/a	42.7	n/a	U
S10V001892	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.0	n/a	n/a	n/a	n/a	48.0	n/a	U
S10V001892	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<55.7	n/a	n/a	n/a	n/a	55.7	n/a	U
S10V001892	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.1	n/a	n/a	n/a	n/a	52.1	n/a	U
S10V001892	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26JK9
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001892		O	83-32-9	Acenaphthene	ug/kg	67.5	<17.6	<17.1	n/a	n/a	n/a	n/a	17.1	n/a	U
S10V001892		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S10V001892		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U
S10V001892		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.9	n/a	n/a	n/a	n/a	39.9	n/a	U
S10V001892		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<572	n/a	n/a	n/a	n/a	572	n/a	U
S10V001892		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S10V001892		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<48.5	n/a	n/a	n/a	n/a	48.5	n/a	U
S10V001892		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.4	<43.2	<41.9	n/a	n/a	n/a	n/a	41.9	n/a	U
S10V001892		O	95-57-8	2-Chlorophenol	ug/kg	59.1	<66.5	<64.5	n/a	n/a	n/a	n/a	64.5	n/a	U
S10V001892		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<78.9	n/a	n/a	n/a	n/a	78.9	n/a	U
S10V001892		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S10V001892		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	570	n/a	n/a	n/a	n/a	545	n/a	J
S10V001892		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.2	n/a	n/a	n/a	n/a	46.2	n/a	U
S10V001892		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	59.3	<58.1	<56.3	n/a	n/a	n/a	n/a	56.3	n/a	U
S10V001892		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.3	n/a	n/a	n/a	n/a	34.3	n/a	U
S10V001892		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<67.6	n/a	n/a	n/a	n/a	67.6	n/a	U
S10V001892		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V001892		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V001892		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<60.7	n/a	n/a	n/a	n/a	60.7	n/a	U
S10V001892		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S10V001892		O	129-00-0	Pyrene	ug/kg	74.8	<62.9	<61.0	n/a	n/a	n/a	n/a	61.0	n/a	U
S10V001892		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<63.0	n/a	n/a	n/a	n/a	63.0	n/a	U
S10V001892		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S10V001892		O	128-37-0	BHT	ug/kg	n/a	<236	<228	n/a	n/a	n/a	n/a	228	n/a	U
S10V001892		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<177	n/a	n/a	n/a	n/a	177	n/a	U
S10V001892		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U
S10V001892		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<541	n/a	n/a	n/a	n/a	541	n/a	U
S10V001892		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<185	n/a	n/a	n/a	n/a	185	n/a	U
S10V001892		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<446	n/a	n/a	n/a	n/a	446	n/a	U

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N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26JK9
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001893	W	16984-48-8	Fluoride	ug/g	101	<1.61E-03	0.762	n/a	n/a	n/a	n/a	0.0160	n/a	
S10V001893	W	GLYCOLAT	Glycolate	ug/g	99.6	<9.37E-03	<0.0929	n/a	n/a	n/a	n/a	0.0929	n/a	U
S10V001893	W	71-50-1	Acetate	ug/g	97.2	<6.04E-03	<0.0599	n/a	n/a	n/a	n/a	0.0599	n/a	U
S10V001893	W	FORMATE	Formate	ug/g	101	<4.67E-03	0.170	n/a	n/a	n/a	n/a	0.0463	n/a	B
S10V001893	W	16887-00-6	Chloride	ug/g	99.4	0.0107	5.57	n/a	n/a	n/a	n/a	0.0989	n/a	
S10V001893	W	14797-65-0	Nitrite	ug/g	100	<0.0192	0.204	n/a	n/a	n/a	n/a	0.190	n/a	B
S10V001893	W	14808-79-8	Sulfate	ug/g	101	<0.0187	2.66	n/a	n/a	n/a	n/a	0.185	n/a	B
S10V001893	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.229	n/a	n/a	n/a	n/a	0.229	n/a	U
S10V001893	W	24959-67-9	Bromide	ug/g	98.4	<0.0580	<0.575	n/a	n/a	n/a	n/a	0.575	n/a	U
S10V001893	W	14797-55-8	Nitrate	ug/g	99.2	<0.0208	11.5	n/a	n/a	n/a	n/a	0.206	n/a	
S10V001893	W	14265-44-2	Phosphate	ug/g	99.0	<0.0167	1.11	n/a	n/a	n/a	n/a	0.166	n/a	B
S10V001894	A	7429-90-5	Aluminum	ug/g	98.0	<0.0300	5.68E+03	7.37E+03	6.52E+03	25.9	4.41E+03	2.96	n/a	
S10V001894	A	7440-39-3	Barium	ug/g	88.6	<3.00E-03	59.4	78.4	68.9	27.5	136	0.296	n/a	N
S10V001894	A	7440-41-7	Beryllium	ug/g	89.5	<1.00E-03	0.152	0.188	0.170	20.9	105	0.0986	n/a	B
S10V001894	A	7440-70-2	Calcium	ug/g	89.6	0.101	7.47E+03	9.67E+03	8.57E+03	25.6	4.56E+03	4.93	n/a	
S10V001894	A	7440-45-1	Cerium	ug/g	92.7	<0.0300	20.6	26.7	23.7	25.6	117	2.96	n/a	BN
S10V001894	A	7440-48-4	Cobalt	ug/g	80.7	<0.0100	6.45	9.01	7.73	33.2	111	0.986	n/a	B
S10V001894	A	7440-47-3	Chromium	ug/g	80.7	<5.00E-03	8.27	11.5	9.87	32.3	109	0.493	n/a	M
S10V001894	A	7440-50-8	Copper	ug/g	90.0	<5.00E-03	9.25	12.5	10.9	29.7	110	0.493	n/a	
S10V001894	A	7439-89-6	Iron	ug/g	83.3	0.0115	1.96E+04	2.35E+04	2.16E+04	17.9	5.09E+03	0.493	n/a	
S10V001894	A	7440-09-7	Potassium	ug/g	94.0	<0.500	8.21E+02	1.04E+03	9.33E+02	24.0	500	49.3	n/a	
S10V001894	A	7439-91-0	Lanthanum	ug/g	90.2	<3.00E-03	8.83	10.8	9.82	20.1	108	0.296	n/a	
S10V001894	A	7439-93-2	Lithium	ug/g	88.9	<3.00E-03	6.26	7.71	6.99	20.7	100	0.296	n/a	
S10V001894	A	7439-95-4	Magnesium	ug/g	96.8	<0.0500	4.14E+03	5.36E+03	4.75E+03	25.8	2.05E+03	4.93	n/a	
S10V001894	A	7439-96-5	Manganese	ug/g	80.2	<3.00E-03	286	357	321	22.3	214	0.296	n/a	
S10V001894	A	7439-98-7	Molybdenum	ug/g	82.2	<0.0200	<1.97	<1.97	n/a	n/a	104	1.97	n/a	U
S10V001894	A	7440-23-5	Sodium	ug/g	87.1	<0.100	132	222	177	50.8	431	9.86	n/a	NM
S10V001894	A	7440-02-0	Nickel	ug/g	98.9	<0.0200	7.59	17.9	12.7	80.7	112	1.97	n/a	B
S10V001894	A	7723-14-0	Phosphorus	ug/g	81.1	<0.0500	647	839	743	25.8	416	4.93	n/a	

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26JK9
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001894	A	7704-34-9	Sulfur	ug/g	81.2	<0.100	57.4	73.9	65.6	25.1	117	9.86	n/a	B
S10V001894	A	7440-21-3	Silicon	ug/g	94.7	<0.0300	44.1	73.7	58.9	50.3	158	2.96	n/a	NM
S10V001894	A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	23.3	32.0	27.6	31.2	134	0.296	n/a	NM
S10V001894	A	7440-32-6	Titanium	ug/g	82.5	<5.00E-03	1.30E+03	1.55E+03	1.42E+03	17.6	735	0.493	n/a	
S10V001894	A	7440-62-2	Vanadium	ug/g	84.5	<5.00E-03	47.4	54.0	50.7	13.1	120	0.493	n/a	
S10V001894	A	7440-65-5	Yttrium	ug/g	82.8	<2.00E-03	7.42	9.49	8.45	24.6	101	0.197	n/a	
S10V001894	A	7440-66-6	Zinc	ug/g	81.5	<5.00E-03	37.1	45.9	41.5	21.3	119	0.493	n/a	
S10V001894	A	7440-67-7	Zirconium	ug/g	99.0	<5.00E-03	11.5	13.4	12.5	14.8	39.0	0.493	n/a	N
S10V001894	A	14269-63-7	Thorium-230	ug/g	n/a	4.16E-06	8.96E-05	7.96E-05	8.46E-05	11.9	n/a	2.80E-05	n/a	B
S10V001894	A	TH-232	Thorium-232	ug/g	107	<2.00E-04	3.06	3.28	3.17	7.04	114	2.00E-03	n/a	
S10V001894	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.10E-04	1.11E-04	1.10E-04	1.01	n/a	3.94E-05	n/a	
S10V001894	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	4.08E-05	<1.97E-05	n/a	n/a	n/a	1.97E-05	n/a	
S10V001894	A	15117-96-1	Uranium-235	ug/g	97.2	<4.00E-06	2.39E-03	3.20E-03	2.80E-03	29.2	96.4	3.94E-05	n/a	
S10V001894	A	13982-70-2	Uranium-236	ug/g	n/a	1.62E-06	<1.58E-05	<1.57E-05	n/a	n/a	n/a	1.58E-05	n/a	U
S10V001894	A	13994-20-2	Neptunium-237	ug/g	100	<4.00E-05	<3.94E-04	<3.93E-04	n/a	n/a	99.5	3.94E-04	n/a	U
S10V001894	A	U-238	Uranium-238	ug/g	106	<2.00E-04	0.370	0.477	0.423	25.1	105	1.97E-03	n/a	
S10V001894	A	7440-22-4	Silver	ug/g	119	<4.00E-04	0.0537	0.0667	0.0602	21.5	116	3.94E-03	n/a	
S10V001894	A	7440-38-2	Arsenic	ug/g	106	<8.40E-03	3.92	5.23	4.58	28.5	107	0.0828	n/a	
S10V001894	A	7440-43-9	Cadmium	ug/g	107	<1.80E-03	0.0641	0.0876	0.0759	31.1	106	0.0118	n/a	B
S10V001894	A	7439-92-1	Lead	ug/g	99.4	<3.00E-03	4.26	5.47	4.86	25.0	101	0.0296	n/a	
S10V001894	A	7782-49-2	Selenium	ug/g	104	<0.0270	0.526	0.591	0.558	11.7	116	0.266	n/a	B
S10V001894	A	7440-28-0	Thallium	ug/g	98.8	<4.00E-04	0.0637	0.0782	0.0709	20.6	99.0	7.89E-03	n/a	B
S10V001895	S	14798-03-9	Ammonium	ug/g	104	0.0279	5.94	n/a	n/a	n/a	n/a	0.467	n/a	
S10V001896	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<3.00E-04	n/a	n/a	n/a	n/a	3.00E-04	n/a	U
S10V001896	A	SN-117	Tin-117	ug/g	108	<1.00E-03	0.0115	n/a	n/a	n/a	n/a	9.99E-03	n/a	N
S10V001896	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	5.87E-04	n/a	n/a	n/a	n/a	2.00E-04	n/a	BE N
S10V001897	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.10E-07	<1.80E-07	n/a	n/a	n/a	n/a	1.80E-07	n/a	U
S10V001897	E	14596-10-2	Americium-241	uCi/g	93.7	<5.25E-07	<4.51E-07	n/a	n/a	n/a	n/a	4.51E-07	n/a	U
S10V001897	E	15510-73-3	Curium-242	uCi/g	n/a	<2.10E-07	<1.80E-07	n/a	n/a	n/a	n/a	1.80E-07	n/a	U

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Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26JK9

Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001897	E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<6.08E-07	<3.13E-07	n/a	n/a	n/a	n/a	3.13E-07	n/a	U
S10V001897	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-07	<3.13E-07	n/a	n/a	n/a	n/a	3.13E-07	n/a	U
S10V001898	E	SR-89/90	Strontium-89/90	uCi/g	98.8	<1.88E-07	<2.12E-07	n/a	n/a	n/a	n/a	2.12E-07	n/a	U
S10V001899	E	13981-37-8	Nickel-63	uCi/g	105	<5.73E-06	<5.74E-06	n/a	n/a	n/a	n/a	5.74E-06	n/a	U
S10V001899	E	15758-45-9	Selenium-79	uCi/g	n/a	2.39E-06	<1.95E-06	n/a	n/a	n/a	n/a	1.95E-06	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26JL9
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001883			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0760	n/a	n/a	n/a	n/a	0.0760	n/a	U
S10V001883			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
S10V001883			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
S10V001883			75-35-4	1,1-Dichloroethene	ug/kg	104	<0.423	<0.350	n/a	n/a	n/a	n/a	0.350	n/a	U
S10V001883			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
S10V001883			71-36-3	1-Butanol	ug/kg	117	<10.3	<8.51	n/a	n/a	n/a	n/a	8.51	n/a	U
S10V001883			108-10-1	Hexone	ug/kg	115	<1.71	<1.41	n/a	n/a	n/a	n/a	1.41	n/a	U
S10V001883			67-64-1	Acetone	ug/kg	108	<2.20	<1.82	n/a	n/a	n/a	n/a	1.82	n/a	U
S10V001883			71-43-2	Benzene	ug/kg	103	<0.147	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S10V001883			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
S10V001883			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0772	n/a	n/a	n/a	n/a	0.0772	n/a	U
S10V001883			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
S10V001883			108-90-7	Chlorobenzene	ug/kg	104	<0.0864	<0.0714	n/a	n/a	n/a	n/a	0.0714	n/a	U
S10V001883			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0886	n/a	n/a	n/a	n/a	0.0886	n/a	U
S10V001883			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
S10V001883			78-93-3	2-Butanone	ug/kg	110	<1.96	<1.62	n/a	n/a	n/a	n/a	1.62	n/a	U
S10V001883			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0529	n/a	n/a	n/a	n/a	0.0529	n/a	U
S10V001883			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.0907	n/a	n/a	n/a	n/a	0.0907	n/a	U
S10V001883			108-88-3	Toluene	ug/kg	103	0.208	0.258	n/a	n/a	n/a	n/a	0.0663	n/a	BJ
S10V001883			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
S10V001883			79-01-6	Trichloroethene	ug/kg	105	<0.121	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S10V001883			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.143	n/a	n/a	n/a	n/a	0.143	n/a	U
S10V001883			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
S10V001883			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S10V001883			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.0960	n/a	n/a	n/a	n/a	0.0960	n/a	U
S10V001883			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.486	n/a	n/a	n/a	n/a	0.486	n/a	U
S10V001883			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.485	n/a	n/a	n/a	n/a	0.485	n/a	U
S10V001883			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
S10V001883			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0777	n/a	n/a	n/a	n/a	0.0777	n/a	U

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Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26JL9

Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001883			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0760	n/a	n/a	n/a	n/a	0.0760	n/a	U
S10V001883			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.138	n/a	n/a	n/a	n/a	0.138	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C26
Sample Depth: 5-7

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001906		%WATERA	%WATER-APD	%	n/a	n/a	6.300	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V001906		57-12-5	Cyanide	ug/g	99.7	<0.0370	<2.64	<2.62	n/a	n/a	94.3	2.64	n/a	U
S10V001906		7439-97-6	Mercury	ug/g	96.3	<1.00E-04	<9.51E-03	n/a	n/a	n/a	n/a	9.51E-03	n/a	U
S10V001906		PH	pH	unitless	n/a	n/a	8.62	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V001906		12597-04-5	Sulfide	ug/g	82.8	<0.180	14.1	14.7	14.4	4.66	87.7	7.01	n/a	B
S10V001908		10198-40-0	Cobalt-60	uCi/g	99.1	<2.73E-07	<4.39E-07	n/a	n/a	n/a	n/a	4.39E-07	n/a	U
S10V001908		14234-35-6	Antimony-125	uCi/g	n/a	<7.34E-07	<1.17E-06	n/a	n/a	n/a	n/a	1.17E-06	n/a	U
S10V001908		10045-97-3	Cesium-137	uCi/g	101	<3.64E-07	<5.80E-07	n/a	n/a	n/a	n/a	5.80E-07	n/a	U
S10V001908		14683-23-9	Europium-152	uCi/g	n/a	<1.35E-06	<1.96E-06	n/a	n/a	n/a	n/a	1.96E-06	n/a	U
S10V001908		15585-10-1	Europium-154	uCi/g	n/a	<8.57E-07	<1.46E-06	n/a	n/a	n/a	n/a	1.46E-06	n/a	U
S10V001908		14391-16-3	Europium-155	uCi/g	n/a	<4.62E-07	<7.24E-07	n/a	n/a	n/a	n/a	7.24E-07	n/a	U
S10V001908		14274-82-9	Thorium-228	uCi/g	n/a	<8.13E-06	<1.41E-05	n/a	n/a	n/a	n/a	1.41E-05	n/a	U
S10V001908		15065-10-8	Thorium-234	uCi/g	n/a	<2.85E-06	<4.68E-06	n/a	n/a	n/a	n/a	4.68E-06	n/a	U
S10V001908		15046-84-1	Iodine-129	uCi/g	111	<1.83E-07	<1.52E-07	n/a	n/a	n/a	n/a	1.52E-07	n/a	U
S10V001909	WV	14133-76-7	Technetium-99	ug/g	110	<4.00E-06	<4.12E-06	n/a	n/a	n/a	n/a	4.12E-06	n/a	U
S10V001910	W	14762-75-5	Carbon-14	uCi/g	91.6	<1.40E-06	<1.41E-06	n/a	n/a	n/a	n/a	1.41E-06	n/a	U
S10V001910	W	10028-17-8	Tritium	uCi/g	92.9	<3.75E-07	<6.23E-05	n/a	n/a	n/a	n/a	6.23E-05	n/a	U
S10V001911	A	7440-36-0	Antimony	ug/g	102	<2.00E-04	0.202	n/a	n/a	n/a	n/a	9.62E-03	n/a	B
S10V001912	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	60.1	<77.4	<77.4	n/a	n/a	n/a	n/a	77.4	n/a	U
S10V001912	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V001912	O	121-14-2	2,4-Dinitrotoluene	ug/kg	77.8	<38.1	<38.1	n/a	n/a	n/a	n/a	38.1	n/a	U
S10V001912	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U
S10V001912	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S10V001912	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.5	n/a	n/a	n/a	n/a	57.5	n/a	U
S10V001912	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.7	n/a	n/a	n/a	n/a	53.7	n/a	U
S10V001912	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.4	n/a	n/a	n/a	n/a	51.4	n/a	U
S10V001912	O	83-32-9	Acenaphthene	ug/kg	68.0	<17.6	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S10V001912	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S10V001912	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U

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N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C26
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001912		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.2	n/a	n/a	n/a	n/a	41.2	n/a	U
S10V001912		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<590	n/a	n/a	n/a	n/a	590	n/a	U
S10V001912		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.1	n/a	n/a	n/a	n/a	39.1	n/a	U
S10V001912		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S10V001912		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.7	<43.2	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S10V001912		O	95-57-8	2-Chlorophenol	ug/kg	68.0	<66.5	<66.5	n/a	n/a	n/a	n/a	66.5	n/a	U
S10V001912		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.4	n/a	n/a	n/a	n/a	81.4	n/a	U
S10V001912		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S10V001912		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<562	n/a	n/a	n/a	n/a	562	n/a	U
S10V001912		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S10V001912		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	63.8	<58.1	<58.1	n/a	n/a	n/a	n/a	58.1	n/a	U
S10V001912		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S10V001912		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.7	n/a	n/a	n/a	n/a	69.7	n/a	U
S10V001912		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<112	n/a	n/a	n/a	n/a	112	n/a	U
S10V001912		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S10V001912		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S10V001912		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.6	n/a	n/a	n/a	n/a	64.6	n/a	U
S10V001912		O	129-00-0	Pyrene	ug/kg	86.3	<62.9	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	U
S10V001912		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<65.0	n/a	n/a	n/a	n/a	65.0	n/a	U
S10V001912		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V001912		O	128-37-0	BHT	ug/kg	n/a	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S10V001912		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V001912		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V001912		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<558	n/a	n/a	n/a	n/a	558	n/a	U
S10V001912		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V001912		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<460	n/a	n/a	n/a	n/a	460	n/a	U
S10V001913		W	16984-48-8	Fluoride	ug/g	101	<1.61E-03	1.07	n/a	n/a	n/a	n/a	0.0161	n/a	
S10V001913		W	GLYCOLAT	Glycolate	ug/g	99.6	<9.37E-03	<0.0937	n/a	n/a	n/a	n/a	0.0937	n/a	U
S10V001913		W	71-50-1	Acetate	ug/g	97.2	<6.04E-03	<0.0604	n/a	n/a	n/a	n/a	0.0604	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C26
Sample Depth: 5-7

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001913	W	FORMATE	Formate	ug/g	101	<4.67E-03	0.300	n/a	n/a	n/a	n/a	0.0467	n/a	B
S10V001913	W	16887-00-6	Chloride	ug/g	99.4	0.0107	0.706	n/a	n/a	n/a	n/a	0.0998	n/a	
S10V001913	W	14797-65-0	Nitrite	ug/g	100	<0.0192	0.736	n/a	n/a	n/a	n/a	0.192	n/a	B
S10V001913	W	14808-79-8	Sulfate	ug/g	101	<0.0187	6.37	n/a	n/a	n/a	n/a	0.187	n/a	
S10V001913	W	338-70-5	Oxalate	ug/g	101	<0.0231	0.303	n/a	n/a	n/a	n/a	0.231	n/a	B
S10V001913	W	24959-67-9	Bromide	ug/g	98.4	<0.0580	<0.580	n/a	n/a	n/a	n/a	0.580	n/a	U
S10V001913	W	14797-55-8	Nitrate	ug/g	99.2	<0.0208	11.2	n/a	n/a	n/a	n/a	0.208	n/a	
S10V001913	W	14265-44-2	Phosphate	ug/g	99.0	<0.0167	2.78	n/a	n/a	n/a	n/a	0.167	n/a	
S10V001914	A	7429-90-5	Aluminum	ug/g	98.0	<0.0300	7.73E+03	n/a	n/a	n/a	n/a	3.00	n/a	
S10V001914	A	7440-39-3	Barium	ug/g	88.6	<3.00E-03	80.6	n/a	n/a	n/a	n/a	0.300	n/a	N
S10V001914	A	7440-41-7	Beryllium	ug/g	89.5	<1.00E-03	0.199	n/a	n/a	n/a	n/a	0.0999	n/a	B
S10V001914	A	7440-70-2	Calcium	ug/g	89.6	0.101	3.66E+03	n/a	n/a	n/a	n/a	5.00	n/a	
S10V001914	A	7440-45-1	Cerium	ug/g	92.7	<0.0300	23.8	n/a	n/a	n/a	n/a	3.00	n/a	BN
S10V001914	A	7440-48-4	Cobalt	ug/g	80.7	<0.0100	7.99	n/a	n/a	n/a	n/a	0.999	n/a	B
S10V001914	A	7440-47-3	Chromium	ug/g	80.7	<5.00E-03	10.1	n/a	n/a	n/a	n/a	0.500	n/a	M
S10V001914	A	7440-50-8	Copper	ug/g	90.0	<5.00E-03	9.97	n/a	n/a	n/a	n/a	0.500	n/a	
S10V001914	A	7439-89-6	Iron	ug/g	83.3	0.0115	2.22E+04	n/a	n/a	n/a	n/a	0.500	n/a	
S10V001914	A	7440-09-7	Potassium	ug/g	94.0	<0.500	1.35E+03	n/a	n/a	n/a	n/a	50.0	n/a	
S10V001914	A	7439-91-0	Lanthanum	ug/g	90.2	<3.00E-03	10.8	n/a	n/a	n/a	n/a	0.300	n/a	
S10V001914	A	7439-93-2	Lithium	ug/g	88.9	<3.00E-03	7.23	n/a	n/a	n/a	n/a	0.300	n/a	
S10V001914	A	7439-95-4	Magnesium	ug/g	96.8	<0.0500	4.45E+03	n/a	n/a	n/a	n/a	5.00	n/a	
S10V001914	A	7439-96-5	Manganese	ug/g	80.2	<3.00E-03	346	n/a	n/a	n/a	n/a	0.300	n/a	
S10V001914	A	7439-98-7	Molybdenum	ug/g	82.2	<0.0200	<2.00	n/a	n/a	n/a	n/a	2.00	n/a	U
S10V001914	A	7440-23-5	Sodium	ug/g	87.1	<0.100	205	n/a	n/a	n/a	n/a	9.99	n/a	NM
S10V001914	A	7440-02-0	Nickel	ug/g	98.9	<0.0200	8.65	n/a	n/a	n/a	n/a	2.00	n/a	B
S10V001914	A	7723-14-0	Phosphorus	ug/g	81.1	<0.0500	794	n/a	n/a	n/a	n/a	5.00	n/a	
S10V001914	A	7704-34-9	Sulfur	ug/g	81.2	<0.100	45.8	n/a	n/a	n/a	n/a	9.99	n/a	B
S10V001914	A	7440-21-3	Silicon	ug/g	94.7	<0.0300	59.4	n/a	n/a	n/a	n/a	3.00	n/a	NM
S10V001914	A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	23.7	n/a	n/a	n/a	n/a	0.300	n/a	NM

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C26
Sample Depth: 5-7

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001914	A	7440-32-6	Titanium	ug/g	82.5	<5.00E-03	1.43E+03	n/a	n/a	n/a	n/a	0.500	n/a	
S10V001914	A	7440-62-2	Vanadium	ug/g	84.5	<5.00E-03	52.3	n/a	n/a	n/a	n/a	0.500	n/a	
S10V001914	A	7440-65-5	Yttrium	ug/g	82.8	<2.00E-03	8.57	n/a	n/a	n/a	n/a	0.200	n/a	
S10V001914	A	7440-66-6	Zinc	ug/g	81.5	<5.00E-03	42.4	n/a	n/a	n/a	n/a	0.500	n/a	
S10V001914	A	7440-67-7	Zirconium	ug/g	99.0	<5.00E-03	14.3	n/a	n/a	n/a	n/a	0.500	n/a	N
S10V001914	A	14269-63-7	Thorium-230	ug/g	n/a	4.16E-06	<2.79E-05	n/a	n/a	n/a	n/a	2.79E-05	n/a	U
S10V001914	A	TH-232	Thorium-232	ug/g	107	<2.00E-04	3.94	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V001914	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.43E-04	n/a	n/a	n/a	n/a	4.00E-05	n/a	
S10V001914	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	4.21E-05	n/a	n/a	n/a	n/a	2.00E-05	n/a	
S10V001914	A	15117-96-1	Uranium-235	ug/g	97.2	<4.00E-06	3.56E-03	n/a	n/a	n/a	n/a	4.00E-05	n/a	
S10V001914	A	13982-70-2	Uranium-236	ug/g	n/a	1.62E-06	<1.60E-05	n/a	n/a	n/a	n/a	1.60E-05	n/a	U
S10V001914	A	13994-20-2	Neptunium-237	ug/g	100	<4.00E-05	<4.00E-04	n/a	n/a	n/a	n/a	4.00E-04	n/a	U
S10V001914	A	U-238	Uranium-238	ug/g	106	<2.00E-04	0.528	n/a	n/a	n/a	n/a	2.00E-03	n/a	
S10V001914	A	7440-22-4	Silver	ug/g	119	<4.00E-04	0.0624	n/a	n/a	n/a	n/a	4.00E-03	n/a	
S10V001914	A	7440-38-2	Arsenic	ug/g	106	<8.40E-03	3.67	n/a	n/a	n/a	n/a	0.0839	n/a	
S10V001914	A	7440-43-9	Cadmium	ug/g	107	<1.80E-03	0.0877	n/a	n/a	n/a	n/a	0.0120	n/a	B
S10V001914	A	7439-92-1	Lead	ug/g	99.4	<3.00E-03	5.15	n/a	n/a	n/a	n/a	0.0300	n/a	
S10V001914	A	7782-49-2	Selenium	ug/g	104	<0.0270	0.523	n/a	n/a	n/a	n/a	0.270	n/a	B
S10V001914	A	7440-28-0	Thallium	ug/g	98.8	<4.00E-04	0.0834	n/a	n/a	n/a	n/a	7.99E-03	n/a	
S10V001916	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.97E-04	<2.98E-04	n/a	n/a	113	2.97E-04	n/a	U
S10V001916	A	SN-117	Tin-117	ug/g	108	<1.00E-03	<9.89E-03	<9.93E-03	n/a	n/a	52.9	9.89E-03	n/a	UN
S10V001916	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	5.49E-04	5.27E-04	5.38E-04	4.13	n/a	1.98E-04	n/a	BE N
S10V001917	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.10E-07	<2.02E-07	n/a	n/a	n/a	n/a	2.02E-07	n/a	U
S10V001917	E	14596-10-2	Americium-241	uCi/g	93.7	<5.25E-07	<5.04E-07	n/a	n/a	n/a	n/a	5.04E-07	n/a	U
S10V001917	E	15510-73-3	Curium-242	uCi/g	n/a	<2.10E-07	<2.02E-07	n/a	n/a	n/a	n/a	2.02E-07	n/a	U
S10V001917	E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<6.08E-07	<2.87E-07	n/a	n/a	n/a	n/a	2.87E-07	n/a	U
S10V001917	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-07	<2.87E-07	n/a	n/a	n/a	n/a	2.87E-07	n/a	U
S10V001918	E	SR-89/90	Strontium-89/90	uCi/g	98.8	<1.88E-07	<5.67E-07	n/a	n/a	n/a	n/a	5.67E-07	n/a	U
S10V001919	E	13981-37-8	Nickel-63	uCi/g	105	<5.73E-06	<4.70E-06	n/a	n/a	n/a	n/a	4.70E-06	n/a	U

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M - RPD Outside Range
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C - Blank Contamination
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J - Estimated
B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C26

Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001919		E	15758-45-9	Selenium-79	uCi/g	n/a	2.39E-06	2.23E-06	n/a	n/a	n/a	n/a	1.81E-06	230.363	B

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C - Blank Contamination

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C27
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001900			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0875	n/a	n/a	n/a	n/a	0.0875	n/a	U
S10V001900			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.158	n/a	n/a	n/a	n/a	0.158	n/a	U
S10V001900			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.201	n/a	n/a	n/a	n/a	0.201	n/a	U
S10V001900			75-35-4	1,1-Dichloroethene	ug/kg	95.3	<0.423	<0.402	n/a	n/a	n/a	91.5	0.402	n/a	U
S10V001900			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0511	n/a	n/a	n/a	n/a	0.0511	n/a	U
S10V001900			71-36-3	1-Butanol	ug/kg	118	<10.3	<9.78	n/a	n/a	n/a	110	9.78	n/a	U
S10V001900			108-10-1	Hexone	ug/kg	126	<1.71	<1.62	n/a	n/a	n/a	114	1.62	n/a	U
S10V001900			67-64-1	Acetone	ug/kg	109	<2.20	<2.09	n/a	n/a	n/a	103	2.09	n/a	U
S10V001900			71-43-2	Benzene	ug/kg	103	<0.147	<0.140	n/a	n/a	n/a	96.1	0.140	n/a	U
S10V001900			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S10V001900			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0888	n/a	n/a	n/a	n/a	0.0888	n/a	U
S10V001900			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.124	n/a	n/a	n/a	n/a	0.124	n/a	U
S10V001900			108-90-7	Chlorobenzene	ug/kg	106	<0.0864	<0.0821	n/a	n/a	n/a	98.7	0.0821	n/a	U
S10V001900			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.102	n/a	n/a	n/a	n/a	0.102	n/a	U
S10V001900			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.193	n/a	n/a	n/a	n/a	0.193	n/a	U
S10V001900			78-93-3	2-Butanone	ug/kg	116	<1.96	<1.87	n/a	n/a	n/a	108	1.87	n/a	U
S10V001900			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0608	n/a	n/a	n/a	n/a	0.0608	n/a	U
S10V001900			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V001900			100-42-5	Styrene	ug/kg	n/a	0.371	0.333	n/a	n/a	n/a	n/a	0.120	n/a	BJ
S10V001900			108-88-3	Toluene	ug/kg	103	0.221	0.387	n/a	n/a	n/a	95.9	0.0762	n/a	BJ
S10V001900			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.258	n/a	n/a	n/a	n/a	0.258	n/a	U
S10V001900			79-01-6	Trichloroethene	ug/kg	102	<0.121	<0.115	n/a	n/a	n/a	98.0	0.115	n/a	U
S10V001900			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U
S10V001900			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.173	n/a	n/a	n/a	n/a	0.173	n/a	U
S10V001900			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.288	n/a	n/a	n/a	n/a	0.288	n/a	U
S10V001900			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.110	n/a	n/a	n/a	n/a	0.110	n/a	U
S10V001900			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.559	n/a	n/a	n/a	n/a	0.559	n/a	U
S10V001900			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.558	n/a	n/a	n/a	n/a	0.558	n/a	U
S10V001900			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.244	n/a	n/a	n/a	n/a	0.244	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C27
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001900			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0894	n/a	n/a	n/a	n/a	0.0894	n/a	U
S10V001900			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0875	n/a	n/a	n/a	n/a	0.0875	n/a	U
S10V001900			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C28
Sample Depth: 10-12

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001926		%WATERA	%WATER-APD	%	n/a	n/a	3.070	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V001926		57-12-5	Cyanide	ug/g	99.7	<0.0370	<2.60	n/a	n/a	n/a	n/a	2.60	n/a	U
S10V001926		7439-97-6	Mercury	ug/g	96.3	<1.00E-04	<9.08E-03	n/a	n/a	n/a	n/a	9.08E-03	n/a	U
S10V001926		PH	pH	unitless	n/a	n/a	9.76	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V001926		12597-04-5	Sulfide	ug/g	82.8	<0.180	25.2	n/a	n/a	n/a	n/a	7.04	n/a	B
S10V001928		13966-00-2	Potassium-40	uCi/g	n/a	n/a	8.09E-06	n/a	n/a	n/a	n/a	6.08E-06	48.12	
S10V001928		10198-40-0	Cobalt-60	uCi/g	99.1	<2.73E-07	<2.99E-07	n/a	n/a	n/a	n/a	2.99E-07	n/a	U
S10V001928		14234-35-6	Antimony-125	uCi/g	n/a	<7.34E-07	<7.95E-07	n/a	n/a	n/a	n/a	7.95E-07	n/a	U
S10V001928		10045-97-3	Cesium-137	uCi/g	101	<3.64E-07	<3.77E-07	n/a	n/a	n/a	n/a	3.77E-07	n/a	U
S10V001928		14683-23-9	Europium-152	uCi/g	n/a	<1.35E-06	<1.46E-06	n/a	n/a	n/a	n/a	1.46E-06	n/a	U
S10V001928		15585-10-1	Europium-154	uCi/g	n/a	<8.57E-07	<1.04E-06	n/a	n/a	n/a	n/a	1.04E-06	n/a	U
S10V001928		14391-16-3	Europium-155	uCi/g	n/a	<4.62E-07	<4.99E-07	n/a	n/a	n/a	n/a	4.99E-07	n/a	U
S10V001928		14733-03-0	Bismuth-214	uCi/g	n/a	n/a	7.13E-07	n/a	n/a	n/a	n/a	5.94E-07	47.83	
S10V001928		15067-28-4	Lead-214	uCi/g	n/a	n/a	8.26E-07	n/a	n/a	n/a	n/a	7.00E-07	29.54	
S10V001928		14274-82-9	Thorium-228	uCi/g	n/a	<8.13E-06	<9.34E-06	n/a	n/a	n/a	n/a	9.34E-06	n/a	U
S10V001928		15065-10-8	Thorium-234	uCi/g	n/a	<2.85E-06	<3.12E-06	n/a	n/a	n/a	n/a	3.12E-06	n/a	U
S10V001928		15046-84-1	Iodine-129	uCi/g	111	<1.83E-07	<1.47E-07	n/a	n/a	n/a	n/a	1.47E-07	n/a	U
S10V001929	WV	14133-76-7	Technetium-99	ug/g	110	<4.00E-06	<3.86E-06	n/a	n/a	n/a	n/a	3.86E-06	n/a	U
S10V001930	W	14762-75-5	Carbon-14	uCi/g	91.6	<1.40E-06	<1.39E-06	n/a	n/a	n/a	n/a	1.39E-06	n/a	U
S10V001930	W	10028-17-8	Tritium	uCi/g	92.9	<3.75E-07	<6.37E-05	n/a	n/a	n/a	n/a	6.37E-05	n/a	U
S10V001931	A	7440-36-0	Antimony	ug/g	102	<2.00E-04	0.0779	n/a	n/a	n/a	n/a	9.97E-03	n/a	B
S10V001932	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	60.1	<77.4	<77.3	n/a	n/a	n/a	n/a	77.3	n/a	U
S10V001932	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V001932	O	121-14-2	2,4-Dinitrotoluene	ug/kg	77.8	<38.1	<38.0	n/a	n/a	n/a	n/a	38.0	n/a	U
S10V001932	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S10V001932	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V001932	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S10V001932	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.6	n/a	n/a	n/a	n/a	53.6	n/a	U
S10V001932	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C28
Sample Depth: 10-12

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001932	O	83-32-9	Acenaphthene	ug/kg	68.0	<17.6	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S10V001932	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V001932	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U
S10V001932	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.1	n/a	n/a	n/a	n/a	41.1	n/a	U
S10V001932	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<589	n/a	n/a	n/a	n/a	589	n/a	U
S10V001932	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.0	n/a	n/a	n/a	n/a	39.0	n/a	U
S10V001932	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.9	n/a	n/a	n/a	n/a	49.9	n/a	U
S10V001932	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.7	<43.2	<43.1	n/a	n/a	n/a	n/a	43.1	n/a	U
S10V001932	O	95-57-8	2-Chlorophenol	ug/kg	68.0	<66.5	<66.4	n/a	n/a	n/a	n/a	66.4	n/a	U
S10V001932	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.3	n/a	n/a	n/a	n/a	81.3	n/a	U
S10V001932	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S10V001932	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<562	n/a	n/a	n/a	n/a	562	n/a	U
S10V001932	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S10V001932	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	63.8	<58.1	<58.0	n/a	n/a	n/a	n/a	58.0	n/a	U
S10V001932	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S10V001932	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.6	n/a	n/a	n/a	n/a	69.6	n/a	U
S10V001932	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<112	n/a	n/a	n/a	n/a	112	n/a	U
S10V001932	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S10V001932	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S10V001932	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.5	n/a	n/a	n/a	n/a	64.5	n/a	U
S10V001932	O	129-00-0	Pyrene	ug/kg	86.3	<62.9	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S10V001932	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.9	n/a	n/a	n/a	n/a	64.9	n/a	U
S10V001932	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V001932	O	128-37-0	BHT	ug/kg	n/a	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S10V001932	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V001932	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V001932	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<557	n/a	n/a	n/a	n/a	557	n/a	U
S10V001932	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V001932	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<460	n/a	n/a	n/a	n/a	460	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C28
Sample Depth: 10-12

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001933	W	16984-48-8	Fluoride	ug/g	101	<1.61E-03	0.372	n/a	n/a	n/a	n/a	0.0157	n/a	
S10V001933	W	GLYCOLAT	Glycolate	ug/g	99.6	<9.37E-03	<0.0916	n/a	n/a	n/a	n/a	0.0916	n/a	U
S10V001933	W	71-50-1	Acetate	ug/g	97.2	<6.04E-03	0.182	n/a	n/a	n/a	n/a	0.0591	n/a	B
S10V001933	W	FORMATE	Formate	ug/g	101	<4.67E-03	0.572	n/a	n/a	n/a	n/a	0.0457	n/a	B
S10V001933	W	16887-00-6	Chloride	ug/g	99.4	0.0107	0.632	n/a	n/a	n/a	n/a	0.0976	n/a	
S10V001933	W	14797-65-0	Nitrite	ug/g	100	<0.0192	0.613	n/a	n/a	n/a	n/a	0.188	n/a	B
S10V001933	W	14808-79-8	Sulfate	ug/g	101	<0.0187	458	n/a	n/a	n/a	n/a	2.01	n/a	
S10V001933	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.226	n/a	n/a	n/a	n/a	0.226	n/a	U
S10V001933	W	24959-67-9	Bromide	ug/g	98.4	<0.0580	<0.567	n/a	n/a	n/a	n/a	0.567	n/a	U
S10V001933	W	14797-55-8	Nitrate	ug/g	99.2	<0.0208	2.75	n/a	n/a	n/a	n/a	0.203	n/a	
S10V001933	W	14265-44-2	Phosphate	ug/g	99.0	<0.0167	0.280	n/a	n/a	n/a	n/a	0.163	n/a	B
S10V001934	A	7429-90-5	Aluminum	ug/g	98.0	<0.0300	4.59E+03	n/a	n/a	n/a	n/a	2.99	n/a	
S10V001934	A	7440-39-3	Barium	ug/g	88.6	<3.00E-03	75.9	n/a	n/a	n/a	n/a	0.299	n/a	N
S10V001934	A	7440-41-7	Beryllium	ug/g	89.5	<1.00E-03	<0.0996	n/a	n/a	n/a	n/a	0.0996	n/a	U
S10V001934	A	7440-70-2	Calcium	ug/g	89.6	0.101	5.90E+03	n/a	n/a	n/a	n/a	4.98	n/a	
S10V001934	A	7440-45-1	Cerium	ug/g	92.7	<0.0300	31.3	n/a	n/a	n/a	n/a	2.99	n/a	N
S10V001934	A	7440-48-4	Cobalt	ug/g	80.7	<0.0100	11.3	n/a	n/a	n/a	n/a	0.996	n/a	
S10V001934	A	7440-47-3	Chromium	ug/g	80.7	<5.00E-03	5.34	n/a	n/a	n/a	n/a	0.498	n/a	M
S10V001934	A	7440-50-8	Copper	ug/g	90.0	<5.00E-03	13.5	n/a	n/a	n/a	n/a	0.498	n/a	
S10V001934	A	7439-89-6	Iron	ug/g	83.3	0.0115	3.12E+04	n/a	n/a	n/a	n/a	0.498	n/a	
S10V001934	A	7440-09-7	Potassium	ug/g	94.0	<0.500	586	n/a	n/a	n/a	n/a	49.8	n/a	
S10V001934	A	7439-91-0	Lanthanum	ug/g	90.2	<3.00E-03	13.0	n/a	n/a	n/a	n/a	0.299	n/a	
S10V001934	A	7439-93-2	Lithium	ug/g	88.9	<3.00E-03	3.56	n/a	n/a	n/a	n/a	0.299	n/a	
S10V001934	A	7439-95-4	Magnesium	ug/g	96.8	<0.0500	4.35E+03	n/a	n/a	n/a	n/a	4.98	n/a	
S10V001934	A	7439-96-5	Manganese	ug/g	80.2	<3.00E-03	387	n/a	n/a	n/a	n/a	0.299	n/a	
S10V001934	A	7439-98-7	Molybdenum	ug/g	82.2	<0.0200	<1.99	n/a	n/a	n/a	n/a	1.99	n/a	U
S10V001934	A	7440-23-5	Sodium	ug/g	87.1	<0.100	627	n/a	n/a	n/a	n/a	9.96	n/a	NM
S10V001934	A	7440-02-0	Nickel	ug/g	98.9	<0.0200	6.61	n/a	n/a	n/a	n/a	1.99	n/a	B
S10V001934	A	7723-14-0	Phosphorus	ug/g	81.1	<0.0500	1.35E+03	n/a	n/a	n/a	n/a	4.98	n/a	

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C28
Sample Depth: 10-12

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001934	A	7704-34-9	Sulfur	ug/g	81.2	<0.100	145	n/a	n/a	n/a	n/a	9.96	n/a	
S10V001934	A	7440-21-3	Silicon	ug/g	94.7	<0.0300	69.0	n/a	n/a	n/a	n/a	2.99	n/a	NM
S10V001934	A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	20.2	n/a	n/a	n/a	n/a	0.299	n/a	NM
S10V001934	A	7440-32-6	Titanium	ug/g	82.5	<5.00E-03	2.44E+03	n/a	n/a	n/a	n/a	0.498	n/a	
S10V001934	A	7440-62-2	Vanadium	ug/g	84.5	<5.00E-03	82.6	n/a	n/a	n/a	n/a	0.498	n/a	
S10V001934	A	7440-65-5	Yttrium	ug/g	82.8	<2.00E-03	15.9	n/a	n/a	n/a	n/a	0.199	n/a	
S10V001934	A	7440-66-6	Zinc	ug/g	81.5	<5.00E-03	53.0	n/a	n/a	n/a	n/a	0.498	n/a	
S10V001934	A	7440-67-7	Zirconium	ug/g	99.0	<5.00E-03	19.3	n/a	n/a	n/a	n/a	0.498	n/a	N
S10V001934	A	14269-63-7	Thorium-230	ug/g	n/a	4.16E-06	3.47E-05	n/a	n/a	n/a	n/a	2.77E-05	n/a	B
S10V001934	A	TH-232	Thorium-232	ug/g	107	<2.00E-04	1.87	n/a	n/a	n/a	n/a	1.98E-03	n/a	
S10V001934	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	5.97E-05	n/a	n/a	n/a	n/a	3.99E-05	n/a	
S10V001934	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	4.89E-05	n/a	n/a	n/a	n/a	1.99E-05	n/a	
S10V001934	A	15117-96-1	Uranium-235	ug/g	97.2	<4.00E-06	3.46E-03	n/a	n/a	n/a	n/a	3.99E-05	n/a	
S10V001934	A	13982-70-2	Uranium-236	ug/g	n/a	1.62E-06	2.69E-05	n/a	n/a	n/a	n/a	1.59E-05	n/a	B
S10V001934	A	13994-20-2	Neptunium-237	ug/g	100	<4.00E-05	<3.99E-04	n/a	n/a	n/a	n/a	3.99E-04	n/a	U
S10V001934	A	U-238	Uranium-238	ug/g	106	<2.00E-04	0.474	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V001934	A	7440-22-4	Silver	ug/g	119	<4.00E-04	0.0591	n/a	n/a	n/a	n/a	3.99E-03	n/a	
S10V001934	A	7440-38-2	Arsenic	ug/g	106	<8.40E-03	3.03	n/a	n/a	n/a	n/a	0.0837	n/a	
S10V001934	A	7440-43-9	Cadmium	ug/g	107	<1.80E-03	0.0702	n/a	n/a	n/a	n/a	0.0120	n/a	B
S10V001934	A	7439-92-1	Lead	ug/g	99.4	<3.00E-03	2.46	n/a	n/a	n/a	n/a	0.0299	n/a	
S10V001934	A	7782-49-2	Selenium	ug/g	104	<0.0270	0.965	n/a	n/a	n/a	n/a	0.269	n/a	B
S10V001934	A	7440-28-0	Thallium	ug/g	98.8	<4.00E-04	0.0546	n/a	n/a	n/a	n/a	7.97E-03	n/a	B
S10V001935	S	14798-03-9	Ammonium	ug/g	91.0	0.244	1.35	n/a	n/a	n/a	n/a	0.465	n/a	CB
S10V001936	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.96E-04	n/a	n/a	n/a	n/a	2.96E-04	n/a	UN
S10V001936	A	SN-117	Tin-117	ug/g	108	<1.00E-03	0.0132	n/a	n/a	n/a	n/a	9.87E-03	n/a	N
S10V001936	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	<1.97E-04	n/a	n/a	n/a	n/a	1.97E-04	n/a	U
S10V001937	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.10E-07	<2.44E-07	n/a	n/a	n/a	n/a	2.44E-07	n/a	U
S10V001937	E	14596-10-2	Americium-241	uCi/g	93.7	<5.25E-07	<6.09E-07	n/a	n/a	n/a	n/a	6.09E-07	n/a	U
S10V001937	E	15510-73-3	Curium-242	uCi/g	n/a	<2.10E-07	<2.44E-07	n/a	n/a	n/a	n/a	2.44E-07	n/a	U

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Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C28

Sample Depth: 10-12

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001937	E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<6.08E-07	<3.22E-07	n/a	n/a	n/a	n/a	3.22E-07	n/a	U
S10V001937	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-07	<3.22E-07	n/a	n/a	n/a	n/a	3.22E-07	n/a	U
S10V001938	E	SR-89/90	Strontium-89/90	uCi/g	98.8	<1.88E-07	<2.41E-07	n/a	n/a	n/a	n/a	2.41E-07	n/a	U
S10V001939	E	13981-37-8	Nickel-63	uCi/g	105	<5.73E-06	<5.93E-06	n/a	n/a	n/a	n/a	5.93E-06	n/a	U
S10V001939	E	15758-45-9	Selenium-79	uCi/g	n/a	2.39E-06	2.65E-06	n/a	n/a	n/a	n/a	1.70E-06	1069.553	B

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C29
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001920			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0847	n/a	n/a	n/a	n/a	0.0847	n/a	U
S10V001920			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S10V001920			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.195	n/a	n/a	n/a	n/a	0.195	n/a	U
S10V001920			75-35-4	1,1-Dichloroethene	ug/kg	95.3	<0.423	<0.390	n/a	n/a	n/a	n/a	0.390	n/a	U
S10V001920			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0495	n/a	n/a	n/a	n/a	0.0495	n/a	U
S10V001920			71-36-3	1-Butanol	ug/kg	118	<10.3	<9.48	n/a	n/a	n/a	n/a	9.48	n/a	U
S10V001920			108-10-1	Hexone	ug/kg	126	<1.71	<1.57	n/a	n/a	n/a	n/a	1.57	n/a	U
S10V001920			67-64-1	Acetone	ug/kg	109	<2.20	<2.03	n/a	n/a	n/a	n/a	2.03	n/a	U
S10V001920			71-43-2	Benzene	ug/kg	103	<0.147	<0.136	n/a	n/a	n/a	n/a	0.136	n/a	U
S10V001920			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.148	n/a	n/a	n/a	n/a	0.148	n/a	U
S10V001920			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0860	n/a	n/a	n/a	n/a	0.0860	n/a	U
S10V001920			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.120	n/a	n/a	n/a	n/a	0.120	n/a	U
S10V001920			108-90-7	Chlorobenzene	ug/kg	106	<0.0864	<0.0796	n/a	n/a	n/a	n/a	0.0796	n/a	U
S10V001920			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0987	n/a	n/a	n/a	n/a	0.0987	n/a	U
S10V001920			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.187	n/a	n/a	n/a	n/a	0.187	n/a	U
S10V001920			78-93-3	2-Butanone	ug/kg	116	<1.96	<1.81	n/a	n/a	n/a	n/a	1.81	n/a	U
S10V001920			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0589	n/a	n/a	n/a	n/a	0.0589	n/a	U
S10V001920			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.101	n/a	n/a	n/a	n/a	0.101	n/a	U
S10V001920			100-42-5	Styrene	ug/kg	n/a	0.371	0.318	n/a	n/a	n/a	n/a	0.117	n/a	BJ
S10V001920			108-88-3	Toluene	ug/kg	103	0.221	0.520	n/a	n/a	n/a	n/a	0.0738	n/a	BJ
S10V001920			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S10V001920			79-01-6	Trichloroethene	ug/kg	102	<0.121	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S10V001920			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.160	n/a	n/a	n/a	n/a	0.160	n/a	U
S10V001920			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S10V001920			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.279	n/a	n/a	n/a	n/a	0.279	n/a	U
S10V001920			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.107	n/a	n/a	n/a	n/a	0.107	n/a	U
S10V001920			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.541	n/a	n/a	n/a	n/a	0.541	n/a	U
S10V001920			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.541	n/a	n/a	n/a	n/a	0.541	n/a	U
S10V001920			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.236	n/a	n/a	n/a	n/a	0.236	n/a	U

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Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C29

Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001920			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0866	n/a	n/a	n/a	n/a	0.0866	n/a	U
S10V001920			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0847	n/a	n/a	n/a	n/a	0.0847	n/a	U
S10V001920			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.154	n/a	n/a	n/a	n/a	0.154	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C30
Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001946		%WATERA	%WATER-APD	%	n/a	n/a	4.910	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V001946		57-12-5	Cyanide	ug/g	99.7	<0.0370	<2.64	n/a	n/a	n/a	n/a	2.64	n/a	U
S10V001946		7439-97-6	Mercury	ug/g	96.3	<1.00E-04	<9.14E-03	n/a	n/a	n/a	n/a	9.14E-03	n/a	U
S10V001946		PH	pH	unitless	n/a	n/a	9.71	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V001946		12597-04-5	Sulfide	ug/g	82.8	<0.180	12.7	n/a	n/a	n/a	n/a	7.03	n/a	B
S10V001948		13966-00-2	Potassium-40	uCi/g	n/a	n/a	9.70E-06	1.11E-05	n/a	n/a	n/a	7.18E-06	47.56	
S10V001948		10198-40-0	Cobalt-60	uCi/g	99.1	<2.73E-07	<3.54E-07	<3.54E-07	n/a	n/a	n/a	3.54E-07	n/a	U
S10V001948		14234-35-6	Antimony-125	uCi/g	n/a	<7.34E-07	<9.18E-07	<8.55E-07	n/a	n/a	n/a	9.18E-07	n/a	U
S10V001948		10045-97-3	Cesium-137	uCi/g	101	<3.64E-07	<4.56E-07	<4.19E-07	n/a	n/a	n/a	4.56E-07	n/a	U
S10V001948		14683-23-9	Europium-152	uCi/g	n/a	<1.35E-06	<1.82E-06	<1.56E-06	n/a	n/a	n/a	1.82E-06	n/a	U
S10V001948		15585-10-1	Europium-154	uCi/g	n/a	<8.57E-07	<1.22E-06	<1.09E-06	n/a	n/a	n/a	1.22E-06	n/a	U
S10V001948		14391-16-3	Europium-155	uCi/g	n/a	<4.62E-07	<5.93E-07	<5.36E-07	n/a	n/a	n/a	5.93E-07	n/a	U
S10V001948		14274-82-9	Thorium-228	uCi/g	n/a	<8.13E-06	<1.08E-05	<9.98E-06	n/a	n/a	n/a	1.08E-05	n/a	U
S10V001948		15065-10-8	Thorium-234	uCi/g	n/a	<2.85E-06	<3.55E-06	<3.42E-06	n/a	n/a	n/a	3.55E-06	n/a	U
S10V001948		15046-84-1	Iodine-129	uCi/g	111	<1.83E-07	<2.23E-07	n/a	n/a	n/a	n/a	2.23E-07	n/a	U
S10V001949	WV	14133-76-7	Technetium-99	ug/g	110	<4.00E-06	<4.01E-06	n/a	n/a	n/a	n/a	4.01E-06	n/a	U
S10V001950	W	14762-75-5	Carbon-14	uCi/g	91.6	<1.40E-06	<1.29E-06	n/a	n/a	n/a	n/a	1.29E-06	n/a	U
S10V001950	W	10028-17-8	Tritium	uCi/g	92.9	<3.75E-07	<5.10E-05	n/a	n/a	n/a	n/a	5.10E-05	n/a	U
S10V001951	A	7440-36-0	Antimony	ug/g	102	<2.00E-04	0.111	n/a	n/a	n/a	n/a	9.70E-03	n/a	B
S10V001952	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	60.1	<77.4	<77.3	n/a	n/a	n/a	n/a	77.3	n/a	U
S10V001952	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V001952	O	121-14-2	2,4-Dinitrotoluene	ug/kg	77.8	<38.1	<38.1	n/a	n/a	n/a	n/a	38.1	n/a	U
S10V001952	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U
S10V001952	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S10V001952	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.5	n/a	n/a	n/a	n/a	57.5	n/a	U
S10V001952	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.7	n/a	n/a	n/a	n/a	53.7	n/a	U
S10V001952	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.4	n/a	n/a	n/a	n/a	51.4	n/a	U
S10V001952	O	83-32-9	Acenaphthene	ug/kg	68.0	<17.6	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S10V001952	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U

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E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C30
Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001952	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U
S10V001952	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.2	n/a	n/a	n/a	n/a	41.2	n/a	U
S10V001952	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<590	n/a	n/a	n/a	n/a	590	n/a	U
S10V001952	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.1	n/a	n/a	n/a	n/a	39.1	n/a	U
S10V001952	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S10V001952	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.7	<43.2	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S10V001952	O	95-57-8	2-Chlorophenol	ug/kg	68.0	<66.5	<66.4	n/a	n/a	n/a	n/a	66.4	n/a	U
S10V001952	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.3	n/a	n/a	n/a	n/a	81.3	n/a	U
S10V001952	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S10V001952	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<562	n/a	n/a	n/a	n/a	562	n/a	U
S10V001952	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S10V001952	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	63.8	<58.1	<58.1	n/a	n/a	n/a	n/a	58.1	n/a	U
S10V001952	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S10V001952	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.6	n/a	n/a	n/a	n/a	69.6	n/a	U
S10V001952	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<112	n/a	n/a	n/a	n/a	112	n/a	U
S10V001952	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S10V001952	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S10V001952	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.5	n/a	n/a	n/a	n/a	64.5	n/a	U
S10V001952	O	129-00-0	Pyrene	ug/kg	86.3	<62.9	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S10V001952	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.9	n/a	n/a	n/a	n/a	64.9	n/a	U
S10V001952	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V001952	O	128-37-0	BHT	ug/kg	n/a	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S10V001952	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V001952	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V001952	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<558	n/a	n/a	n/a	n/a	558	n/a	U
S10V001952	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V001952	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<460	n/a	n/a	n/a	n/a	460	n/a	U
S10V001953	W	16984-48-8	Fluoride	ug/g	101	<1.61E-03	1.50	n/a	n/a	n/a	n/a	0.0161	n/a	
S10V001953	W	GLYCOLAT	Glycolate	ug/g	99.6	<9.37E-03	<0.0937	n/a	n/a	n/a	n/a	0.0937	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C30
Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001953	W	71-50-1	Acetate	ug/g	97.2	<6.04E-03	0.520	n/a	n/a	n/a	n/a	0.0604	n/a	B
S10V001953	W	FORMATE	Formate	ug/g	101	<4.67E-03	0.731	n/a	n/a	n/a	n/a	0.0467	n/a	B
S10V001953	W	16887-00-6	Chloride	ug/g	99.4	0.0107	2.09	n/a	n/a	n/a	n/a	0.0998	n/a	
S10V001953	W	14797-65-0	Nitrite	ug/g	100	<0.0192	1.12	n/a	n/a	n/a	n/a	0.192	n/a	B
S10V001953	W	14808-79-8	Sulfate	ug/g	101	<0.0187	43.9	n/a	n/a	n/a	n/a	0.187	n/a	
S10V001953	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.231	n/a	n/a	n/a	n/a	0.231	n/a	U
S10V001953	W	24959-67-9	Bromide	ug/g	98.4	<0.0580	<0.580	n/a	n/a	n/a	n/a	0.580	n/a	U
S10V001953	W	14797-55-8	Nitrate	ug/g	99.2	<0.0208	7.74	n/a	n/a	n/a	n/a	0.208	n/a	
S10V001953	W	14265-44-2	Phosphate	ug/g	99.0	<0.0167	1.18	n/a	n/a	n/a	n/a	0.167	n/a	B
S10V001954	A	7429-90-5	Aluminum	ug/g	98.0	<0.0300	6.93E+03	n/a	n/a	n/a	n/a	2.95	n/a	
S10V001954	A	7440-39-3	Barium	ug/g	88.6	<3.00E-03	89.7	n/a	n/a	n/a	n/a	0.295	n/a	N
S10V001954	A	7440-41-7	Beryllium	ug/g	89.5	<1.00E-03	0.136	n/a	n/a	n/a	n/a	0.0984	n/a	B
S10V001954	A	7440-70-2	Calcium	ug/g	89.6	0.101	8.94E+03	n/a	n/a	n/a	n/a	4.92	n/a	
S10V001954	A	7440-45-1	Cerium	ug/g	92.7	<0.0300	22.2	n/a	n/a	n/a	n/a	2.95	n/a	BN
S10V001954	A	7440-48-4	Cobalt	ug/g	80.7	<0.0100	10.3	n/a	n/a	n/a	n/a	0.984	n/a	
S10V001954	A	7440-47-3	Chromium	ug/g	80.7	<5.00E-03	26.8	n/a	n/a	n/a	n/a	0.492	n/a	M
S10V001954	A	7440-50-8	Copper	ug/g	90.0	<5.00E-03	11.2	n/a	n/a	n/a	n/a	0.492	n/a	
S10V001954	A	7439-89-6	Iron	ug/g	83.3	0.0115	2.68E+04	n/a	n/a	n/a	n/a	0.492	n/a	
S10V001954	A	7440-09-7	Potassium	ug/g	94.0	<0.500	792	n/a	n/a	n/a	n/a	49.2	n/a	
S10V001954	A	7439-91-0	Lanthanum	ug/g	90.2	<3.00E-03	9.31	n/a	n/a	n/a	n/a	0.295	n/a	
S10V001954	A	7439-93-2	Lithium	ug/g	88.9	<3.00E-03	6.80	n/a	n/a	n/a	n/a	0.295	n/a	
S10V001954	A	7439-95-4	Magnesium	ug/g	96.8	<0.0500	4.43E+03	n/a	n/a	n/a	n/a	4.92	n/a	
S10V001954	A	7439-96-5	Manganese	ug/g	80.2	<3.00E-03	424	n/a	n/a	n/a	n/a	0.295	n/a	
S10V001954	A	7439-98-7	Molybdenum	ug/g	82.2	<0.0200	<1.97	n/a	n/a	n/a	n/a	1.97	n/a	U
S10V001954	A	7440-23-5	Sodium	ug/g	87.1	<0.100	569	n/a	n/a	n/a	n/a	9.84	n/a	NM
S10V001954	A	7440-02-0	Nickel	ug/g	98.9	<0.0200	18.3	n/a	n/a	n/a	n/a	1.97	n/a	B
S10V001954	A	7723-14-0	Phosphorus	ug/g	81.1	<0.0500	748	n/a	n/a	n/a	n/a	4.92	n/a	
S10V001954	A	7704-34-9	Sulfur	ug/g	81.2	<0.100	73.1	n/a	n/a	n/a	n/a	9.84	n/a	B
S10V001954	A	7440-21-3	Silicon	ug/g	94.7	<0.0300	82.6	n/a	n/a	n/a	n/a	2.95	n/a	NM

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C30
Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001954	A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	35.1	n/a	n/a	n/a	n/a	0.295	n/a	NM
S10V001954	A	7440-32-6	Titanium	ug/g	82.5	<5.00E-03	1.98E+03	n/a	n/a	n/a	n/a	0.492	n/a	
S10V001954	A	7440-62-2	Vanadium	ug/g	84.5	<5.00E-03	75.1	n/a	n/a	n/a	n/a	0.492	n/a	
S10V001954	A	7440-65-5	Yttrium	ug/g	82.8	<2.00E-03	9.43	n/a	n/a	n/a	n/a	0.197	n/a	
S10V001954	A	7440-66-6	Zinc	ug/g	81.5	<5.00E-03	42.8	n/a	n/a	n/a	n/a	0.492	n/a	
S10V001954	A	7440-67-7	Zirconium	ug/g	99.0	<5.00E-03	18.7	n/a	n/a	n/a	n/a	0.492	n/a	N
S10V001954	A	14269-63-7	Thorium-230	ug/g	n/a	4.16E-06	<2.80E-05	n/a	n/a	n/a	n/a	2.80E-05	n/a	U
S10V001954	A	TH-232	Thorium-232	ug/g	107	<2.00E-04	3.22	n/a	n/a	n/a	n/a	2.00E-03	n/a	
S10V001954	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.41E-04	n/a	n/a	n/a	n/a	3.94E-05	n/a	
S10V001954	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<1.97E-05	n/a	n/a	n/a	n/a	1.97E-05	n/a	U
S10V001954	A	15117-96-1	Uranium-235	ug/g	97.2	<4.00E-06	3.29E-03	n/a	n/a	n/a	n/a	3.94E-05	n/a	
S10V001954	A	13982-70-2	Uranium-236	ug/g	n/a	1.62E-06	<1.57E-05	n/a	n/a	n/a	n/a	1.57E-05	n/a	U
S10V001954	A	13994-20-2	Neptunium-237	ug/g	100	<4.00E-05	<3.94E-04	n/a	n/a	n/a	n/a	3.94E-04	n/a	U
S10V001954	A	U-238	Uranium-238	ug/g	106	<2.00E-04	0.504	n/a	n/a	n/a	n/a	1.97E-03	n/a	
S10V001954	A	7440-22-4	Silver	ug/g	119	<4.00E-04	0.0618	n/a	n/a	n/a	n/a	3.94E-03	n/a	
S10V001954	A	7440-38-2	Arsenic	ug/g	106	<8.40E-03	2.95	n/a	n/a	n/a	n/a	0.0827	n/a	
S10V001954	A	7440-43-9	Cadmium	ug/g	107	<1.80E-03	0.0661	n/a	n/a	n/a	n/a	0.0118	n/a	B
S10V001954	A	7439-92-1	Lead	ug/g	99.4	<3.00E-03	3.37	n/a	n/a	n/a	n/a	0.0295	n/a	
S10V001954	A	7782-49-2	Selenium	ug/g	104	<0.0270	0.602	n/a	n/a	n/a	n/a	0.266	n/a	B
S10V001954	A	7440-28-0	Thallium	ug/g	98.8	<4.00E-04	0.0774	n/a	n/a	n/a	n/a	7.87E-03	n/a	B
S10V001955	S	14798-03-9	Ammonium	ug/g	91.0	0.244	19.9	n/a	n/a	n/a	n/a	0.467	n/a	
S10V001956	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.95E-04	n/a	n/a	n/a	n/a	2.95E-04	n/a	U
S10V001956	A	SN-117	Tin-117	ug/g	108	<1.00E-03	<9.85E-03	n/a	n/a	n/a	n/a	9.85E-03	n/a	UN
S10V001956	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	3.15E-04	n/a	n/a	n/a	n/a	1.97E-04	n/a	BE N
S10V001957	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.10E-07	<2.22E-07	<2.05E-07	n/a	n/a	n/a	2.22E-07	n/a	U
S10V001957	E	14596-10-2	Americium-241	uCi/g	93.7	<5.25E-07	<5.55E-07	<5.12E-07	n/a	n/a	n/a	5.55E-07	n/a	U
S10V001957	E	15510-73-3	Curium-242	uCi/g	n/a	<2.10E-07	<2.22E-07	<2.05E-07	n/a	n/a	n/a	2.22E-07	n/a	U
S10V001957	E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<6.08E-07	<3.40E-07	<3.45E-07	n/a	n/a	n/a	3.40E-07	n/a	U
S10V001957	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-07	<3.40E-07	<3.45E-07	n/a	n/a	n/a	3.40E-07	n/a	U

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Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C30

Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001958	E	SR-89/90	Strontium-89/90	uCi/g	98.8	<1.88E-07	<1.88E-07	<6.48E-07	n/a	n/a	n/a	1.88E-07	n/a	U
S10V001959	E	13981-37-8	Nickel-63	uCi/g	105	<5.73E-06	<5.42E-06	<5.33E-06	n/a	n/a	n/a	5.42E-06	n/a	U
S10V001959	E	15758-45-9	Selenium-79	uCi/g	n/a	2.39E-06	<1.99E-06	2.32E-06	2.16E-06	15.3	n/a	1.99E-06	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C31
Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001940		71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.107	n/a	n/a	n/a	n/a	0.107	n/a	U
S10V001940		79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S10V001940		79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.247	n/a	n/a	n/a	n/a	0.247	n/a	U
S10V001940		75-35-4	1,1-Dichloroethene	ug/kg	95.3	<0.423	<0.494	n/a	n/a	n/a	n/a	0.494	n/a	U
S10V001940		107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0628	n/a	n/a	n/a	n/a	0.0628	n/a	U
S10V001940		71-36-3	1-Butanol	ug/kg	118	<10.3	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
S10V001940		108-10-1	Hexone	ug/kg	126	<1.71	<2.00	n/a	n/a	n/a	n/a	2.00	n/a	U
S10V001940		67-64-1	Acetone	ug/kg	109	<2.20	<2.57	n/a	n/a	n/a	n/a	2.57	n/a	U
S10V001940		71-43-2	Benzene	ug/kg	103	<0.147	<0.172	n/a	n/a	n/a	n/a	0.172	n/a	U
S10V001940		75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S10V001940		56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S10V001940		67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S10V001940		108-90-7	Chlorobenzene	ug/kg	106	<0.0864	<0.101	n/a	n/a	n/a	n/a	0.101	n/a	U
S10V001940		100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.125	n/a	n/a	n/a	n/a	0.125	n/a	U
S10V001940		1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.237	n/a	n/a	n/a	n/a	0.237	n/a	U
S10V001940		78-93-3	2-Butanone	ug/kg	116	<1.96	<2.29	n/a	n/a	n/a	n/a	2.29	n/a	U
S10V001940		75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0748	n/a	n/a	n/a	n/a	0.0748	n/a	U
S10V001940		127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.128	n/a	n/a	n/a	n/a	0.128	n/a	U
S10V001940		100-42-5	Styrene	ug/kg	n/a	0.371	0.273	n/a	n/a	n/a	n/a	0.148	n/a	BJ
S10V001940		108-88-3	Toluene	ug/kg	103	0.221	0.601	n/a	n/a	n/a	n/a	0.0937	n/a	BJ
S10V001940		10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.317	n/a	n/a	n/a	n/a	0.317	n/a	U
S10V001940		79-01-6	Trichloroethene	ug/kg	102	<0.121	<0.141	n/a	n/a	n/a	n/a	0.141	n/a	U
S10V001940		75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.203	n/a	n/a	n/a	n/a	0.203	n/a	U
S10V001940		156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.212	n/a	n/a	n/a	n/a	0.212	n/a	U
S10V001940		156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.354	n/a	n/a	n/a	n/a	0.354	n/a	U
S10V001940		76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.136	n/a	n/a	n/a	n/a	0.136	n/a	U
S10V001940		79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.687	n/a	n/a	n/a	n/a	0.687	n/a	U
S10V001940		141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.686	n/a	n/a	n/a	n/a	0.686	n/a	U
S10V001940		60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.299	n/a	n/a	n/a	n/a	0.299	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C31
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001940			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.110	n/a	n/a	n/a	n/a	0.110	n/a	U
S10V001940			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.107	n/a	n/a	n/a	n/a	0.107	n/a	U
S10V001940			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.196	n/a	n/a	n/a	n/a	0.196	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C32
Sample Depth: 17-19

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001966		%WATERA	%WATER-APD	%	n/a	n/a	4.490	4.520	4.505	0.6659	n/a	0.01000	n/a	
S10V001966		57-12-5	Cyanide	ug/g	99.7	<0.0370	<2.62	n/a	n/a	n/a	n/a	2.62	n/a	U
S10V001966		7439-97-6	Mercury	ug/g	96.3	<1.00E-04	<9.10E-03	n/a	n/a	n/a	n/a	9.10E-03	n/a	U
S10V001966		PH	pH	unitless	n/a	n/a	9.51	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V001966		12597-04-5	Sulfide	ug/g	82.8	<0.180	11.6	n/a	n/a	n/a	n/a	7.01	n/a	B
S10V001968		13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.03E-05	n/a	n/a	n/a	n/a	7.82E-06	48.64	
S10V001968		10198-40-0	Cobalt-60	uCi/g	99.1	<2.73E-07	<4.13E-07	n/a	n/a	n/a	n/a	4.13E-07	n/a	U
S10V001968		14234-35-6	Antimony-125	uCi/g	n/a	<7.34E-07	<1.03E-06	n/a	n/a	n/a	n/a	1.03E-06	n/a	U
S10V001968		10045-97-3	Cesium-137	uCi/g	101	<3.64E-07	<4.78E-07	n/a	n/a	n/a	n/a	4.78E-07	n/a	U
S10V001968		14683-23-9	Europium-152	uCi/g	n/a	<1.35E-06	<1.82E-06	n/a	n/a	n/a	n/a	1.82E-06	n/a	U
S10V001968		15585-10-1	Europium-154	uCi/g	n/a	<8.57E-07	<1.28E-06	n/a	n/a	n/a	n/a	1.28E-06	n/a	U
S10V001968		14391-16-3	Europium-155	uCi/g	n/a	<4.62E-07	<6.65E-07	n/a	n/a	n/a	n/a	6.65E-07	n/a	U
S10V001968		15067-28-4	Lead-214	uCi/g	n/a	n/a	1.69E-06	n/a	n/a	n/a	n/a	9.64E-07	22.23	
S10V001968		14274-82-9	Thorium-228	uCi/g	n/a	<8.13E-06	<1.19E-05	n/a	n/a	n/a	n/a	1.19E-05	n/a	U
S10V001968		15065-10-8	Thorium-234	uCi/g	n/a	<2.85E-06	<4.10E-06	n/a	n/a	n/a	n/a	4.10E-06	n/a	U
S10V001968		15046-84-1	Iodine-129	uCi/g	111	<1.83E-07	<1.46E-07	n/a	n/a	n/a	n/a	1.46E-07	n/a	U
S10V001969	WV	14133-76-7	Technetium-99	ug/g	110	<4.00E-06	<3.96E-06	n/a	n/a	n/a	n/a	3.96E-06	n/a	U
S10V001970	W	14762-75-5	Carbon-14	uCi/g	91.6	<1.40E-06	<1.33E-06	n/a	n/a	n/a	n/a	1.33E-06	n/a	U
S10V001970	W	10028-17-8	Tritium	uCi/g	92.9	<3.75E-07	<9.67E-05	n/a	n/a	n/a	n/a	9.67E-05	n/a	U
S10V001971	A	7440-36-0	Antimony	ug/g	102	<2.00E-04	0.125	n/a	n/a	n/a	n/a	9.94E-03	n/a	B
S10V001972	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	60.1	<77.4	<77.2	n/a	n/a	n/a	53.4	77.2	n/a	U
S10V001972	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S10V001972	O	121-14-2	2,4-Dinitrotoluene	ug/kg	77.8	<38.1	<38.0	n/a	n/a	n/a	77.4	38.0	n/a	U
S10V001972	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S10V001972	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V001972	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.3	n/a	n/a	n/a	n/a	57.3	n/a	U
S10V001972	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.5	n/a	n/a	n/a	n/a	53.5	n/a	U
S10V001972	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S10V001972	O	83-32-9	Acenaphthene	ug/kg	68.0	<17.6	<17.5	n/a	n/a	n/a	63.8	17.5	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C32
Sample Depth: 17-19

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001972	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V001972	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U
S10V001972	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.1	n/a	n/a	n/a	n/a	41.1	n/a	U
S10V001972	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<588	n/a	n/a	n/a	n/a	588	n/a	U
S10V001972	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.0	n/a	n/a	n/a	n/a	39.0	n/a	U
S10V001972	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.9	n/a	n/a	n/a	n/a	49.9	n/a	U
S10V001972	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.7	<43.2	<43.1	n/a	n/a	n/a	59.2	43.1	n/a	U
S10V001972	O	95-57-8	2-Chlorophenol	ug/kg	68.0	<66.5	<66.3	n/a	n/a	n/a	61.1	66.3	n/a	U
S10V001972	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.2	n/a	n/a	n/a	n/a	81.2	n/a	U
S10V001972	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S10V001972	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<561	n/a	n/a	n/a	n/a	561	n/a	U
S10V001972	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S10V001972	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	63.8	<58.1	<57.9	n/a	n/a	n/a	57.5	57.9	n/a	U
S10V001972	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S10V001972	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.5	n/a	n/a	n/a	n/a	69.5	n/a	U
S10V001972	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V001972	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S10V001972	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.4	n/a	n/a	n/a	n/a	62.4	n/a	U
S10V001972	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.4	n/a	n/a	n/a	n/a	64.4	n/a	U
S10V001972	O	129-00-0	Pyrene	ug/kg	86.3	<62.9	<62.7	n/a	n/a	n/a	73.0	62.7	n/a	U
S10V001972	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	U
S10V001972	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V001972	O	128-37-0	BHT	ug/kg	n/a	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S10V001972	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V001972	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V001972	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V001972	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V001972	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<459	n/a	n/a	n/a	n/a	459	n/a	U
S10V001973	W	16984-48-8	Fluoride	ug/g	101	<1.61E-03	1.86	n/a	n/a	n/a	n/a	0.0161	n/a	

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C32
Sample Depth: 17-19

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001973	W	GLYCOLAT	Glycolate	ug/g	99.6	<9.37E-03	<0.0937	n/a	n/a	n/a	n/a	0.0937	n/a	U
S10V001973	W	71-50-1	Acetate	ug/g	97.2	<6.04E-03	0.456	n/a	n/a	n/a	n/a	0.0604	n/a	B
S10V001973	W	FORMATE	Formate	ug/g	101	<4.67E-03	1.66	n/a	n/a	n/a	n/a	0.0467	n/a	B
S10V001973	W	16887-00-6	Chloride	ug/g	99.4	0.0107	1.71	n/a	n/a	n/a	n/a	0.0998	n/a	
S10V001973	W	14797-65-0	Nitrite	ug/g	100	<0.0192	0.684	n/a	n/a	n/a	n/a	0.192	n/a	B
S10V001973	W	14808-79-8	Sulfate	ug/g	101	<0.0187	40.5	n/a	n/a	n/a	n/a	0.187	n/a	
S10V001973	W	338-70-5	Oxalate	ug/g	101	<0.0231	0.618	n/a	n/a	n/a	n/a	0.231	n/a	B
S10V001973	W	24959-67-9	Bromide	ug/g	98.4	<0.0580	<0.580	n/a	n/a	n/a	n/a	0.580	n/a	U
S10V001973	W	14797-55-8	Nitrate	ug/g	99.2	<0.0208	7.06	n/a	n/a	n/a	n/a	0.208	n/a	
S10V001973	W	14265-44-2	Phosphate	ug/g	99.0	<0.0167	1.37	n/a	n/a	n/a	n/a	0.167	n/a	B
S10V002038	A	7429-90-5	Aluminum	ug/g	98.0	<0.0300	7.31E+03	n/a	n/a	n/a	n/a	2.99	n/a	
S10V002038	A	7440-39-3	Barium	ug/g	88.6	<3.00E-03	84.8	n/a	n/a	n/a	n/a	0.299	n/a	N
S10V002038	A	7440-41-7	Beryllium	ug/g	89.5	<1.00E-03	0.161	n/a	n/a	n/a	n/a	0.0997	n/a	B
S10V002038	A	7440-70-2	Calcium	ug/g	89.6	0.101	8.77E+03	n/a	n/a	n/a	n/a	4.98	n/a	
S10V002038	A	7440-45-1	Cerium	ug/g	92.7	<0.0300	23.3	n/a	n/a	n/a	n/a	2.99	n/a	BN
S10V002038	A	7440-48-4	Cobalt	ug/g	80.7	<0.0100	10.6	n/a	n/a	n/a	n/a	0.997	n/a	
S10V002038	A	7440-47-3	Chromium	ug/g	80.7	<5.00E-03	22.8	n/a	n/a	n/a	n/a	0.498	n/a	M
S10V002038	A	7440-50-8	Copper	ug/g	90.0	<5.00E-03	10.6	n/a	n/a	n/a	n/a	0.498	n/a	
S10V002038	A	7439-89-6	Iron	ug/g	83.3	0.0115	2.49E+04	n/a	n/a	n/a	n/a	0.498	n/a	
S10V002038	A	7440-09-7	Potassium	ug/g	94.0	<0.500	915	n/a	n/a	n/a	n/a	49.8	n/a	
S10V002038	A	7439-91-0	Lanthanum	ug/g	90.2	<3.00E-03	9.39	n/a	n/a	n/a	n/a	0.299	n/a	
S10V002038	A	7439-93-2	Lithium	ug/g	88.9	<3.00E-03	7.29	n/a	n/a	n/a	n/a	0.299	n/a	
S10V002038	A	7439-95-4	Magnesium	ug/g	96.8	<0.0500	4.49E+03	n/a	n/a	n/a	n/a	4.98	n/a	
S10V002038	A	7439-96-5	Manganese	ug/g	80.2	<3.00E-03	409	n/a	n/a	n/a	n/a	0.299	n/a	
S10V002038	A	7439-98-7	Molybdenum	ug/g	82.2	<0.0200	<1.99	n/a	n/a	n/a	n/a	1.99	n/a	U
S10V002038	A	7440-23-5	Sodium	ug/g	87.1	<0.100	444	n/a	n/a	n/a	n/a	9.97	n/a	NM
S10V002038	A	7440-02-0	Nickel	ug/g	98.9	<0.0200	14.6	n/a	n/a	n/a	n/a	1.99	n/a	B
S10V002038	A	7723-14-0	Phosphorus	ug/g	81.1	<0.0500	673	n/a	n/a	n/a	n/a	4.98	n/a	
S10V002038	A	7704-34-9	Sulfur	ug/g	81.2	<0.100	62.6	n/a	n/a	n/a	n/a	9.97	n/a	B

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C32
Sample Depth: 17-19

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002038	A	7440-21-3	Silicon	ug/g	94.7	<0.0300	94.5	n/a	n/a	n/a	n/a	2.99	n/a	NM
S10V002038	A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	35.9	n/a	n/a	n/a	n/a	0.299	n/a	NM
S10V002038	A	7440-32-6	Titanium	ug/g	82.5	<5.00E-03	1.85E+03	n/a	n/a	n/a	n/a	0.498	n/a	
S10V002038	A	7440-62-2	Vanadium	ug/g	84.5	<5.00E-03	71.2	n/a	n/a	n/a	n/a	0.498	n/a	
S10V002038	A	7440-65-5	Yttrium	ug/g	82.8	<2.00E-03	8.55	n/a	n/a	n/a	n/a	0.199	n/a	
S10V002038	A	7440-66-6	Zinc	ug/g	81.5	<5.00E-03	42.0	n/a	n/a	n/a	n/a	0.498	n/a	
S10V002038	A	7440-67-7	Zirconium	ug/g	99.0	<5.00E-03	15.7	n/a	n/a	n/a	n/a	0.498	n/a	N
S10V002038	A	14269-63-7	Thorium-230	ug/g	n/a	4.16E-06	<2.78E-05	n/a	n/a	n/a	n/a	2.78E-05	n/a	U
S10V002038	A	TH-232	Thorium-232	ug/g	107	<2.00E-04	2.82	n/a	n/a	n/a	n/a	1.98E-03	n/a	
S10V002038	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.87E-04	n/a	n/a	n/a	n/a	3.99E-05	n/a	
S10V002038	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	9.03E-05	n/a	n/a	n/a	n/a	1.99E-05	n/a	
S10V002038	A	15117-96-1	Uranium-235	ug/g	97.2	<4.00E-06	6.37E-03	n/a	n/a	n/a	n/a	3.99E-05	n/a	
S10V002038	A	13982-70-2	Uranium-236	ug/g	n/a	1.62E-06	2.01E-05	n/a	n/a	n/a	n/a	1.60E-05	n/a	B
S10V002038	A	13994-20-2	Neptunium-237	ug/g	100	<4.00E-05	<3.99E-04	n/a	n/a	n/a	n/a	3.99E-04	n/a	U
S10V002038	A	U-238	Uranium-238	ug/g	106	<2.00E-04	0.981	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002038	A	7440-22-4	Silver	ug/g	119	<4.00E-04	0.0566	n/a	n/a	n/a	n/a	3.99E-03	n/a	
S10V002038	A	7440-38-2	Arsenic	ug/g	106	<8.40E-03	2.90	n/a	n/a	n/a	n/a	0.0837	n/a	
S10V002038	A	7440-43-9	Cadmium	ug/g	107	<1.80E-03	0.0614	n/a	n/a	n/a	n/a	0.0120	n/a	B
S10V002038	A	7439-92-1	Lead	ug/g	99.4	<3.00E-03	3.76	n/a	n/a	n/a	n/a	0.0299	n/a	
S10V002038	A	7782-49-2	Selenium	ug/g	104	<0.0270	0.540	n/a	n/a	n/a	n/a	0.269	n/a	B
S10V002038	A	7440-28-0	Thallium	ug/g	98.8	<4.00E-04	0.0819	n/a	n/a	n/a	n/a	7.98E-03	n/a	
S10V002039	S	14798-03-9	Ammonium	ug/g	91.0	0.244	9.45	n/a	n/a	n/a	n/a	0.479	n/a	C
S10V002040	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.97E-04	n/a	n/a	n/a	n/a	2.97E-04	n/a	U
S10V002040	A	SN-117	Tin-117	ug/g	108	<1.00E-03	<9.89E-03	n/a	n/a	n/a	n/a	9.89E-03	n/a	UN
S10V002040	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.94E-04	n/a	n/a	n/a	n/a	1.98E-04	n/a	BE N
S10V002041	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.10E-07	<2.03E-07	n/a	n/a	n/a	n/a	2.03E-07	n/a	U
S10V002041	E	14596-10-2	Americium-241	uCi/g	93.7	<5.25E-07	<5.06E-07	n/a	n/a	n/a	n/a	5.06E-07	n/a	U
S10V002041	E	15510-73-3	Curium-242	uCi/g	n/a	<2.10E-07	<2.03E-07	n/a	n/a	n/a	n/a	2.03E-07	n/a	U
S10V002041	E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<6.08E-07	<3.05E-07	n/a	n/a	n/a	n/a	3.05E-07	n/a	U

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C - Blank Contamination
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B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C32

Sample Depth: 17-19

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002041	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-07	<3.05E-07	n/a	n/a	n/a	n/a	3.05E-07	n/a	U
S10V002042	E	SR-89/90	Strontium-89/90	uCi/g	98.8	<1.88E-07	<5.69E-07	n/a	n/a	n/a	n/a	5.69E-07	n/a	U
S10V002043	E	13981-37-8	Nickel-63	uCi/g	105	<5.73E-06	<5.86E-06	n/a	n/a	n/a	n/a	5.86E-06	n/a	U
S10V002043	E	15758-45-9	Selenium-79	uCi/g	n/a	2.39E-06	6.17E-06	n/a	n/a	n/a	n/a	1.62E-06	51.738	B

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N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C33
Sample Depth: 17-19

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001960			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0975	n/a	n/a	n/a	n/a	0.0975	n/a	U
S10V001960			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.176	n/a	n/a	n/a	n/a	0.176	n/a	U
S10V001960			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S10V001960			75-35-4	1,1-Dichloroethene	ug/kg	95.3	<0.423	<0.448	n/a	n/a	n/a	n/a	0.448	n/a	U
S10V001960			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0570	n/a	n/a	n/a	n/a	0.0570	n/a	U
S10V001960			71-36-3	1-Butanol	ug/kg	118	<10.3	<10.9	n/a	n/a	n/a	n/a	10.9	n/a	U
S10V001960			108-10-1	Hexone	ug/kg	126	<1.71	<1.81	n/a	n/a	n/a	n/a	1.81	n/a	U
S10V001960			67-64-1	Acetone	ug/kg	109	<2.20	<2.33	n/a	n/a	n/a	n/a	2.33	n/a	U
S10V001960			71-43-2	Benzene	ug/kg	103	<0.147	<0.156	n/a	n/a	n/a	n/a	0.156	n/a	U
S10V001960			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.170	n/a	n/a	n/a	n/a	0.170	n/a	U
S10V001960			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0989	n/a	n/a	n/a	n/a	0.0989	n/a	U
S10V001960			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.139	n/a	n/a	n/a	n/a	0.139	n/a	U
S10V001960			108-90-7	Chlorobenzene	ug/kg	106	<0.0864	<0.0915	n/a	n/a	n/a	n/a	0.0915	n/a	U
S10V001960			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.114	n/a	n/a	n/a	n/a	0.114	n/a	U
S10V001960			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.215	n/a	n/a	n/a	n/a	0.215	n/a	U
S10V001960			78-93-3	2-Butanone	ug/kg	116	<1.96	<2.08	n/a	n/a	n/a	n/a	2.08	n/a	U
S10V001960			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0678	n/a	n/a	n/a	n/a	0.0678	n/a	U
S10V001960			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.116	n/a	n/a	n/a	n/a	0.116	n/a	U
S10V001960			100-42-5	Styrene	ug/kg	n/a	0.371	0.354	n/a	n/a	n/a	n/a	0.134	n/a	BJ
S10V001960			108-88-3	Toluene	ug/kg	103	0.221	0.421	n/a	n/a	n/a	n/a	0.0850	n/a	BJ
S10V001960			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.287	n/a	n/a	n/a	n/a	0.287	n/a	U
S10V001960			79-01-6	Trichloroethene	ug/kg	102	<0.121	<0.128	n/a	n/a	n/a	n/a	0.128	n/a	U
S10V001960			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.184	n/a	n/a	n/a	n/a	0.184	n/a	U
S10V001960			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.192	n/a	n/a	n/a	n/a	0.192	n/a	U
S10V001960			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.321	n/a	n/a	n/a	n/a	0.321	n/a	U
S10V001960			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.123	n/a	n/a	n/a	n/a	0.123	n/a	U
S10V001960			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.623	n/a	n/a	n/a	n/a	0.623	n/a	U
S10V001960			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.622	n/a	n/a	n/a	n/a	0.622	n/a	U
S10V001960			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.271	n/a	n/a	n/a	n/a	0.271	n/a	U

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Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C33

Sample Depth: 17-19

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V001960			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0996	n/a	n/a	n/a	n/a	0.0996	n/a	U
S10V001960			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0975	n/a	n/a	n/a	n/a	0.0975	n/a	U
S10V001960			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.177	n/a	n/a	n/a	n/a	0.177	n/a	U

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B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C34
Sample Depth: 43-45

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002050		%WATERA	%WATER-APD	%	n/a	n/a	6.450	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002050		57-12-5	Cyanide	ug/g	99.7	<0.0370	<2.60	n/a	n/a	n/a	n/a	2.60	n/a	U
S10V002050		7439-97-6	Mercury	ug/g	96.3	<1.00E-04	<1.00E-02	n/a	n/a	n/a	n/a	0.0100	n/a	U
S10V002050		PH	pH	unitless	n/a	n/a	9.01	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002050		12597-04-5	Sulfide	ug/g	82.8	<0.180	<7.02	n/a	n/a	n/a	n/a	7.02	n/a	U
S10V002054		10198-40-0	Cobalt-60	uCi/g	99.1	<2.73E-07	<2.98E-07	n/a	n/a	n/a	n/a	2.98E-07	n/a	U
S10V002054		14234-35-6	Antimony-125	uCi/g	n/a	<7.34E-07	<8.76E-07	n/a	n/a	n/a	n/a	8.76E-07	n/a	U
S10V002054		10045-97-3	Cesium-137	uCi/g	101	<3.64E-07	<4.08E-07	n/a	n/a	n/a	n/a	4.08E-07	n/a	U
S10V002054		14683-23-9	Europium-152	uCi/g	n/a	<1.35E-06	<1.64E-06	n/a	n/a	n/a	n/a	1.64E-06	n/a	U
S10V002054		15585-10-1	Europium-154	uCi/g	n/a	<8.57E-07	<9.74E-07	n/a	n/a	n/a	n/a	9.74E-07	n/a	U
S10V002054		14391-16-3	Europium-155	uCi/g	n/a	<4.62E-07	<5.52E-07	n/a	n/a	n/a	n/a	5.52E-07	n/a	U
S10V002054		15092-94-1	Lead-212	uCi/g	n/a	n/a	7.73E-07	n/a	n/a	n/a	n/a	4.67E-07	24.38	
S10V002054		14733-03-0	Bismuth-214	uCi/g	n/a	n/a	8.99E-07	n/a	n/a	n/a	n/a	6.35E-07	43.89	
S10V002054		14274-82-9	Thorium-228	uCi/g	n/a	<8.13E-06	<1.02E-05	n/a	n/a	n/a	n/a	1.02E-05	n/a	U
S10V002054		15065-10-8	Thorium-234	uCi/g	n/a	<2.85E-06	<3.56E-06	n/a	n/a	n/a	n/a	3.56E-06	n/a	U
S10V002054		15046-84-1	Iodine-129	uCi/g	111	<1.83E-07	<1.69E-07	n/a	n/a	n/a	n/a	1.69E-07	n/a	U
S10V002055	WV	14133-76-7	Technetium-99	ug/g	110	<4.00E-06	<4.14E-06	n/a	n/a	n/a	n/a	4.14E-06	n/a	U
S10V002056	W	14762-75-5	Carbon-14	uCi/g	91.6	<1.40E-06	<1.31E-06	n/a	n/a	n/a	n/a	1.31E-06	n/a	U
S10V002056	W	10028-17-8	Tritium	uCi/g	92.9	<3.75E-07	<5.15E-05	n/a	n/a	n/a	n/a	5.15E-05	n/a	U
S10V002057	A	7440-36-0	Antimony	ug/g	102	<2.00E-04	0.124	n/a	n/a	n/a	n/a	9.83E-03	n/a	B
S10V002058	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	60.1	<77.4	<77.4	n/a	n/a	n/a	n/a	77.4	n/a	U
S10V002058	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V002058	O	121-14-2	2,4-Dinitrotoluene	ug/kg	77.8	<38.1	<38.1	n/a	n/a	n/a	n/a	38.1	n/a	U
S10V002058	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U
S10V002058	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S10V002058	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.5	n/a	n/a	n/a	n/a	57.5	n/a	U
S10V002058	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.7	n/a	n/a	n/a	n/a	53.7	n/a	U
S10V002058	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.4	n/a	n/a	n/a	n/a	51.4	n/a	U
S10V002058	O	83-32-9	Acenaphthene	ug/kg	68.0	<17.6	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C34
Sample Depth: 43-45

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002058	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S10V002058	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U
S10V002058	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.2	n/a	n/a	n/a	n/a	41.2	n/a	U
S10V002058	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<590	n/a	n/a	n/a	n/a	590	n/a	U
S10V002058	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.1	n/a	n/a	n/a	n/a	39.1	n/a	U
S10V002058	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S10V002058	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.7	<43.2	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S10V002058	O	95-57-8	2-Chlorophenol	ug/kg	68.0	<66.5	<66.5	n/a	n/a	n/a	n/a	66.5	n/a	U
S10V002058	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.4	n/a	n/a	n/a	n/a	81.4	n/a	U
S10V002058	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S10V002058	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<562	n/a	n/a	n/a	n/a	562	n/a	U
S10V002058	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S10V002058	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	63.8	<58.1	<58.1	n/a	n/a	n/a	n/a	58.1	n/a	U
S10V002058	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S10V002058	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.7	n/a	n/a	n/a	n/a	69.7	n/a	U
S10V002058	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<112	n/a	n/a	n/a	n/a	112	n/a	U
S10V002058	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S10V002058	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S10V002058	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.6	n/a	n/a	n/a	n/a	64.6	n/a	U
S10V002058	O	129-00-0	Pyrene	ug/kg	86.3	<62.9	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	U
S10V002058	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<65.0	n/a	n/a	n/a	n/a	65.0	n/a	U
S10V002058	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V002058	O	128-37-0	BHT	ug/kg	n/a	<236	<236	n/a	n/a	n/a	n/a	236	n/a	U
S10V002058	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V002058	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V002058	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<558	n/a	n/a	n/a	n/a	558	n/a	U
S10V002058	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V002058	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<460	n/a	n/a	n/a	n/a	460	n/a	U
S10V002059	W	16984-48-8	Fluoride	ug/g	101	<1.61E-03	0.908	n/a	n/a	n/a	n/a	0.0161	n/a	

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N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C34
Sample Depth: 43-45

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002059	W	GLYCOLAT	Glycolate	ug/g	99.6	<9.37E-03	<0.0935	n/a	n/a	n/a	n/a	0.0935	n/a	U
S10V002059	W	71-50-1	Acetate	ug/g	97.2	<6.04E-03	0.181	n/a	n/a	n/a	n/a	0.0602	n/a	B
S10V002059	W	FORMATE	Formate	ug/g	101	<4.67E-03	0.323	n/a	n/a	n/a	n/a	0.0466	n/a	B
S10V002059	W	16887-00-6	Chloride	ug/g	99.4	0.0107	2.27	n/a	n/a	n/a	n/a	0.0995	n/a	
S10V002059	W	14797-65-0	Nitrite	ug/g	100	<0.0192	0.715	n/a	n/a	n/a	n/a	0.192	n/a	B
S10V002059	W	14808-79-8	Sulfate	ug/g	101	<0.0187	70.7	n/a	n/a	n/a	n/a	0.187	n/a	
S10V002059	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.230	n/a	n/a	n/a	n/a	0.230	n/a	U
S10V002059	W	24959-67-9	Bromide	ug/g	98.4	<0.0580	<0.578	n/a	n/a	n/a	n/a	0.578	n/a	U
S10V002059	W	14797-55-8	Nitrate	ug/g	99.2	<0.0208	9.55	n/a	n/a	n/a	n/a	0.207	n/a	
S10V002059	W	14265-44-2	Phosphate	ug/g	99.0	<0.0167	0.532	n/a	n/a	n/a	n/a	0.167	n/a	B
S10V002060	A	7429-90-5	Aluminum	ug/g	98.0	<0.0300	7.52E+03	n/a	n/a	n/a	n/a	2.97	n/a	
S10V002060	A	7440-39-3	Barium	ug/g	88.6	<3.00E-03	62.4	n/a	n/a	n/a	n/a	0.297	n/a	M
S10V002060	A	7440-41-7	Beryllium	ug/g	89.5	<1.00E-03	0.171	n/a	n/a	n/a	n/a	0.0991	n/a	B
S10V002060	A	7440-70-2	Calcium	ug/g	89.6	0.101	9.94E+03	n/a	n/a	n/a	n/a	4.96	n/a	
S10V002060	A	7440-45-1	Cerium	ug/g	92.7	<0.0300	21.3	n/a	n/a	n/a	n/a	2.97	n/a	BN
S10V002060	A	7440-48-4	Cobalt	ug/g	80.7	<0.0100	7.23	n/a	n/a	n/a	n/a	0.991	n/a	B
S10V002060	A	7440-47-3	Chromium	ug/g	80.7	<5.00E-03	21.5	n/a	n/a	n/a	n/a	0.496	n/a	M
S10V002060	A	7440-50-8	Copper	ug/g	90.0	<5.00E-03	12.3	n/a	n/a	n/a	n/a	0.496	n/a	
S10V002060	A	7439-89-6	Iron	ug/g	83.3	0.0115	1.91E+04	n/a	n/a	n/a	n/a	0.496	n/a	
S10V002060	A	7440-09-7	Potassium	ug/g	94.0	<0.500	985	n/a	n/a	n/a	n/a	49.6	n/a	
S10V002060	A	7439-91-0	Lanthanum	ug/g	90.2	<3.00E-03	9.02	n/a	n/a	n/a	n/a	0.297	n/a	
S10V002060	A	7439-93-2	Lithium	ug/g	88.9	<3.00E-03	8.38	n/a	n/a	n/a	n/a	0.297	n/a	
S10V002060	A	7439-95-4	Magnesium	ug/g	96.8	<0.0500	4.94E+03	n/a	n/a	n/a	n/a	4.96	n/a	
S10V002060	A	7439-96-5	Manganese	ug/g	80.2	<3.00E-03	298	n/a	n/a	n/a	n/a	0.297	n/a	
S10V002060	A	7439-98-7	Molybdenum	ug/g	82.2	<0.0200	<1.98	n/a	n/a	n/a	n/a	1.98	n/a	U
S10V002060	A	7440-23-5	Sodium	ug/g	87.1	<0.100	232	n/a	n/a	n/a	n/a	9.91	n/a	NM
S10V002060	A	7440-02-0	Nickel	ug/g	98.9	<0.0200	18.0	n/a	n/a	n/a	n/a	1.98	n/a	B
S10V002060	A	7723-14-0	Phosphorus	ug/g	81.1	<0.0500	640	n/a	n/a	n/a	n/a	4.96	n/a	
S10V002060	A	7704-34-9	Sulfur	ug/g	81.2	<0.100	81.5	n/a	n/a	n/a	n/a	9.91	n/a	B

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C34
Sample Depth: 43-45

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002060	A	7440-21-3	Silicon	ug/g	94.7	<0.0300	90.2	n/a	n/a	n/a	n/a	2.97	n/a	NM
S10V002060	A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	33.7	n/a	n/a	n/a	n/a	0.297	n/a	NM
S10V002060	A	7440-32-6	Titanium	ug/g	82.5	<5.00E-03	1.11E+03	n/a	n/a	n/a	n/a	0.496	n/a	
S10V002060	A	7440-62-2	Vanadium	ug/g	84.5	<5.00E-03	43.1	n/a	n/a	n/a	n/a	0.496	n/a	
S10V002060	A	7440-65-5	Yttrium	ug/g	82.8	<2.00E-03	7.30	n/a	n/a	n/a	n/a	0.198	n/a	
S10V002060	A	7440-66-6	Zinc	ug/g	81.5	<5.00E-03	35.8	n/a	n/a	n/a	n/a	0.496	n/a	
S10V002060	A	7440-67-7	Zirconium	ug/g	99.0	<5.00E-03	10.9	n/a	n/a	n/a	n/a	0.496	n/a	N
S10V002060	A	14269-63-7	Thorium-230	ug/g	n/a	4.16E-06	<2.80E-05	n/a	n/a	n/a	n/a	2.80E-05	n/a	U
S10V002060	A	TH-232	Thorium-232	ug/g	107	<2.00E-04	2.59	n/a	n/a	n/a	n/a	2.00E-03	n/a	
S10V002060	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.51E-04	n/a	n/a	n/a	n/a	3.96E-05	n/a	
S10V002060	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	7.04E-05	n/a	n/a	n/a	n/a	1.98E-05	n/a	
S10V002060	A	15117-96-1	Uranium-235	ug/g	97.2	<4.00E-06	3.59E-03	n/a	n/a	n/a	n/a	3.96E-05	n/a	
S10V002060	A	13982-70-2	Uranium-236	ug/g	n/a	1.62E-06	2.02E-05	n/a	n/a	n/a	n/a	1.59E-05	n/a	B
S10V002060	A	13994-20-2	Neptunium-237	ug/g	100	<4.00E-05	<3.96E-04	n/a	n/a	n/a	n/a	3.96E-04	n/a	U
S10V002060	A	U-238	Uranium-238	ug/g	106	<2.00E-04	0.502	n/a	n/a	n/a	n/a	1.98E-03	n/a	
S10V002060	A	7440-22-4	Silver	ug/g	119	<4.00E-04	0.0531	n/a	n/a	n/a	n/a	3.96E-03	n/a	
S10V002060	A	7440-38-2	Arsenic	ug/g	106	<8.40E-03	2.85	n/a	n/a	n/a	n/a	0.0833	n/a	
S10V002060	A	7440-43-9	Cadmium	ug/g	107	<1.80E-03	0.0642	n/a	n/a	n/a	n/a	0.0119	n/a	B
S10V002060	A	7439-92-1	Lead	ug/g	99.4	<3.00E-03	3.62	n/a	n/a	n/a	n/a	0.0297	n/a	
S10V002060	A	7782-49-2	Selenium	ug/g	104	<0.0270	0.467	n/a	n/a	n/a	n/a	0.268	n/a	B
S10V002060	A	7440-28-0	Thallium	ug/g	98.8	<4.00E-04	0.0700	n/a	n/a	n/a	n/a	7.93E-03	n/a	B
S10V002061	S	14798-03-9	Ammonium	ug/g	91.0	0.244	7.70	n/a	n/a	n/a	n/a	0.475	n/a	C
S10V002062	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.97E-04	n/a	n/a	n/a	n/a	2.97E-04	n/a	U
S10V002062	A	SN-117	Tin-117	ug/g	108	<1.00E-03	<9.92E-03	n/a	n/a	n/a	n/a	9.92E-03	n/a	UN
S10V002062	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	4.30E-04	n/a	n/a	n/a	n/a	1.98E-04	n/a	BE N
S10V002063	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.10E-07	<1.83E-07	n/a	n/a	n/a	n/a	1.83E-07	n/a	U
S10V002063	E	14596-10-2	Americium-241	uCi/g	93.7	<5.25E-07	<4.58E-07	n/a	n/a	n/a	n/a	4.58E-07	n/a	U
S10V002063	E	15510-73-3	Curium-242	uCi/g	n/a	<2.10E-07	<1.83E-07	n/a	n/a	n/a	n/a	1.83E-07	n/a	U
S10V002063	E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<6.08E-07	<2.89E-07	n/a	n/a	n/a	n/a	2.89E-07	n/a	U

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Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C34

Sample Depth: 43-45

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002063	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-07	<2.89E-07	n/a	n/a	n/a	n/a	2.89E-07	n/a	U
S10V002064	E	SR-89/90	Strontium-89/90	uCi/g	98.8	<1.88E-07	<5.58E-07	n/a	n/a	n/a	n/a	5.58E-07	n/a	U
S10V002065	E	13981-37-8	Nickel-63	uCi/g	105	<5.73E-06	<8.67E-06	n/a	n/a	n/a	n/a	8.67E-06	n/a	U
S10V002065	E	15758-45-9	Selenium-79	uCi/g	n/a	2.39E-06	<2.88E-06	n/a	n/a	n/a	n/a	2.88E-06	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C35
Sample Depth: 43-45

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002044			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0873	n/a	n/a	n/a	n/a	0.0873	n/a	U
S10V002044			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.157	n/a	n/a	n/a	n/a	0.157	n/a	U
S10V002044			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.201	n/a	n/a	n/a	n/a	0.201	n/a	U
S10V002044			75-35-4	1,1-Dichloroethene	ug/kg	95.3	<0.423	<0.402	n/a	n/a	n/a	n/a	0.402	n/a	U
S10V002044			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0510	n/a	n/a	n/a	n/a	0.0510	n/a	U
S10V002044			71-36-3	1-Butanol	ug/kg	118	<10.3	<9.76	n/a	n/a	n/a	n/a	9.76	n/a	U
S10V002044			108-10-1	Hexone	ug/kg	126	<1.71	<1.62	n/a	n/a	n/a	n/a	1.62	n/a	U
S10V002044			67-64-1	Acetone	ug/kg	109	<2.20	<2.09	n/a	n/a	n/a	n/a	2.09	n/a	U
S10V002044			71-43-2	Benzene	ug/kg	103	<0.147	<0.140	n/a	n/a	n/a	n/a	0.140	n/a	U
S10V002044			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S10V002044			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0886	n/a	n/a	n/a	n/a	0.0886	n/a	U
S10V002044			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.124	n/a	n/a	n/a	n/a	0.124	n/a	U
S10V002044			108-90-7	Chlorobenzene	ug/kg	106	<0.0864	<0.0820	n/a	n/a	n/a	n/a	0.0820	n/a	U
S10V002044			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.102	n/a	n/a	n/a	n/a	0.102	n/a	U
S10V002044			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.193	n/a	n/a	n/a	n/a	0.193	n/a	U
S10V002044			78-93-3	2-Butanone	ug/kg	116	<1.96	<1.86	n/a	n/a	n/a	n/a	1.86	n/a	U
S10V002044			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0607	n/a	n/a	n/a	n/a	0.0607	n/a	U
S10V002044			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002044			100-42-5	Styrene	ug/kg	n/a	0.371	0.340	n/a	n/a	n/a	n/a	0.120	n/a	BJ
S10V002044			108-88-3	Toluene	ug/kg	103	0.221	0.374	n/a	n/a	n/a	n/a	0.0761	n/a	BJ
S10V002044			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.257	n/a	n/a	n/a	n/a	0.257	n/a	U
S10V002044			79-01-6	Trichloroethene	ug/kg	102	<0.121	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S10V002044			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U
S10V002044			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.172	n/a	n/a	n/a	n/a	0.172	n/a	U
S10V002044			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.287	n/a	n/a	n/a	n/a	0.287	n/a	U
S10V002044			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.110	n/a	n/a	n/a	n/a	0.110	n/a	U
S10V002044			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.558	n/a	n/a	n/a	n/a	0.558	n/a	U
S10V002044			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.557	n/a	n/a	n/a	n/a	0.557	n/a	U
S10V002044			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.243	n/a	n/a	n/a	n/a	0.243	n/a	U

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B - Estimated
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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C35
Sample Depth: 43-45

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002044			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0892	n/a	n/a	n/a	n/a	0.0892	n/a	U
S10V002044			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0873	n/a	n/a	n/a	n/a	0.0873	n/a	U
S10V002044			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C36
Sample Depth: 92-94

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002072		%WATERA	%WATER-APD	%	n/a	n/a	5.750	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002072		57-12-5	Cyanide	ug/g	99.7	<0.0370	<2.62	n/a	n/a	n/a	n/a	2.62	n/a	U
S10V002072		7439-97-6	Mercury	ug/g	87.7	<1.00E-04	<8.93E-03	n/a	n/a	n/a	n/a	8.93E-03	n/a	U
S10V002072		PH	pH	unitless	n/a	n/a	9.13	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002072		12597-04-5	Sulfide	ug/g	92.5	<0.180	<7.10	<7.06	n/a	n/a	99.9	7.10	n/a	U
S10V002074		13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.70E-05	n/a	n/a	n/a	n/a	6.40E-06	26.11	
S10V002074		10198-40-0	Cobalt-60	uCi/g	99.1	<2.73E-07	<3.36E-07	n/a	n/a	n/a	n/a	3.36E-07	n/a	U
S10V002074		14234-35-6	Antimony-125	uCi/g	n/a	<7.34E-07	<7.83E-07	n/a	n/a	n/a	n/a	7.83E-07	n/a	U
S10V002074		10045-97-3	Cesium-137	uCi/g	101	<3.64E-07	<4.09E-07	n/a	n/a	n/a	n/a	4.09E-07	n/a	U
S10V002074		14683-23-9	Europium-152	uCi/g	n/a	<1.35E-06	<1.53E-06	n/a	n/a	n/a	n/a	1.53E-06	n/a	U
S10V002074		15585-10-1	Europium-154	uCi/g	n/a	<8.57E-07	<1.07E-06	n/a	n/a	n/a	n/a	1.07E-06	n/a	U
S10V002074		14391-16-3	Europium-155	uCi/g	n/a	<4.62E-07	<5.52E-07	n/a	n/a	n/a	n/a	5.52E-07	n/a	U
S10V002074		15092-94-1	Lead-212	uCi/g	n/a	n/a	4.39E-07	n/a	n/a	n/a	n/a	4.40E-07	47.43	U
S10V002074		15067-28-4	Lead-214	uCi/g	n/a	n/a	6.78E-07	n/a	n/a	n/a	n/a	8.00E-07	45.10	U
S10V002074		14274-82-9	Thorium-228	uCi/g	n/a	<8.13E-06	<1.03E-05	n/a	n/a	n/a	n/a	1.03E-05	n/a	U
S10V002074		15065-10-8	Thorium-234	uCi/g	n/a	<2.85E-06	<3.43E-06	n/a	n/a	n/a	n/a	3.43E-06	n/a	U
S10V002074		15046-84-1	Iodine-129	uCi/g	111	<1.83E-07	<1.52E-07	n/a	n/a	n/a	n/a	1.52E-07	n/a	U
S10V002075	WV	14133-76-7	Technetium-99	ug/g	110	<4.00E-06	<4.16E-06	n/a	n/a	n/a	n/a	4.16E-06	n/a	U
S10V002076	W	14762-75-5	Carbon-14	uCi/g	91.6	<1.40E-06	<1.33E-06	n/a	n/a	n/a	n/a	1.33E-06	n/a	U
S10V002076	W	10028-17-8	Tritium	uCi/g	92.9	<3.75E-07	<1.02E-04	n/a	n/a	n/a	n/a	1.02E-04	n/a	U
S10V002077	A	7440-36-0	Antimony	ug/g	102	<2.00E-04	0.189	n/a	n/a	n/a	n/a	9.83E-03	n/a	B
S10V002359	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	77.1	<77.4	<76.3	n/a	n/a	n/a	n/a	76.3	n/a	U
S10V002359	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.3	n/a	n/a	n/a	n/a	99.3	n/a	U
S10V002359	O	121-14-2	2,4-Dinitrotoluene	ug/kg	108	<38.1	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	UT
S10V002359	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.4	n/a	n/a	n/a	n/a	43.4	n/a	U
S10V002359	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U
S10V002359	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.7	n/a	n/a	n/a	n/a	56.7	n/a	U
S10V002359	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.0	n/a	n/a	n/a	n/a	53.0	n/a	U
S10V002359	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C36
Sample Depth: 92-94

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002359	O	83-32-9	Acenaphthene	ug/kg	92.7	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S10V002359	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S10V002359	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.2	n/a	n/a	n/a	n/a	48.2	n/a	U
S10V002359	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.6	n/a	n/a	n/a	n/a	40.6	n/a	U
S10V002359	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	1.01E+03	n/a	n/a	n/a	n/a	582	n/a	J
S10V002359	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.6	n/a	n/a	n/a	n/a	38.6	n/a	U
S10V002359	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S10V002359	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	85.6	<43.2	<42.6	n/a	n/a	n/a	n/a	42.6	n/a	U
S10V002359	O	95-57-8	2-Chlorophenol	ug/kg	82.5	<66.5	<65.6	n/a	n/a	n/a	n/a	65.6	n/a	U
S10V002359	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.3	n/a	n/a	n/a	n/a	80.3	n/a	U
S10V002359	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S10V002359	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<555	n/a	n/a	n/a	n/a	555	n/a	U
S10V002359	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.0	n/a	n/a	n/a	n/a	47.0	n/a	U
S10V002359	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	75.1	<58.1	<57.3	n/a	n/a	n/a	n/a	57.3	n/a	U
S10V002359	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.9	n/a	n/a	n/a	n/a	34.9	n/a	U
S10V002359	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.7	n/a	n/a	n/a	n/a	68.7	n/a	U
S10V002359	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S10V002359	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.3	n/a	n/a	n/a	n/a	50.3	n/a	U
S10V002359	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.7	n/a	n/a	n/a	n/a	61.7	n/a	U
S10V002359	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.7	n/a	n/a	n/a	n/a	63.7	n/a	U
S10V002359	O	129-00-0	Pyrene	ug/kg	105	<62.9	<62.0	n/a	n/a	n/a	n/a	62.0	n/a	U
S10V002359	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.1	n/a	n/a	n/a	n/a	64.1	n/a	U
S10V002359	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V002359	O	128-37-0	BHT	ug/kg	n/a	<236	<232	n/a	n/a	n/a	n/a	232	n/a	U
S10V002359	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S10V002359	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V002359	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<550	n/a	n/a	n/a	n/a	550	n/a	U
S10V002359	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S10V002359	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<454	n/a	n/a	n/a	n/a	454	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C36
Sample Depth: 92-94

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002363	W	16984-48-8	Fluoride	ug/g	101	<1.61E-03	0.733	n/a	n/a	n/a	n/a	0.0161	n/a	
S10V002363	W	GLYCOLAT	Glycolate	ug/g	99.6	<9.37E-03	<0.0937	n/a	n/a	n/a	n/a	0.0937	n/a	U
S10V002363	W	71-50-1	Acetate	ug/g	97.2	<6.04E-03	0.252	n/a	n/a	n/a	n/a	0.0604	n/a	B
S10V002363	W	FORMATE	Formate	ug/g	101	<4.67E-03	0.319	n/a	n/a	n/a	n/a	0.0467	n/a	B
S10V002363	W	16887-00-6	Chloride	ug/g	99.4	0.0107	2.08	n/a	n/a	n/a	n/a	0.0998	n/a	
S10V002363	W	14797-65-0	Nitrite	ug/g	100	<0.0192	0.712	n/a	n/a	n/a	n/a	0.192	n/a	B
S10V002363	W	14808-79-8	Sulfate	ug/g	101	<0.0187	64.9	n/a	n/a	n/a	n/a	0.187	n/a	
S10V002363	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.231	n/a	n/a	n/a	n/a	0.231	n/a	U
S10V002363	W	24959-67-9	Bromide	ug/g	98.4	<0.0580	<0.580	n/a	n/a	n/a	n/a	0.580	n/a	U
S10V002363	W	14797-55-8	Nitrate	ug/g	99.2	<0.0208	6.02	n/a	n/a	n/a	n/a	0.208	n/a	
S10V002363	W	14265-44-2	Phosphate	ug/g	99.0	<0.0167	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S10V002365	A	7429-90-5	Aluminum	ug/g	98.0	<0.0300	7.90E+03	n/a	n/a	n/a	n/a	2.97	n/a	
S10V002365	A	7440-39-3	Barium	ug/g	88.6	<3.00E-03	87.2	n/a	n/a	n/a	n/a	0.297	n/a	M
S10V002365	A	7440-41-7	Beryllium	ug/g	89.5	<1.00E-03	0.215	n/a	n/a	n/a	n/a	0.0991	n/a	B
S10V002365	A	7440-70-2	Calcium	ug/g	89.6	0.101	8.41E+03	n/a	n/a	n/a	n/a	4.95	n/a	
S10V002365	A	7440-45-1	Cerium	ug/g	92.7	<0.0300	22.0	n/a	n/a	n/a	n/a	2.97	n/a	BN
S10V002365	A	7440-48-4	Cobalt	ug/g	80.7	<0.0100	6.65	n/a	n/a	n/a	n/a	0.991	n/a	B
S10V002365	A	7440-47-3	Chromium	ug/g	80.7	<5.00E-03	28.7	n/a	n/a	n/a	n/a	0.495	n/a	M
S10V002365	A	7440-50-8	Copper	ug/g	90.0	<5.00E-03	10.0	n/a	n/a	n/a	n/a	0.495	n/a	
S10V002365	A	7439-89-6	Iron	ug/g	83.3	0.0115	1.78E+04	n/a	n/a	n/a	n/a	0.495	n/a	
S10V002365	A	7440-09-7	Potassium	ug/g	94.0	<0.500	1.38E+03	n/a	n/a	n/a	n/a	49.5	n/a	
S10V002365	A	7439-91-0	Lanthanum	ug/g	90.2	<3.00E-03	10.1	n/a	n/a	n/a	n/a	0.297	n/a	
S10V002365	A	7439-93-2	Lithium	ug/g	88.9	<3.00E-03	10.5	n/a	n/a	n/a	n/a	0.297	n/a	
S10V002365	A	7439-95-4	Magnesium	ug/g	96.8	<0.0500	5.33E+03	n/a	n/a	n/a	n/a	4.95	n/a	
S10V002365	A	7439-96-5	Manganese	ug/g	80.2	<3.00E-03	332	n/a	n/a	n/a	n/a	0.297	n/a	
S10V002365	A	7439-98-7	Molybdenum	ug/g	82.2	<0.0200	<1.98	n/a	n/a	n/a	n/a	1.98	n/a	U
S10V002365	A	7440-23-5	Sodium	ug/g	87.1	<0.100	165	n/a	n/a	n/a	n/a	9.91	n/a	NM
S10V002365	A	7440-02-0	Nickel	ug/g	98.9	<0.0200	18.2	n/a	n/a	n/a	n/a	1.98	n/a	B
S10V002365	A	7723-14-0	Phosphorus	ug/g	81.1	<0.0500	480	n/a	n/a	n/a	n/a	4.95	n/a	

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C36
Sample Depth: 92-94

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002365	A	7704-34-9	Sulfur	ug/g	81.2	<0.100	62.1	n/a	n/a	n/a	n/a	9.91	n/a	B
S10V002365	A	7440-21-3	Silicon	ug/g	94.7	<0.0300	84.8	n/a	n/a	n/a	n/a	2.97	n/a	NM
S10V002365	A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	37.7	n/a	n/a	n/a	n/a	0.297	n/a	NM
S10V002365	A	7440-32-6	Titanium	ug/g	82.5	<5.00E-03	907	n/a	n/a	n/a	n/a	0.495	n/a	
S10V002365	A	7440-62-2	Vanadium	ug/g	84.5	<5.00E-03	35.6	n/a	n/a	n/a	n/a	0.495	n/a	
S10V002365	A	7440-65-5	Yttrium	ug/g	82.8	<2.00E-03	6.40	n/a	n/a	n/a	n/a	0.198	n/a	
S10V002365	A	7440-66-6	Zinc	ug/g	81.5	<5.00E-03	38.6	n/a	n/a	n/a	n/a	0.495	n/a	
S10V002365	A	7440-67-7	Zirconium	ug/g	99.0	<5.00E-03	7.28	n/a	n/a	n/a	n/a	0.495	n/a	N
S10V002365	A	14269-63-7	Thorium-230	ug/g	n/a	4.16E-06	<2.78E-05	n/a	n/a	n/a	n/a	2.78E-05	n/a	U
S10V002365	A	TH-232	Thorium-232	ug/g	107	<2.00E-04	3.78	n/a	n/a	n/a	n/a	1.98E-03	n/a	
S10V002365	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.06E-04	n/a	n/a	n/a	n/a	3.96E-05	n/a	
S10V002365	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	2.81E-05	n/a	n/a	n/a	n/a	1.97E-05	n/a	
S10V002365	A	15117-96-1	Uranium-235	ug/g	97.2	<4.00E-06	3.43E-03	n/a	n/a	n/a	n/a	3.95E-05	n/a	
S10V002365	A	13982-70-2	Uranium-236	ug/g	n/a	1.62E-06	<1.58E-05	n/a	n/a	n/a	n/a	1.58E-05	n/a	U
S10V002365	A	13994-20-2	Neptunium-237	ug/g	100	<4.00E-05	<3.95E-04	n/a	n/a	n/a	n/a	3.95E-04	n/a	U
S10V002365	A	U-238	Uranium-238	ug/g	106	<2.00E-04	0.508	n/a	n/a	n/a	n/a	1.97E-03	n/a	
S10V002365	A	7440-22-4	Silver	ug/g	119	<4.00E-04	0.0461	n/a	n/a	n/a	n/a	3.96E-03	n/a	
S10V002365	A	7440-38-2	Arsenic	ug/g	106	<8.40E-03	4.52	n/a	n/a	n/a	n/a	0.0832	n/a	
S10V002365	A	7440-43-9	Cadmium	ug/g	107	<1.80E-03	0.0582	n/a	n/a	n/a	n/a	0.0119	n/a	B
S10V002365	A	7439-92-1	Lead	ug/g	99.4	<3.00E-03	3.74	n/a	n/a	n/a	n/a	0.0297	n/a	
S10V002365	A	7782-49-2	Selenium	ug/g	104	<0.0270	0.345	n/a	n/a	n/a	n/a	0.268	n/a	B
S10V002365	A	7440-28-0	Thallium	ug/g	98.8	<4.00E-04	0.0622	n/a	n/a	n/a	n/a	7.93E-03	n/a	B
S10V002368	S	14798-03-9	Ammonium	ug/g	91.0	0.244	2.67	n/a	n/a	n/a	n/a	0.479	n/a	CB
S10V002370	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.99E-04	n/a	n/a	n/a	n/a	2.99E-04	n/a	U
S10V002370	A	SN-117	Tin-117	ug/g	108	<1.00E-03	<9.96E-03	n/a	n/a	n/a	n/a	9.96E-03	n/a	UN
S10V002370	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	4.22E-04	n/a	n/a	n/a	n/a	1.99E-04	n/a	BE N
S10V002373	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.10E-07	<2.18E-07	n/a	n/a	n/a	n/a	2.18E-07	n/a	U
S10V002373	E	14596-10-2	Americium-241	uCi/g	93.7	<5.25E-07	<5.45E-07	n/a	n/a	n/a	n/a	5.45E-07	n/a	U
S10V002373	E	15510-73-3	Curium-242	uCi/g	n/a	<2.10E-07	<2.18E-07	n/a	n/a	n/a	n/a	2.18E-07	n/a	U

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Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C36

Sample Depth: 92-94

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002373	E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<6.08E-07	<3.37E-07	n/a	n/a	n/a	n/a	3.37E-07	n/a	U
S10V002373	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-07	<3.37E-07	n/a	n/a	n/a	n/a	3.37E-07	n/a	U
S10V002376	E	SR-89/90	Strontium-89/90	uCi/g	98.8	<1.88E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U
S10V002378	E	13981-37-8	Nickel-63	uCi/g	105	<5.73E-06	<5.97E-06	n/a	n/a	n/a	n/a	5.97E-06	n/a	U
S10V002378	E	15758-45-9	Selenium-79	uCi/g	n/a	2.39E-06	<2.52E-06	n/a	n/a	n/a	n/a	2.52E-06	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C37
Sample Depth: 92-94

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002066			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0996	n/a	n/a	n/a	n/a	0.0996	n/a	U
S10V002066			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S10V002066			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.229	n/a	n/a	n/a	n/a	0.229	n/a	U
S10V002066			75-35-4	1,1-Dichloroethene	ug/kg	95.3	<0.423	<0.458	n/a	n/a	n/a	n/a	0.458	n/a	U
S10V002066			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0582	n/a	n/a	n/a	n/a	0.0582	n/a	U
S10V002066			71-36-3	1-Butanol	ug/kg	118	<10.3	<11.1	n/a	n/a	n/a	n/a	11.1	n/a	U
S10V002066			108-10-1	Hexone	ug/kg	126	<1.71	<1.85	n/a	n/a	n/a	n/a	1.85	n/a	U
S10V002066			67-64-1	Acetone	ug/kg	109	<2.20	<2.38	n/a	n/a	n/a	n/a	2.38	n/a	U
S10V002066			71-43-2	Benzene	ug/kg	103	<0.147	<0.160	n/a	n/a	n/a	n/a	0.160	n/a	U
S10V002066			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.174	n/a	n/a	n/a	n/a	0.174	n/a	U
S10V002066			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.101	n/a	n/a	n/a	n/a	0.101	n/a	U
S10V002066			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.142	n/a	n/a	n/a	n/a	0.142	n/a	U
S10V002066			108-90-7	Chlorobenzene	ug/kg	106	<0.0864	<0.0935	n/a	n/a	n/a	n/a	0.0935	n/a	U
S10V002066			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.116	n/a	n/a	n/a	n/a	0.116	n/a	U
S10V002066			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.220	n/a	n/a	n/a	n/a	0.220	n/a	U
S10V002066			78-93-3	2-Butanone	ug/kg	116	<1.96	<2.13	n/a	n/a	n/a	n/a	2.13	n/a	U
S10V002066			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0693	n/a	n/a	n/a	n/a	0.0693	n/a	U
S10V002066			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U
S10V002066			108-88-3	Toluene	ug/kg	103	0.221	0.427	n/a	n/a	n/a	n/a	0.0868	n/a	BJ
S10V002066			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.293	n/a	n/a	n/a	n/a	0.293	n/a	U
S10V002066			79-01-6	Trichloroethene	ug/kg	102	<0.121	<0.131	n/a	n/a	n/a	n/a	0.131	n/a	U
S10V002066			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S10V002066			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.197	n/a	n/a	n/a	n/a	0.197	n/a	U
S10V002066			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.328	n/a	n/a	n/a	n/a	0.328	n/a	U
S10V002066			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.126	n/a	n/a	n/a	n/a	0.126	n/a	U
S10V002066			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.636	n/a	n/a	n/a	n/a	0.636	n/a	U
S10V002066			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.636	n/a	n/a	n/a	n/a	0.636	n/a	U
S10V002066			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.277	n/a	n/a	n/a	n/a	0.277	n/a	U
S10V002066			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.102	n/a	n/a	n/a	n/a	0.102	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C37
Sample Depth: 92-94

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002066			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0996	n/a	n/a	n/a	n/a	0.0996	n/a	U
S10V002066			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.181	n/a	n/a	n/a	n/a	0.181	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C38
Sample Depth: 116-118

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002505		%WATERA	%WATER-APD	%	n/a	n/a	3.190	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002505		57-12-5	Cyanide	ug/g	89.7	<0.0370	<2.66	n/a	n/a	n/a	n/a	2.66	n/a	U
S10V002505		7439-97-6	Mercury	ug/g	87.7	<1.00E-04	<9.26E-03	n/a	n/a	n/a	n/a	9.26E-03	n/a	U
S10V002505		PH	pH	unitless	n/a	n/a	9.29	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002505		12597-04-5	Sulfide	ug/g	92.5	<0.180	8.75	n/a	n/a	n/a	n/a	7.16	n/a	B
S10V002507		13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.40E-05	n/a	n/a	n/a	n/a	5.83E-06	28.54	
S10V002507		10198-40-0	Cobalt-60	uCi/g	99.1	<2.73E-07	<3.13E-07	n/a	n/a	n/a	n/a	3.13E-07	n/a	U
S10V002507		14234-35-6	Antimony-125	uCi/g	n/a	<7.34E-07	<7.89E-07	n/a	n/a	n/a	n/a	7.89E-07	n/a	U
S10V002507		10045-97-3	Cesium-137	uCi/g	101	<3.64E-07	<3.67E-07	n/a	n/a	n/a	n/a	3.67E-07	n/a	U
S10V002507		14683-23-9	Europium-152	uCi/g	n/a	<1.35E-06	<1.51E-06	n/a	n/a	n/a	n/a	1.51E-06	n/a	U
S10V002507		15585-10-1	Europium-154	uCi/g	n/a	<8.57E-07	<9.72E-07	n/a	n/a	n/a	n/a	9.72E-07	n/a	U
S10V002507		14391-16-3	Europium-155	uCi/g	n/a	<4.62E-07	<4.80E-07	n/a	n/a	n/a	n/a	4.80E-07	n/a	U
S10V002507		15092-94-1	Lead-212	uCi/g	n/a	n/a	6.69E-07	n/a	n/a	n/a	n/a	4.52E-07	31.92	
S10V002507		15067-28-4	Lead-214	uCi/g	n/a	n/a	6.44E-07	n/a	n/a	n/a	n/a	7.48E-07	45.90	U
S10V002507		14274-82-9	Thorium-228	uCi/g	n/a	<8.13E-06	<9.24E-06	n/a	n/a	n/a	n/a	9.24E-06	n/a	U
S10V002507		15065-10-8	Thorium-234	uCi/g	n/a	<2.85E-06	<3.16E-06	n/a	n/a	n/a	n/a	3.16E-06	n/a	U
S10V002507		15046-84-1	Iodine-129	uCi/g	113	<1.93E-07	<1.53E-07	n/a	n/a	n/a	n/a	1.53E-07	n/a	U
S10V002508	WV	14133-76-7	Technetium-99	ug/g	110	<4.00E-06	<3.86E-06	n/a	n/a	n/a	n/a	3.86E-06	n/a	U
S10V002509	W	14762-75-5	Carbon-14	uCi/g	91.6	<1.40E-06	<1.33E-06	n/a	n/a	n/a	n/a	1.33E-06	n/a	U
S10V002509	W	10028-17-8	Tritium	uCi/g	92.9	<3.75E-07	8.92E-05	n/a	n/a	n/a	n/a	5.18E-05	88.485	
S10V002510	A	7440-36-0	Antimony	ug/g	102	<2.00E-04	0.157	n/a	n/a	n/a	n/a	9.72E-03	n/a	B
S10V002511	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	77.1	<77.4	<76.4	n/a	n/a	n/a	n/a	76.4	n/a	U
S10V002511	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.4	n/a	n/a	n/a	n/a	99.4	n/a	U
S10V002511	O	121-14-2	2,4-Dinitrotoluene	ug/kg	108	<38.1	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	UT
S10V002511	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.4	n/a	n/a	n/a	n/a	43.4	n/a	U
S10V002511	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U
S10V002511	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.8	n/a	n/a	n/a	n/a	56.8	n/a	U
S10V002511	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.0	n/a	n/a	n/a	n/a	53.0	n/a	U
S10V002511	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C38
Sample Depth: 116-118

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002511	O	83-32-9	Acenaphthene	ug/kg	92.7	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S10V002511	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S10V002511	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U
S10V002511	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.7	n/a	n/a	n/a	n/a	40.7	n/a	U
S10V002511	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	5.62E+03	n/a	n/a	n/a	n/a	583	n/a	J
S10V002511	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.6	n/a	n/a	n/a	n/a	38.6	n/a	U
S10V002511	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V002511	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	85.6	<43.2	<42.7	n/a	n/a	n/a	n/a	42.7	n/a	U
S10V002511	O	95-57-8	2-Chlorophenol	ug/kg	82.5	<66.5	<65.7	n/a	n/a	n/a	n/a	65.7	n/a	U
S10V002511	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.4	n/a	n/a	n/a	n/a	80.4	n/a	U
S10V002511	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S10V002511	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<555	n/a	n/a	n/a	n/a	555	n/a	U
S10V002511	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.1	n/a	n/a	n/a	n/a	47.1	n/a	U
S10V002511	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	75.1	<58.1	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S10V002511	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.0	n/a	n/a	n/a	n/a	35.0	n/a	U
S10V002511	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.8	n/a	n/a	n/a	n/a	68.8	n/a	U
S10V002511	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S10V002511	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S10V002511	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.8	n/a	n/a	n/a	n/a	61.8	n/a	U
S10V002511	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.8	n/a	n/a	n/a	n/a	63.8	n/a	U
S10V002511	O	129-00-0	Pyrene	ug/kg	105	<62.9	<62.1	n/a	n/a	n/a	n/a	62.1	n/a	U
S10V002511	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.2	n/a	n/a	n/a	n/a	64.2	n/a	U
S10V002511	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V002511	O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S10V002511	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S10V002511	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V002511	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<551	n/a	n/a	n/a	n/a	551	n/a	U
S10V002511	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S10V002511	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<454	n/a	n/a	n/a	n/a	454	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C38
Sample Depth: 116-118

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002512		W	16984-48-8	Fluoride	ug/g	101	<1.61E-03	0.648	n/a	n/a	n/a	n/a	0.0161	n/a	
S10V002512		W	GLYCOLAT	Glycolate	ug/g	99.6	<9.37E-03	<0.0937	n/a	n/a	n/a	n/a	0.0937	n/a	U
S10V002512		W	71-50-1	Acetate	ug/g	97.2	<6.04E-03	0.196	n/a	n/a	n/a	n/a	0.0604	n/a	B
S10V002512		W	FORMATE	Formate	ug/g	101	<4.67E-03	0.144	n/a	n/a	n/a	n/a	0.0467	n/a	B
S10V002512		W	16887-00-6	Chloride	ug/g	99.4	0.0107	2.09	n/a	n/a	n/a	n/a	0.0998	n/a	
S10V002512		W	14797-65-0	Nitrite	ug/g	100	<0.0192	0.437	n/a	n/a	n/a	n/a	0.192	n/a	B
S10V002512		W	14808-79-8	Sulfate	ug/g	101	<0.0187	42.3	n/a	n/a	n/a	n/a	0.187	n/a	
S10V002512		W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.231	n/a	n/a	n/a	n/a	0.231	n/a	U
S10V002512		W	24959-67-9	Bromide	ug/g	98.4	<0.0580	<0.580	n/a	n/a	n/a	n/a	0.580	n/a	U
S10V002512		W	14797-55-8	Nitrate	ug/g	99.2	<0.0208	5.90	n/a	n/a	n/a	n/a	0.208	n/a	
S10V002512		W	14265-44-2	Phosphate	ug/g	99.0	<0.0167	0.344	n/a	n/a	n/a	n/a	0.167	n/a	B
S10V002513		A	7429-90-5	Aluminum	ug/g	98.0	<0.0300	6.18E+03	n/a	n/a	n/a	n/a	2.96	n/a	
S10V002513		A	7440-39-3	Barium	ug/g	88.6	<3.00E-03	58.6	n/a	n/a	n/a	n/a	0.296	n/a	N
S10V002513		A	7440-41-7	Beryllium	ug/g	89.5	<1.00E-03	0.176	n/a	n/a	n/a	n/a	0.0986	n/a	B
S10V002513		A	7440-70-2	Calcium	ug/g	89.6	0.101	7.67E+03	n/a	n/a	n/a	n/a	4.93	n/a	
S10V002513		A	7440-45-1	Cerium	ug/g	92.7	<0.0300	19.1	n/a	n/a	n/a	n/a	2.96	n/a	BN
S10V002513		A	7440-48-4	Cobalt	ug/g	80.7	<0.0100	5.74	n/a	n/a	n/a	n/a	0.986	n/a	B
S10V002513		A	7440-47-3	Chromium	ug/g	80.7	<5.00E-03	17.3	n/a	n/a	n/a	n/a	0.493	n/a	M
S10V002513		A	7440-50-8	Copper	ug/g	90.0	<5.00E-03	9.04	n/a	n/a	n/a	n/a	0.493	n/a	
S10V002513		A	7439-89-6	Iron	ug/g	83.3	0.0115	1.60E+04	n/a	n/a	n/a	n/a	0.493	n/a	
S10V002513		A	7440-09-7	Potassium	ug/g	94.0	<0.500	923	n/a	n/a	n/a	n/a	49.3	n/a	
S10V002513		A	7439-91-0	Lanthanum	ug/g	90.2	<3.00E-03	8.53	n/a	n/a	n/a	n/a	0.296	n/a	
S10V002513		A	7439-93-2	Lithium	ug/g	88.9	<3.00E-03	8.66	n/a	n/a	n/a	n/a	0.296	n/a	
S10V002513		A	7439-95-4	Magnesium	ug/g	96.8	<0.0500	4.70E+03	n/a	n/a	n/a	n/a	4.93	n/a	
S10V002513		A	7439-96-5	Manganese	ug/g	80.2	<3.00E-03	267	n/a	n/a	n/a	n/a	0.296	n/a	
S10V002513		A	7439-98-7	Molybdenum	ug/g	82.2	<0.0200	<1.97	n/a	n/a	n/a	n/a	1.97	n/a	U
S10V002513		A	7440-23-5	Sodium	ug/g	87.1	<0.100	140	n/a	n/a	n/a	n/a	9.86	n/a	NM
S10V002513		A	7440-02-0	Nickel	ug/g	98.9	<0.0200	14.7	n/a	n/a	n/a	n/a	1.97	n/a	B
S10V002513		A	7723-14-0	Phosphorus	ug/g	81.1	<0.0500	483	n/a	n/a	n/a	n/a	4.93	n/a	

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N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C38
Sample Depth: 116-118

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002513	A	7704-34-9	Sulfur	ug/g	81.2	<0.100	62.8	n/a	n/a	n/a	n/a	9.86	n/a	B
S10V002513	A	7440-21-3	Silicon	ug/g	94.7	<0.0300	72.8	n/a	n/a	n/a	n/a	2.96	n/a	NM
S10V002513	A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	29.4	n/a	n/a	n/a	n/a	0.296	n/a	NM
S10V002513	A	7440-32-6	Titanium	ug/g	82.5	<5.00E-03	795	n/a	n/a	n/a	n/a	0.493	n/a	
S10V002513	A	7440-62-2	Vanadium	ug/g	84.5	<5.00E-03	31.0	n/a	n/a	n/a	n/a	0.493	n/a	
S10V002513	A	7440-65-5	Yttrium	ug/g	82.8	<2.00E-03	5.53	n/a	n/a	n/a	n/a	0.197	n/a	
S10V002513	A	7440-66-6	Zinc	ug/g	81.5	<5.00E-03	32.0	n/a	n/a	n/a	n/a	0.493	n/a	
S10V002513	A	7440-67-7	Zirconium	ug/g	99.0	<5.00E-03	6.47	n/a	n/a	n/a	n/a	0.493	n/a	N
S10V002513	A	14269-63-7	Thorium-230	ug/g	n/a	4.16E-06	<2.78E-05	n/a	n/a	n/a	n/a	2.78E-05	n/a	U
S10V002513	A	TH-232	Thorium-232	ug/g	107	<2.00E-04	4.18	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002513	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.74E-04	n/a	n/a	n/a	n/a	3.94E-05	n/a	
S10V002513	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	4.23E-05	n/a	n/a	n/a	n/a	1.97E-05	n/a	
S10V002513	A	15117-96-1	Uranium-235	ug/g	97.2	<4.00E-06	3.12E-03	n/a	n/a	n/a	n/a	3.94E-05	n/a	
S10V002513	A	13982-70-2	Uranium-236	ug/g	n/a	1.62E-06	<1.58E-05	n/a	n/a	n/a	n/a	1.58E-05	n/a	U
S10V002513	A	13994-20-2	Neptunium-237	ug/g	100	<4.00E-05	<3.94E-04	n/a	n/a	n/a	n/a	3.94E-04	n/a	U
S10V002513	A	U-238	Uranium-238	ug/g	106	<2.00E-04	0.414	n/a	n/a	n/a	n/a	1.97E-03	n/a	
S10V002513	A	7440-22-4	Silver	ug/g	119	<4.00E-04	0.0443	n/a	n/a	n/a	n/a	3.94E-03	n/a	
S10V002513	A	7440-38-2	Arsenic	ug/g	106	<8.40E-03	3.47	n/a	n/a	n/a	n/a	0.0828	n/a	
S10V002513	A	7440-43-9	Cadmium	ug/g	107	<1.80E-03	0.0631	n/a	n/a	n/a	n/a	0.0118	n/a	B
S10V002513	A	7439-92-1	Lead	ug/g	99.4	<3.00E-03	3.79	n/a	n/a	n/a	n/a	0.0296	n/a	
S10V002513	A	7782-49-2	Selenium	ug/g	104	<0.0270	0.469	n/a	n/a	n/a	n/a	0.266	n/a	B
S10V002513	A	7440-28-0	Thallium	ug/g	98.8	<4.00E-04	0.0541	n/a	n/a	n/a	n/a	7.89E-03	n/a	B
S10V002514	S	14798-03-9	Ammonium	ug/g	91.0	0.244	2.10	n/a	n/a	n/a	n/a	0.478	n/a	CB
S10V002515	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.99E-04	n/a	n/a	n/a	n/a	2.99E-04	n/a	U
S10V002515	A	SN-117	Tin-117	ug/g	108	<1.00E-03	<9.95E-03	n/a	n/a	n/a	n/a	9.95E-03	n/a	UN
S10V002515	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	3.38E-04	n/a	n/a	n/a	n/a	1.99E-04	n/a	BE N
S10V002516	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.10E-07	<1.66E-07	n/a	n/a	n/a	n/a	1.66E-07	n/a	U
S10V002516	E	14596-10-2	Americium-241	uCi/g	93.7	<5.25E-07	<4.16E-07	n/a	n/a	n/a	n/a	4.16E-07	n/a	U
S10V002516	E	15510-73-3	Curium-242	uCi/g	n/a	<2.10E-07	<1.66E-07	n/a	n/a	n/a	n/a	1.66E-07	n/a	U

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Data Summary Report

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C38

Sample Depth: 116-118

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002516		E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<6.08E-07	<2.92E-07	n/a	n/a	n/a	n/a	2.92E-07	n/a	U
S10V002516		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-07	<2.92E-07	n/a	n/a	n/a	n/a	2.92E-07	n/a	U
S10V002517		E	SR-89/90	Strontium-89/90	uCi/g	98.8	<1.88E-07	<2.73E-07	n/a	n/a	n/a	n/a	2.73E-07	n/a	U
S10V002518		E	13981-37-8	Nickel-63	uCi/g	105	<5.73E-06	<5.76E-06	n/a	n/a	n/a	n/a	5.76E-06	n/a	U
S10V002518		E	15758-45-9	Selenium-79	uCi/g	n/a	2.39E-06	2.22E-06	n/a	n/a	n/a	n/a	1.79E-06	1166.649	B

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C39
Sample Depth: 116-118

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002499			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0915	n/a	n/a	n/a	n/a	0.0915	n/a	U
S10V002499			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
S10V002499			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
S10V002499			75-35-4	1,1-Dichloroethene	ug/kg	92.0	<0.423	<0.421	n/a	n/a	n/a	96.9	0.421	n/a	U
S10V002499			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0535	n/a	n/a	n/a	n/a	0.0535	n/a	U
S10V002499			71-36-3	1-Butanol	ug/kg	116	<10.3	<10.2	n/a	n/a	n/a	108	10.2	n/a	U
S10V002499			108-10-1	Hexone	ug/kg	124	<1.71	<1.70	n/a	n/a	n/a	132	1.70	n/a	U
S10V002499			67-64-1	Acetone	ug/kg	108	<2.20	<2.19	n/a	n/a	n/a	123	2.19	n/a	U
S10V002499			71-43-2	Benzene	ug/kg	98.2	<0.147	<0.147	n/a	n/a	n/a	97.7	0.147	n/a	U
S10V002499			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
S10V002499			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0928	n/a	n/a	n/a	n/a	0.0928	n/a	U
S10V002499			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
S10V002499			108-90-7	Chlorobenzene	ug/kg	103	<0.0864	<0.0859	n/a	n/a	n/a	98.6	0.0859	n/a	U
S10V002499			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
S10V002499			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
S10V002499			78-93-3	2-Butanone	ug/kg	113	<1.96	<1.95	n/a	n/a	n/a	123	1.95	n/a	U
S10V002499			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0636	n/a	n/a	n/a	n/a	0.0636	n/a	U
S10V002499			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
S10V002499			100-42-5	Styrene	ug/kg	n/a	0.344	0.302	n/a	n/a	n/a	n/a	0.126	n/a	BJ
S10V002499			108-88-3	Toluene	ug/kg	101	<0.0802	0.268	n/a	n/a	n/a	96.4	0.0797	n/a	J
S10V002499			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
S10V002499			79-01-6	Trichloroethene	ug/kg	98.5	<0.121	<0.120	n/a	n/a	n/a	96.1	0.120	n/a	U
S10V002499			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
S10V002499			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
S10V002499			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
S10V002499			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
S10V002499			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.584	n/a	n/a	n/a	n/a	0.584	n/a	U
S10V002499			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.584	n/a	n/a	n/a	n/a	0.584	n/a	U
S10V002499			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

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C39
Sample Depth: 116-118

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002499			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0934	n/a	n/a	n/a	n/a	0.0934	n/a	U
S10V002499			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0915	n/a	n/a	n/a	n/a	0.0915	n/a	U
S10V002499			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

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C40
Sample Depth: 142-144

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002800		%WATERA	%WATER-APD	%	n/a	n/a	4.690	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002800		57-12-5	Cyanide	ug/g	89.7	<0.0370	<2.65	n/a	n/a	n/a	n/a	2.65	n/a	U
S10V002800		7439-97-6	Mercury	ug/g	87.7	<1.00E-04	<8.90E-03	n/a	n/a	n/a	n/a	8.90E-03	n/a	U
S10V002800		PH	pH	unitless	n/a	n/a	9.38	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002800		12597-04-5	Sulfide	ug/g	92.5	<0.180	8.87	n/a	n/a	n/a	n/a	6.94	n/a	B
S10V002801		13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.25E-05	n/a	n/a	n/a	n/a	5.55E-06	30.18	
S10V002801		10198-40-0	Cobalt-60	uCi/g	99.1	<2.73E-07	<3.04E-07	n/a	n/a	n/a	n/a	3.04E-07	n/a	U
S10V002801		14234-35-6	Antimony-125	uCi/g	n/a	<7.34E-07	<7.12E-07	n/a	n/a	n/a	n/a	7.12E-07	n/a	U
S10V002801		10045-97-3	Cesium-137	uCi/g	101	<3.64E-07	<3.52E-07	n/a	n/a	n/a	n/a	3.52E-07	n/a	U
S10V002801		14683-23-9	Europium-152	uCi/g	n/a	<1.35E-06	<1.32E-06	n/a	n/a	n/a	n/a	1.32E-06	n/a	U
S10V002801		15585-10-1	Europium-154	uCi/g	n/a	<8.57E-07	<8.84E-07	n/a	n/a	n/a	n/a	8.84E-07	n/a	U
S10V002801		14391-16-3	Europium-155	uCi/g	n/a	<4.62E-07	<4.77E-07	n/a	n/a	n/a	n/a	4.77E-07	n/a	U
S10V002801		15092-94-1	Lead-212	uCi/g	n/a	n/a	6.49E-07	n/a	n/a	n/a	n/a	4.72E-07	31.93	
S10V002801		14274-82-9	Thorium-228	uCi/g	n/a	<8.13E-06	<8.93E-06	n/a	n/a	n/a	n/a	8.93E-06	n/a	U
S10V002801		15065-10-8	Thorium-234	uCi/g	n/a	<2.85E-06	<3.05E-06	n/a	n/a	n/a	n/a	3.05E-06	n/a	U
S10V002801		15046-84-1	Iodine-129	uCi/g	113	<1.93E-07	<1.76E-07	n/a	n/a	n/a	n/a	1.76E-07	n/a	U
S10V002803	WV	14133-76-7	Technetium-99	ug/g	110	<4.00E-06	7.11E-06	n/a	n/a	n/a	n/a	3.99E-06	n/a	
S10V002804	W	14762-75-5	Carbon-14	uCi/g	91.6	<1.40E-06	<1.33E-06	n/a	n/a	n/a	n/a	1.33E-06	n/a	U
S10V002804	W	10028-17-8	Tritium	uCi/g	92.9	<3.75E-07	<5.22E-05	n/a	n/a	n/a	n/a	5.22E-05	n/a	U
S10V002805	A	7440-36-0	Antimony	ug/g	102	<2.00E-04	0.127	n/a	n/a	n/a	n/a	9.99E-03	n/a	B
S10V002806	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	77.1	<77.4	<77.2	n/a	n/a	n/a	75.2	77.2	n/a	U
S10V002806	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S10V002806	O	121-14-2	2,4-Dinitrotoluene	ug/kg	108	<38.1	<38.0	n/a	n/a	n/a	115	38.0	n/a	UT
S10V002806	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S10V002806	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V002806	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.3	n/a	n/a	n/a	n/a	57.3	n/a	U
S10V002806	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.5	n/a	n/a	n/a	n/a	53.5	n/a	U
S10V002806	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S10V002806	O	83-32-9	Acenaphthene	ug/kg	92.7	<17.6	<17.5	n/a	n/a	n/a	97.1	17.5	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C40
Sample Depth: 142-144

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002806	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V002806	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U
S10V002806	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.1	n/a	n/a	n/a	n/a	41.1	n/a	U
S10V002806	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<588	n/a	n/a	n/a	n/a	588	n/a	U
S10V002806	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.0	n/a	n/a	n/a	n/a	39.0	n/a	U
S10V002806	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.9	n/a	n/a	n/a	n/a	49.9	n/a	U
S10V002806	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	85.6	<43.2	<43.1	n/a	n/a	n/a	99.9	43.1	n/a	U
S10V002806	O	95-57-8	2-Chlorophenol	ug/kg	82.5	<66.5	<66.3	n/a	n/a	n/a	80.5	66.3	n/a	U
S10V002806	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.2	n/a	n/a	n/a	n/a	81.2	n/a	U
S10V002806	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S10V002806	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<561	n/a	n/a	n/a	n/a	561	n/a	U
S10V002806	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S10V002806	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	75.1	<58.1	<57.9	n/a	n/a	n/a	74.8	57.9	n/a	U
S10V002806	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S10V002806	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.5	n/a	n/a	n/a	n/a	69.5	n/a	U
S10V002806	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V002806	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S10V002806	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.4	n/a	n/a	n/a	n/a	62.4	n/a	U
S10V002806	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.4	n/a	n/a	n/a	n/a	64.4	n/a	U
S10V002806	O	129-00-0	Pyrene	ug/kg	105	<62.9	<62.7	n/a	n/a	n/a	110	62.7	n/a	U
S10V002806	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	U
S10V002806	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V002806	O	128-37-0	BHT	ug/kg	n/a	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S10V002806	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V002806	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V002806	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V002806	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V002806	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<459	n/a	n/a	n/a	n/a	459	n/a	U
S10V002807	W	16984-48-8	Fluoride	ug/g	101	<1.61E-03	0.566	n/a	n/a	n/a	n/a	0.0160	n/a	

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C40
Sample Depth: 142-144

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002807	W	GLYCOLAT	Glycolate	ug/g	99.6	<9.37E-03	<0.0930	n/a	n/a	n/a	n/a	0.0930	n/a	U
S10V002807	W	71-50-1	Acetate	ug/g	97.2	<6.04E-03	13.4	n/a	n/a	n/a	n/a	0.0599	n/a	
S10V002807	W	FORMATE	Formate	ug/g	101	<4.67E-03	0.750	n/a	n/a	n/a	n/a	0.0463	n/a	B
S10V002807	W	16887-00-6	Chloride	ug/g	99.4	0.0107	5.73	n/a	n/a	n/a	n/a	0.0990	n/a	
S10V002807	W	14797-65-0	Nitrite	ug/g	100	<0.0192	0.808	n/a	n/a	n/a	n/a	0.190	n/a	B
S10V002807	W	14808-79-8	Sulfate	ug/g	101	<0.0187	159	n/a	n/a	n/a	n/a	0.186	n/a	
S10V002807	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.229	n/a	n/a	n/a	n/a	0.229	n/a	U
S10V002807	W	24959-67-9	Bromide	ug/g	98.4	<0.0580	<0.575	n/a	n/a	n/a	n/a	0.575	n/a	U
S10V002807	W	14797-55-8	Nitrate	ug/g	99.2	<0.0208	15.2	n/a	n/a	n/a	n/a	0.206	n/a	
S10V002807	W	14265-44-2	Phosphate	ug/g	99.0	<0.0167	0.277	n/a	n/a	n/a	n/a	0.166	n/a	B
S10V002808	A	7429-90-5	Aluminum	ug/g	98.0	<0.0300	5.39E+03	n/a	n/a	n/a	n/a	2.96	n/a	
S10V002808	A	7440-39-3	Barium	ug/g	88.6	<3.00E-03	57.0	n/a	n/a	n/a	n/a	0.296	n/a	N
S10V002808	A	7440-41-7	Beryllium	ug/g	89.5	<1.00E-03	0.112	n/a	n/a	n/a	n/a	0.0987	n/a	B
S10V002808	A	7440-70-2	Calcium	ug/g	89.6	0.101	7.77E+03	n/a	n/a	n/a	n/a	4.94	n/a	
S10V002808	A	7440-45-1	Cerium	ug/g	92.7	<0.0300	15.9	n/a	n/a	n/a	n/a	2.96	n/a	BN
S10V002808	A	7440-48-4	Cobalt	ug/g	80.7	<0.0100	4.94	n/a	n/a	n/a	n/a	0.987	n/a	B
S10V002808	A	7440-47-3	Chromium	ug/g	80.7	<5.00E-03	11.0	n/a	n/a	n/a	n/a	0.494	n/a	M
S10V002808	A	7440-50-8	Copper	ug/g	90.0	<5.00E-03	9.37	n/a	n/a	n/a	n/a	0.494	n/a	
S10V002808	A	7439-89-6	Iron	ug/g	83.3	0.0115	1.57E+04	n/a	n/a	n/a	n/a	0.494	n/a	
S10V002808	A	7440-09-7	Potassium	ug/g	94.0	<0.500	674	n/a	n/a	n/a	n/a	49.4	n/a	
S10V002808	A	7439-91-0	Lanthanum	ug/g	90.2	<3.00E-03	7.39	n/a	n/a	n/a	n/a	0.296	n/a	
S10V002808	A	7439-93-2	Lithium	ug/g	88.9	<3.00E-03	6.94	n/a	n/a	n/a	n/a	0.296	n/a	
S10V002808	A	7439-95-4	Magnesium	ug/g	96.8	<0.0500	4.12E+03	n/a	n/a	n/a	n/a	4.94	n/a	
S10V002808	A	7439-96-5	Manganese	ug/g	80.2	<3.00E-03	250	n/a	n/a	n/a	n/a	0.296	n/a	
S10V002808	A	7439-98-7	Molybdenum	ug/g	82.2	<0.0200	<1.97	n/a	n/a	n/a	n/a	1.97	n/a	U
S10V002808	A	7440-23-5	Sodium	ug/g	87.1	<0.100	312	n/a	n/a	n/a	n/a	9.87	n/a	NM
S10V002808	A	7440-02-0	Nickel	ug/g	98.9	<0.0200	8.65	n/a	n/a	n/a	n/a	1.97	n/a	B
S10V002808	A	7723-14-0	Phosphorus	ug/g	81.1	<0.0500	508	n/a	n/a	n/a	n/a	4.94	n/a	
S10V002808	A	7704-34-9	Sulfur	ug/g	81.2	<0.100	105	n/a	n/a	n/a	n/a	9.87	n/a	

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C40
Sample Depth: 142-144

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002808	A	7440-21-3	Silicon	ug/g	94.7	<0.0300	46.9	n/a	n/a	n/a	n/a	2.96	n/a	NM
S10V002808	A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	24.9	n/a	n/a	n/a	n/a	0.296	n/a	NM
S10V002808	A	7440-32-6	Titanium	ug/g	82.5	<5.00E-03	990	n/a	n/a	n/a	n/a	0.494	n/a	
S10V002808	A	7440-62-2	Vanadium	ug/g	84.5	<5.00E-03	35.1	n/a	n/a	n/a	n/a	0.494	n/a	
S10V002808	A	7440-65-5	Yttrium	ug/g	82.8	<2.00E-03	6.23	n/a	n/a	n/a	n/a	0.197	n/a	
S10V002808	A	7440-66-6	Zinc	ug/g	81.5	<5.00E-03	29.8	n/a	n/a	n/a	n/a	0.494	n/a	
S10V002808	A	7440-67-7	Zirconium	ug/g	99.0	<5.00E-03	8.67	n/a	n/a	n/a	n/a	0.494	n/a	N
S10V002808	A	14269-63-7	Thorium-230	ug/g	n/a	4.16E-06	<2.79E-05	n/a	n/a	n/a	n/a	2.79E-05	n/a	U
S10V002808	A	TH-232	Thorium-232	ug/g	107	<2.00E-04	2.43	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002808	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	9.05E-05	n/a	n/a	n/a	n/a	3.95E-05	n/a	
S10V002808	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	5.66E-05	n/a	n/a	n/a	n/a	1.97E-05	n/a	
S10V002808	A	15117-96-1	Uranium-235	ug/g	97.2	<4.00E-06	3.13E-03	n/a	n/a	n/a	n/a	3.95E-05	n/a	
S10V002808	A	13982-70-2	Uranium-236	ug/g	n/a	1.62E-06	<1.58E-05	n/a	n/a	n/a	n/a	1.58E-05	n/a	U
S10V002808	A	13994-20-2	Neptunium-237	ug/g	100	<4.00E-05	<3.95E-04	n/a	n/a	n/a	n/a	3.95E-04	n/a	U
S10V002808	A	U-238	Uranium-238	ug/g	106	<2.00E-04	0.446	n/a	n/a	n/a	n/a	1.97E-03	n/a	
S10V002808	A	7440-22-4	Silver	ug/g	119	<4.00E-04	0.0445	n/a	n/a	n/a	n/a	3.95E-03	n/a	
S10V002808	A	7440-38-2	Arsenic	ug/g	106	<8.40E-03	2.55	n/a	n/a	n/a	n/a	0.0829	n/a	
S10V002808	A	7440-43-9	Cadmium	ug/g	107	<1.80E-03	0.0685	n/a	n/a	n/a	n/a	0.0118	n/a	B
S10V002808	A	7439-92-1	Lead	ug/g	99.4	<3.00E-03	4.59	n/a	n/a	n/a	n/a	0.0296	n/a	
S10V002808	A	7782-49-2	Selenium	ug/g	104	<0.0270	0.438	n/a	n/a	n/a	n/a	0.267	n/a	B
S10V002808	A	7440-28-0	Thallium	ug/g	98.8	<4.00E-04	0.0906	n/a	n/a	n/a	n/a	7.90E-03	n/a	
S10V002809	S	14798-03-9	Ammonium	ug/g	91.0	0.244	1.18	n/a	n/a	n/a	n/a	0.477	n/a	CB
S10V002810	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.96E-04	n/a	n/a	n/a	n/a	2.96E-04	n/a	U
S10V002810	A	SN-117	Tin-117	ug/g	108	<1.00E-03	<9.87E-03	n/a	n/a	n/a	n/a	9.87E-03	n/a	UN
S10V002810	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.62E-04	n/a	n/a	n/a	n/a	1.97E-04	n/a	BE N
S10V002811	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.10E-07	<1.81E-07	n/a	n/a	n/a	n/a	1.81E-07	n/a	U
S10V002811	E	14596-10-2	Americium-241	uCi/g	93.7	<5.25E-07	<4.53E-07	n/a	n/a	n/a	n/a	4.53E-07	n/a	U
S10V002811	E	15510-73-3	Curium-242	uCi/g	n/a	<2.10E-07	<1.81E-07	n/a	n/a	n/a	n/a	1.81E-07	n/a	U
S10V002811	E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<6.08E-07	<3.35E-07	n/a	n/a	n/a	n/a	3.35E-07	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C40
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002811		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-07	<3.35E-07	n/a	n/a	n/a	n/a	3.35E-07	n/a	U
S10V002812		E	SR-89/90	Strontium-89/90	uCi/g	98.8	<1.88E-07	<2.08E-07	n/a	n/a	n/a	n/a	2.08E-07	n/a	U
S10V002813		E	13981-37-8	Nickel-63	uCi/g	105	<5.73E-06	<1.01E-05	n/a	n/a	n/a	n/a	1.01E-05	n/a	U
S10V002813		E	15758-45-9	Selenium-79	uCi/g	n/a	2.39E-06	<3.97E-06	n/a	n/a	n/a	n/a	3.97E-06	n/a	U

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Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C41
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002794			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0846	n/a	n/a	n/a	n/a	0.0846	n/a	U
S10V002794			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.152	n/a	n/a	n/a	n/a	0.152	n/a	U
S10V002794			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S10V002794			75-35-4	1,1-Dichloroethene	ug/kg	92.0	<0.423	<0.389	n/a	n/a	n/a	n/a	0.389	n/a	U
S10V002794			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0494	n/a	n/a	n/a	n/a	0.0494	n/a	U
S10V002794			71-36-3	1-Butanol	ug/kg	116	<10.3	<9.46	n/a	n/a	n/a	n/a	9.46	n/a	U
S10V002794			108-10-1	Hexone	ug/kg	124	<1.71	<1.57	n/a	n/a	n/a	n/a	1.57	n/a	U
S10V002794			67-64-1	Acetone	ug/kg	108	<2.20	<2.02	n/a	n/a	n/a	n/a	2.02	n/a	U
S10V002794			71-43-2	Benzene	ug/kg	98.2	<0.147	<0.135	n/a	n/a	n/a	n/a	0.135	n/a	U
S10V002794			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.148	n/a	n/a	n/a	n/a	0.148	n/a	U
S10V002794			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0858	n/a	n/a	n/a	n/a	0.0858	n/a	U
S10V002794			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.120	n/a	n/a	n/a	n/a	0.120	n/a	U
S10V002794			108-90-7	Chlorobenzene	ug/kg	103	<0.0864	<0.0794	n/a	n/a	n/a	n/a	0.0794	n/a	U
S10V002794			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0985	n/a	n/a	n/a	n/a	0.0985	n/a	U
S10V002794			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.187	n/a	n/a	n/a	n/a	0.187	n/a	U
S10V002794			78-93-3	2-Butanone	ug/kg	113	<1.96	<1.81	n/a	n/a	n/a	n/a	1.81	n/a	U
S10V002794			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0588	n/a	n/a	n/a	n/a	0.0588	n/a	U
S10V002794			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.101	n/a	n/a	n/a	n/a	0.101	n/a	U
S10V002794			108-88-3	Toluene	ug/kg	101	<0.0802	0.301	n/a	n/a	n/a	n/a	0.0737	n/a	J
S10V002794			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.249	n/a	n/a	n/a	n/a	0.249	n/a	U
S10V002794			79-01-6	Trichloroethene	ug/kg	98.5	<0.121	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S10V002794			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S10V002794			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S10V002794			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S10V002794			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.107	n/a	n/a	n/a	n/a	0.107	n/a	U
S10V002794			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.540	n/a	n/a	n/a	n/a	0.540	n/a	U
S10V002794			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.540	n/a	n/a	n/a	n/a	0.540	n/a	U
S10V002794			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.235	n/a	n/a	n/a	n/a	0.235	n/a	U
S10V002794			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0864	n/a	n/a	n/a	n/a	0.0864	n/a	U

NA = Not Analyzed, ND = Not Detected

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

Data Summary Report

Sample Group: 20100584
Core Number: C7680
Customer Sample ID: B26C41
Sample Depth: 142-144

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002794			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0846	n/a	n/a	n/a	n/a	0.0846	n/a	U
S10V002794			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.154	n/a	n/a	n/a	n/a	0.154	n/a	U

NA = Not Analyzed, ND = Not Detected

T - MS/MSD Outside Range
U - Less Than Detection Limit
M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

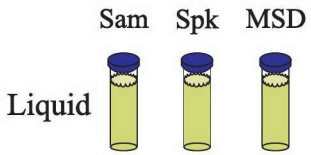
B - Estimated
N - MS/MSD Outside Range

Attachment 2

SAMPLE BREAKDOWN DIAGRAM

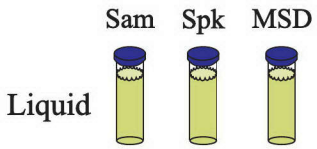
Vadose Zone: C Farm
Core No.: C7680
Group 20100583 (ATL)

Sample Depth Field Blank-1
Customer ID. B26CW2



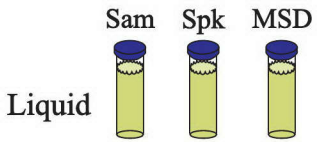
S10V001846
VOA

Sample Depth Field Blank-2
Customer ID. B26CW3



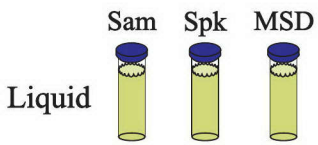
S10V001855
VOA

Sample Depth Field Blank-3
Customer ID. B26CW4



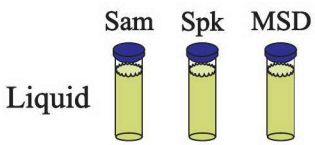
S10V001847
VOA

Sample Depth Field Blank-5
Customer ID. B26CW6



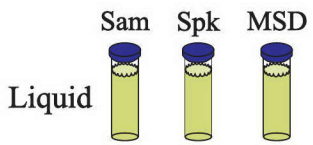
S10V001849
VOA

Sample Depth Field Blank-4
Customer ID. B26CW5



S10V001848
VOA

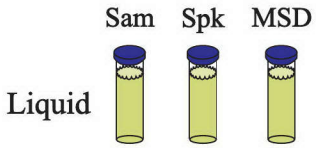
Sample Depth Field Blank-6
Customer ID. B26CW7



S10V001850
VOA

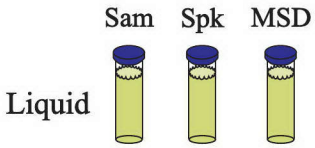
Vadose Zone: C Farm
Core No.: C7680
Group 20100583 (ATL)

Sample Depth Field Blank-7
Customer ID. B26CW8



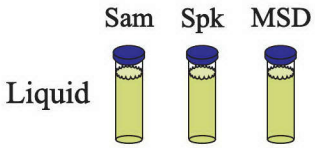
S10V001851
VOA

Sample Depth Field Blank-8
Customer ID. B26CW9



S10V001852
VOA

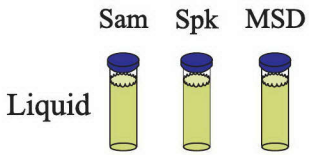
Sample Depth Field Blank-9
Customer ID. B26CX0



S10V001853
VOA

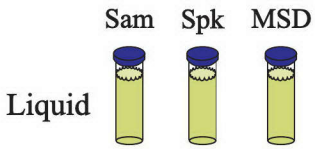
Vadose Zone: C Farm
Core No.: C7680
Group 20100583 (ATL)

Sample Depth Trip Blank-1
Customer ID. B26CV1



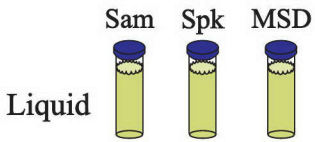
S10V001856
VOA

Sample Depth Trip Blank-2
2Customer ID. B26CV2



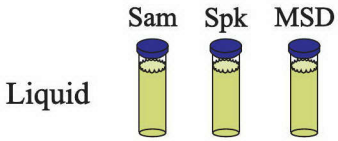
S10V001865
VOA

Sample Depth Trip Blank-3
Customer ID. B26CV3



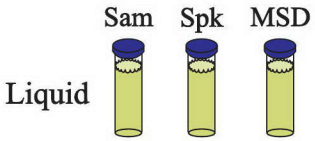
S10V001857
VOA

Sample Depth Trip Blank-4
Customer ID. B26CV4



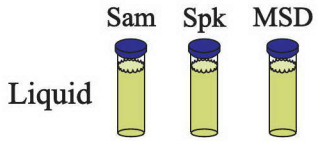
S10V001858
VOA

Sample Depth Trip Blank-5
Customer ID. B26CV5



S10V001859
VOA

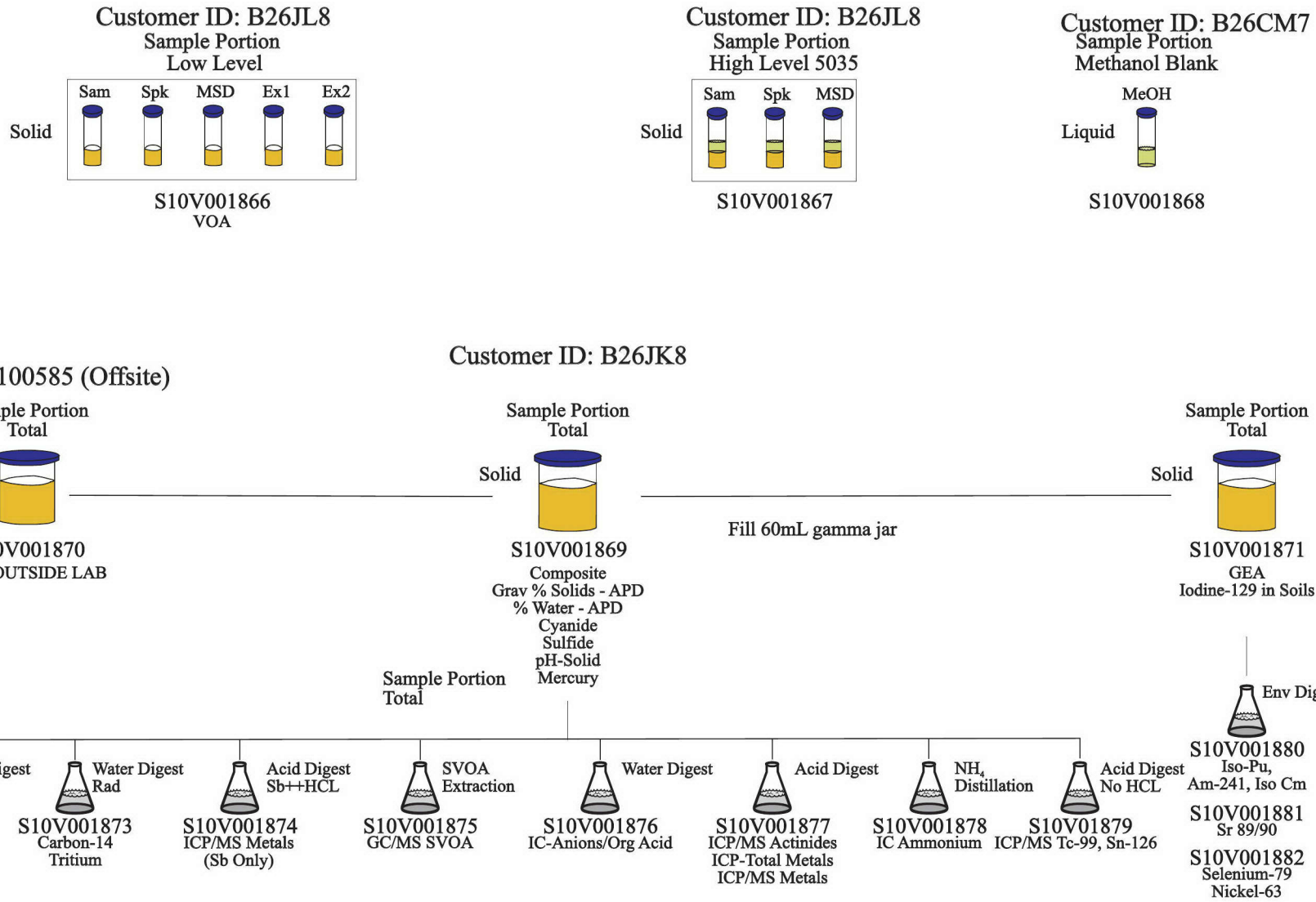
Sample Depth Trip Blank-6
Customer ID. B26CV6



S10V001860
VOA

Vadose Zone: C Farm 2010
Core No.: C7680
Group 20100584 (ATL)
Group 20100585 (Offsite)

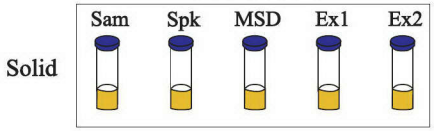
Sample Depth: Surface
Segment No: Surface



Vadose Zone: C Farm 2010
Core No.: C7680
Group 20100584 (ATL)
Group 20100585 (Offsite)

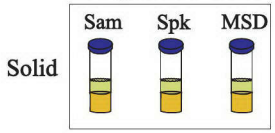
Sample Depth: Surface-Dup
Segment No: Surface Dup

Customer ID: B26JL9
Sample Portion
Low Level



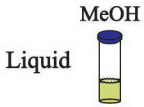
S10V001883
VOA

Customer ID: B26JL9
Sample Portion
High Level 5035



S10V001884

Customer ID: B26CM8
Sample Portion
Methanol Blank

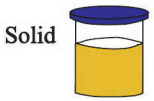


S10V001885

Customer ID: B26JK9

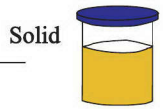
Group 20100585 (Offsite)

Sample Portion
Total



S10V001887
SHIP-OUTSIDE LAB

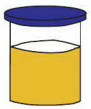
Sample Portion
Total



S10V001886
Composite
Grav % Solids - APD
% Water - APD
Cyanide
Sulfide
pH-Solid
Mercury

Fill 60mL gamma jar

Sample Portion
Total



S10V001888
GEA
Iodine-129 in Soils

Sample Portion
Total

S10V001889
ICP/MS Tc-99

S10V001890
Carbon-14
Tritium

S10V001891
ICP/MS Metals
(Sb Only)

S10V001892
GC/MS SVOA

S10V001893
IC-Anions/Org Acid

S10V001894
ICP/MS Actinides
ICP-Total Metals
ICP/MS Metals

S10V001895
IC Ammonium

S10V001896
ICP/MS Tc-99, Sn-126

Env Digest

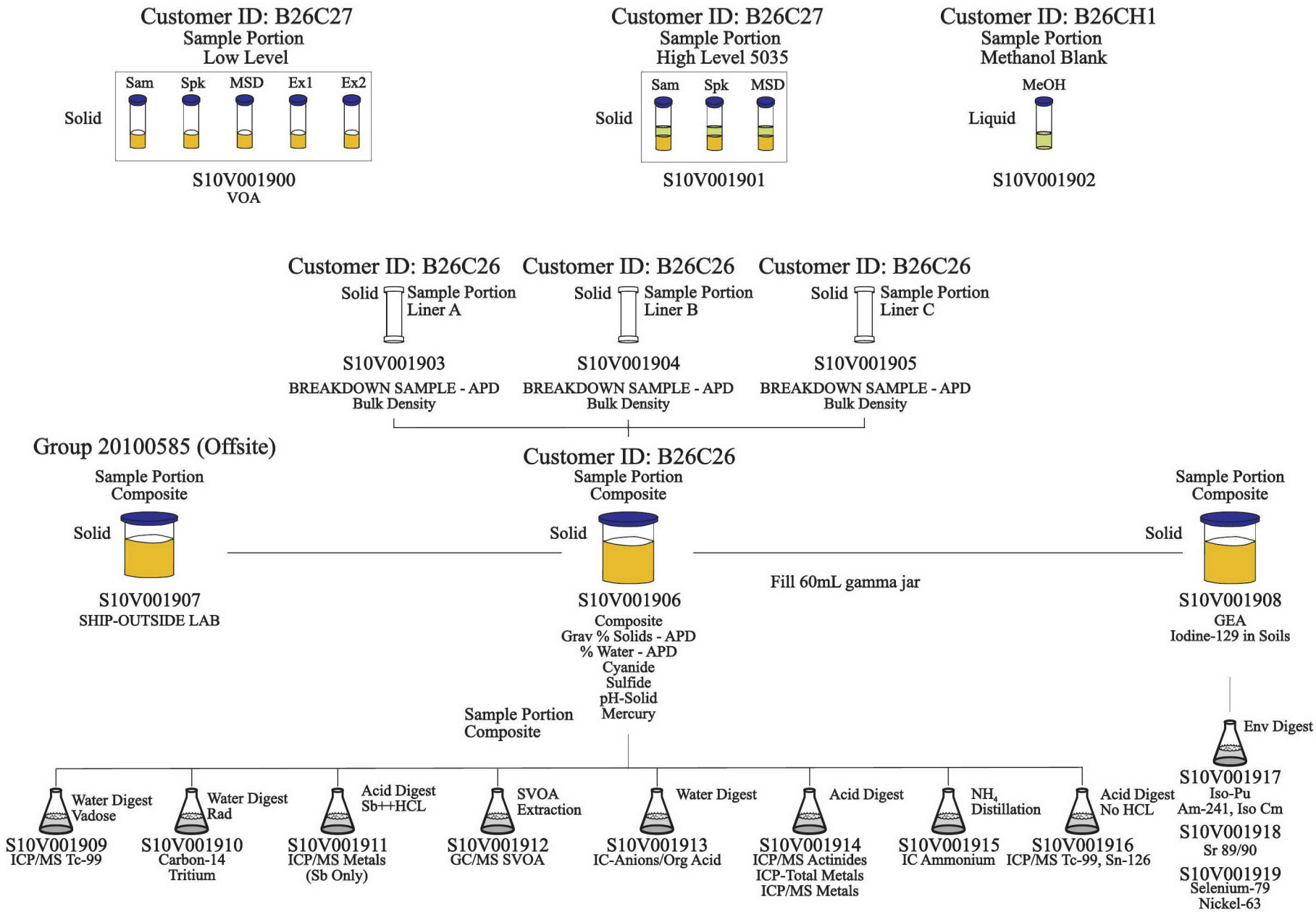
S10V001897
Iso-Pu,
Am-241, Iso Cm

S10V001989
Sr 89/90

S10V001899
Selenium-79
Nickel-63

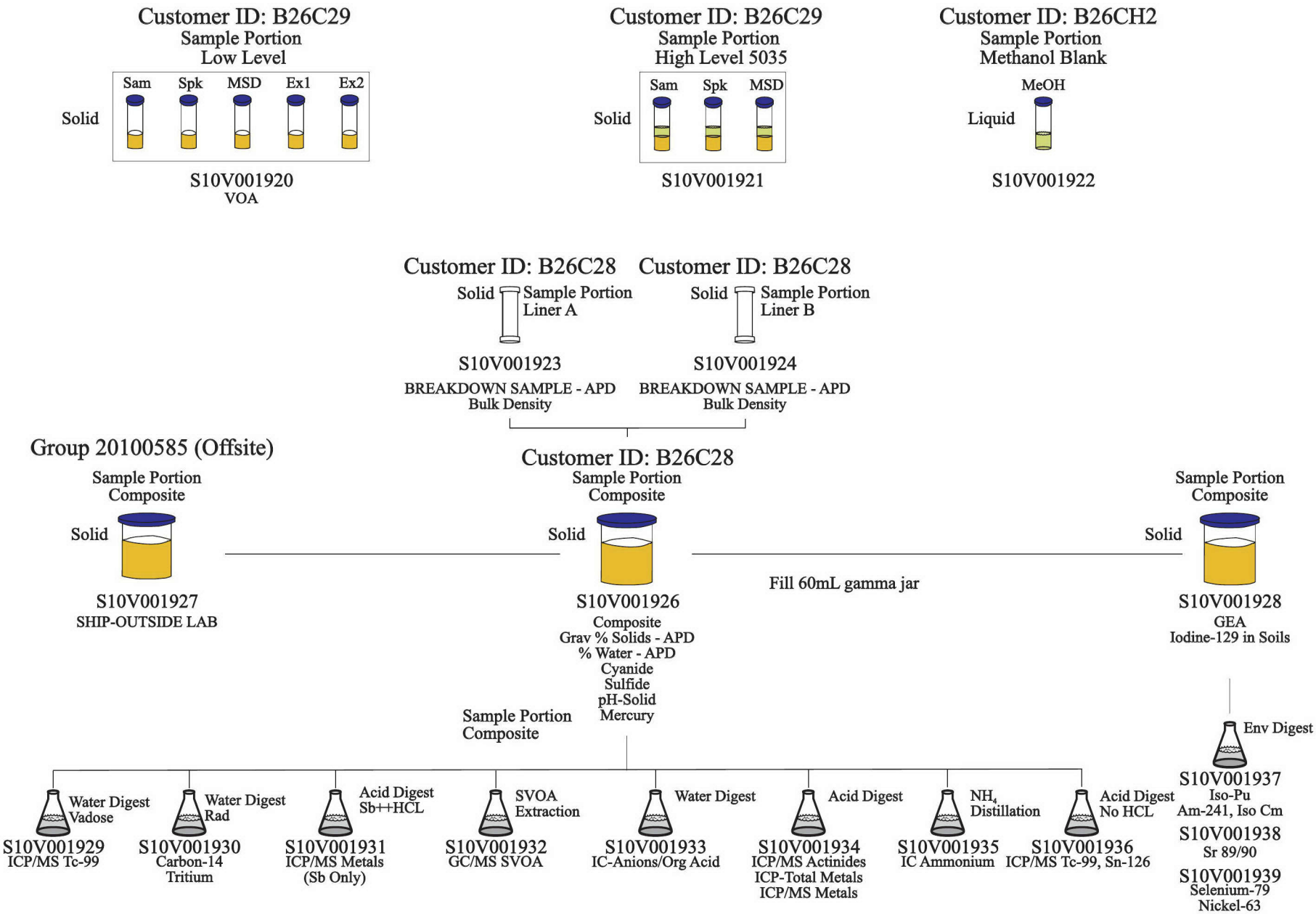
Vadose Zone: C Farm 2010
Core No.: C7680
Group 20100584 (ATL)
Group 20100585 (Offsite)

Sample Depth: 5-7
Segment No: I001



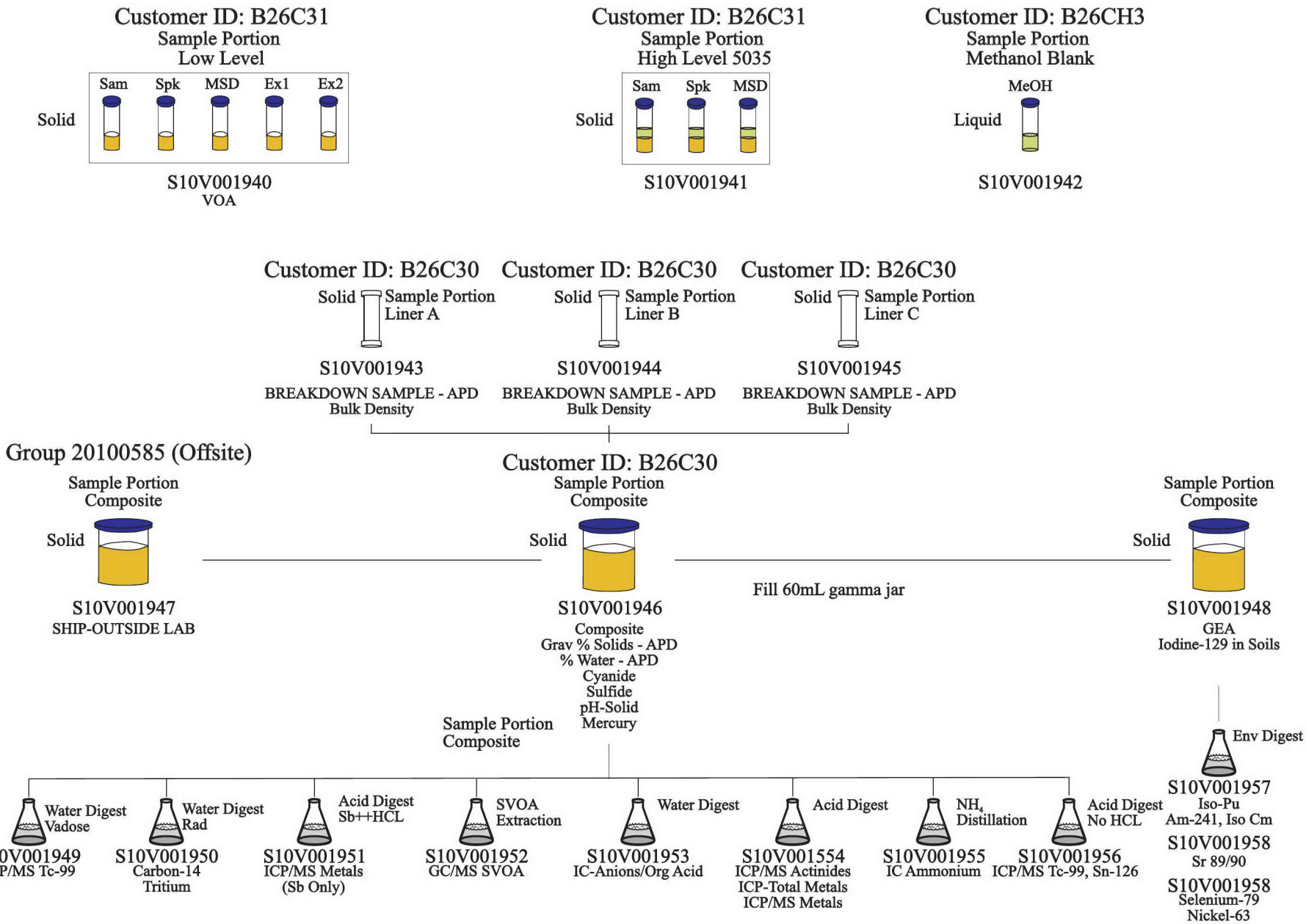
Vadose Zone: C Farm 2010
Core No.: C7680
Group 20100584 (ATL)
Group 20100585 (Offsite)

Sample Depth: 10-12
Segment No: I002



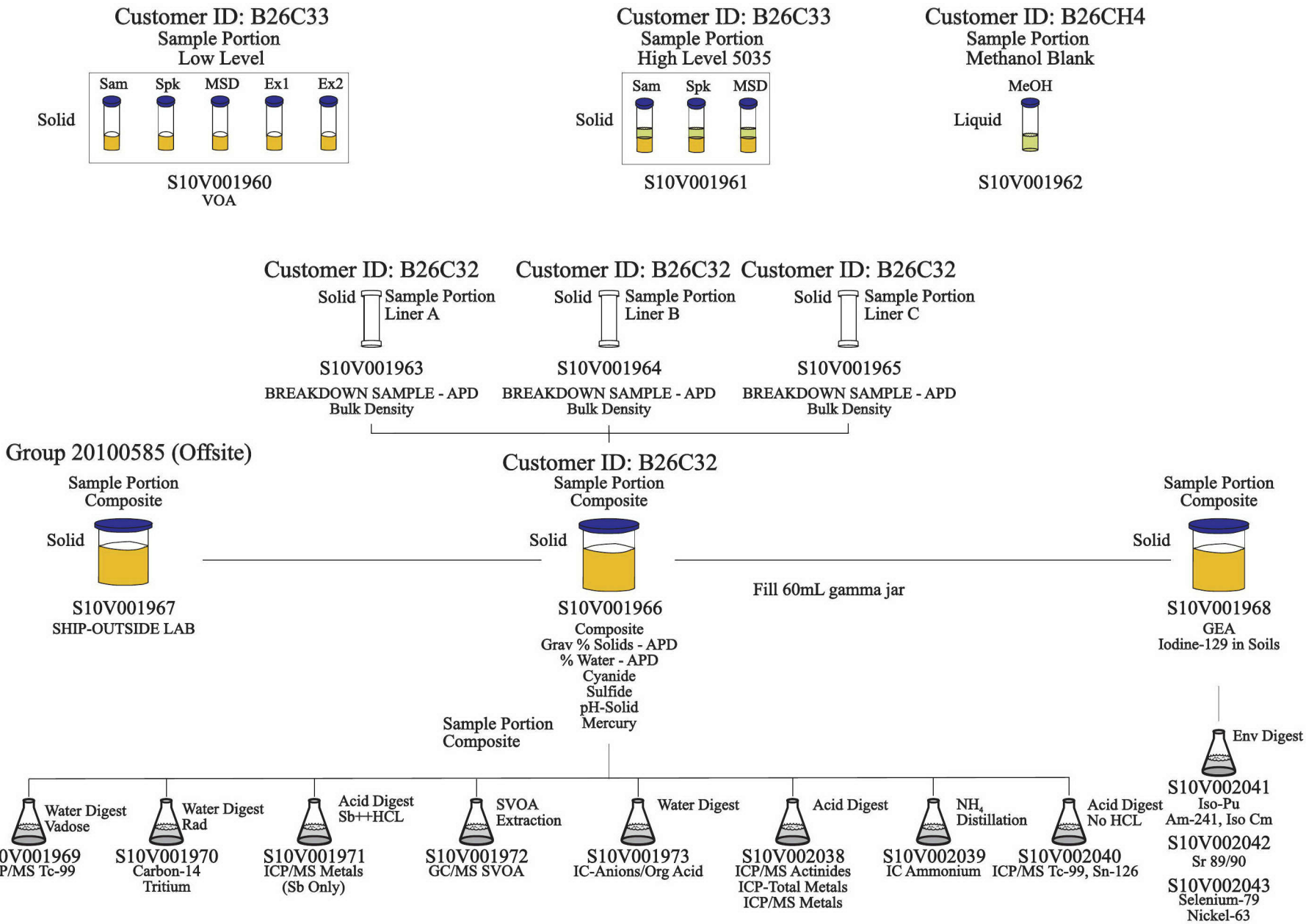
Vadose Zone: C Farm 2010
Core No.: C7680
Group 20100584 (ATL)
Group 20100585 (Offsite)

Sample Depth: 14-16
Segment No: I003



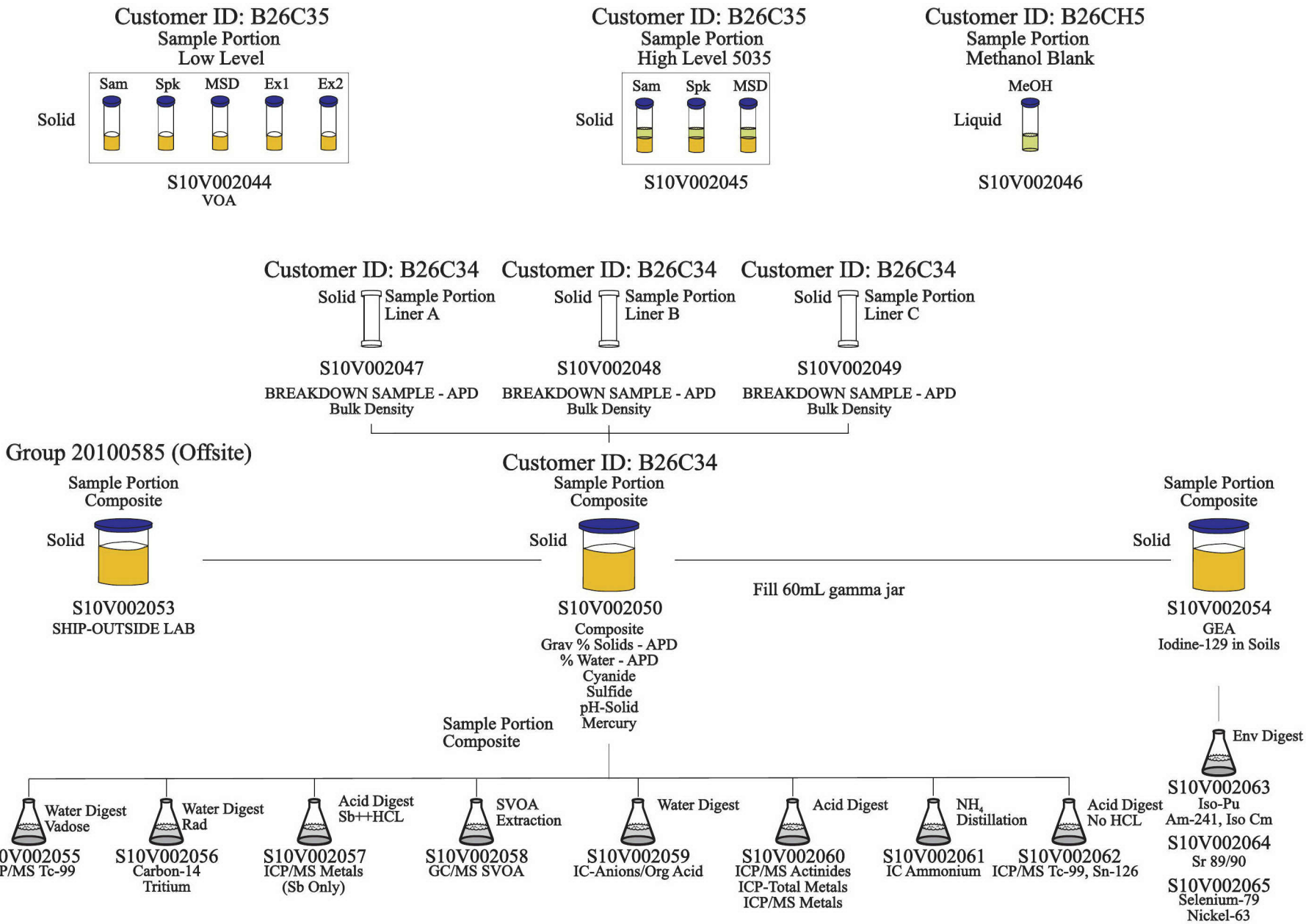
Vadose Zone: C Farm 2010
Core No.: C7680
Group 20100584 (ATL)
Group 20100585 (Offsite)

Sample Depth: 17-19
Segment No: I004



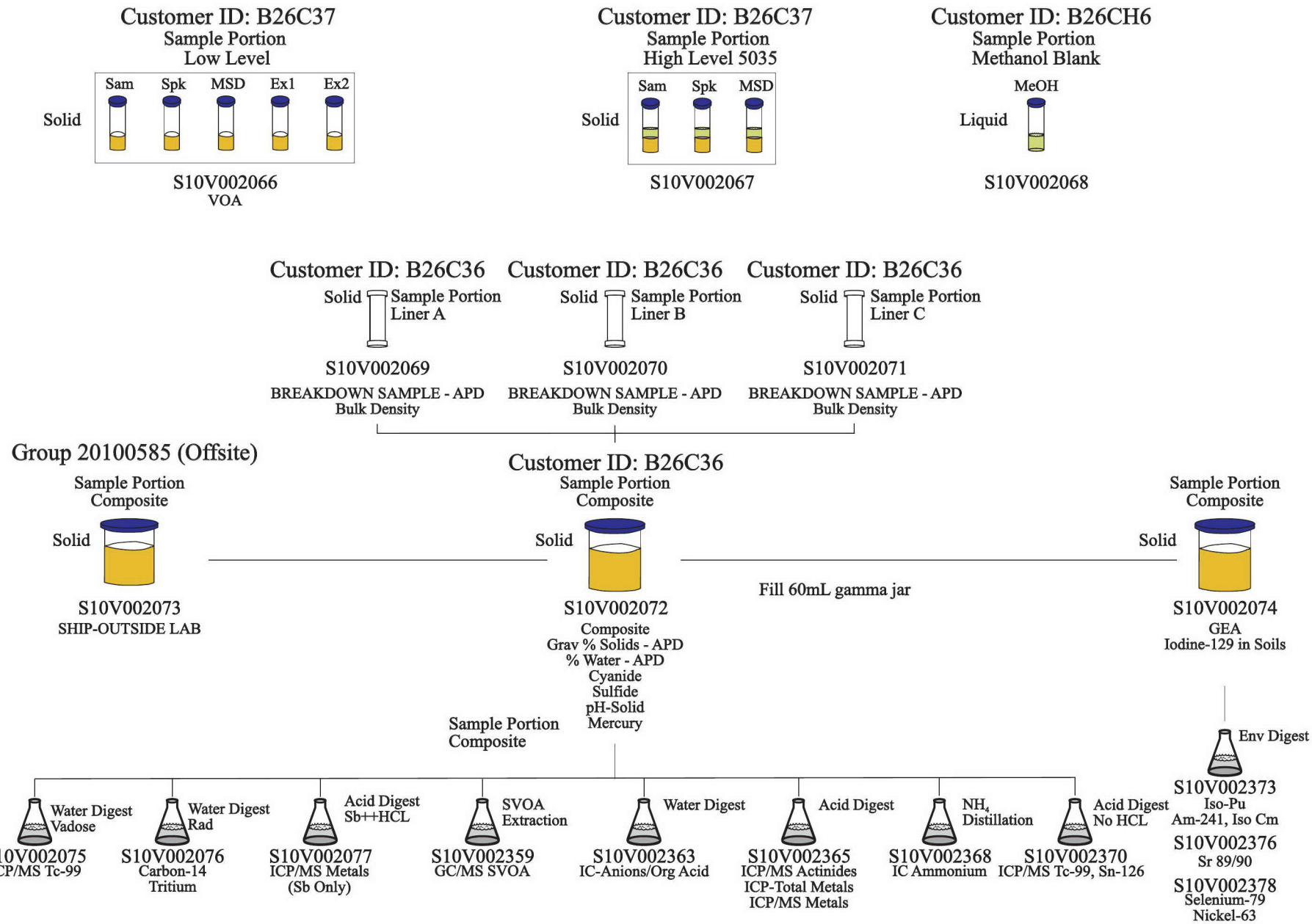
Vadose Zone: C Farm 2010
Core No.: C7680
Group 20100584 (ATL)
Group 20100585 (Offsite)

Sample Depth: 43-45
Segment No: I005



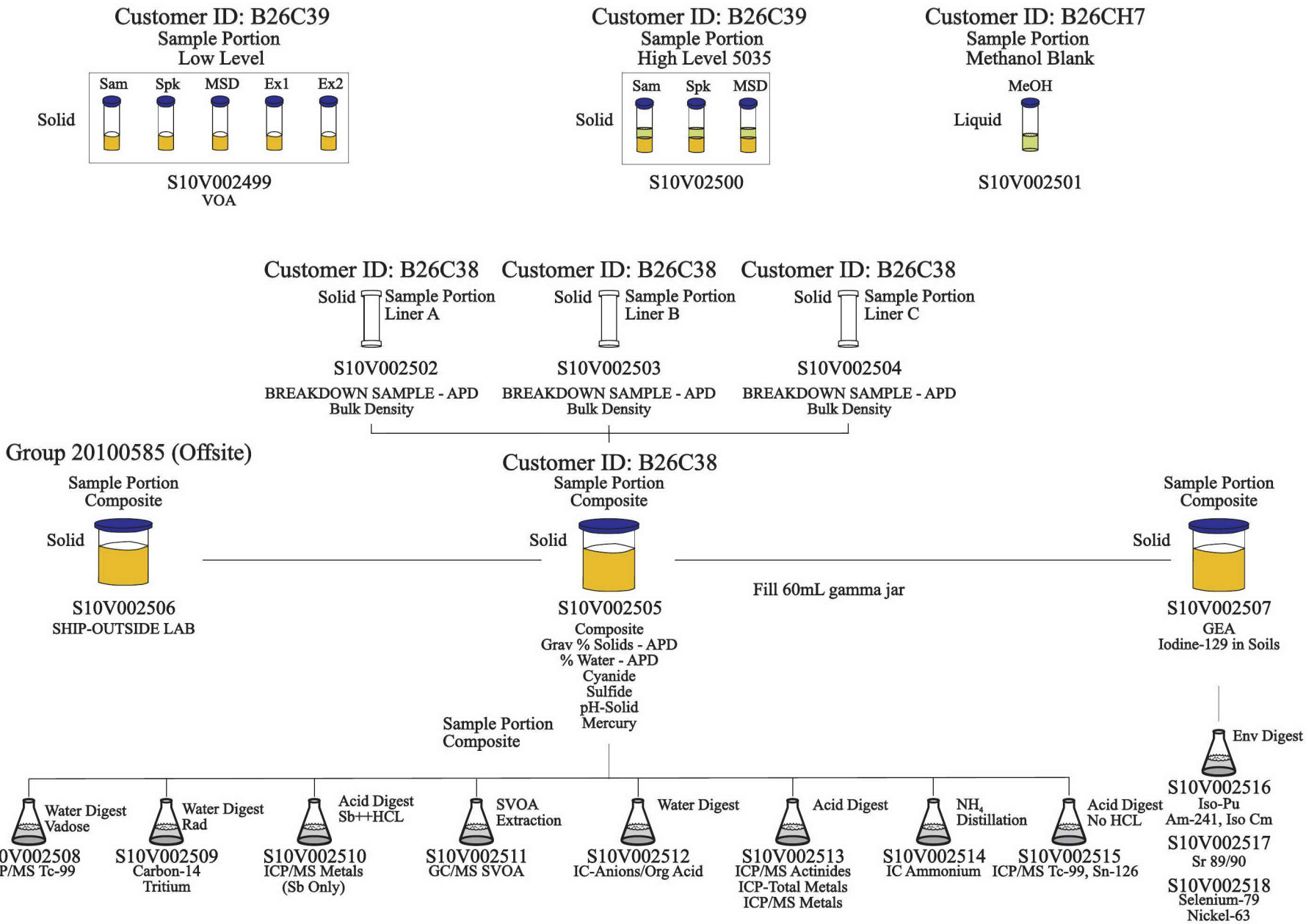
Vadose Zone: C Farm 2010
Core No.: C7680
Group 20100584 (ATL)
Group 20100585 (Offsite)

Sample Depth: 92-94
Segment No: I006



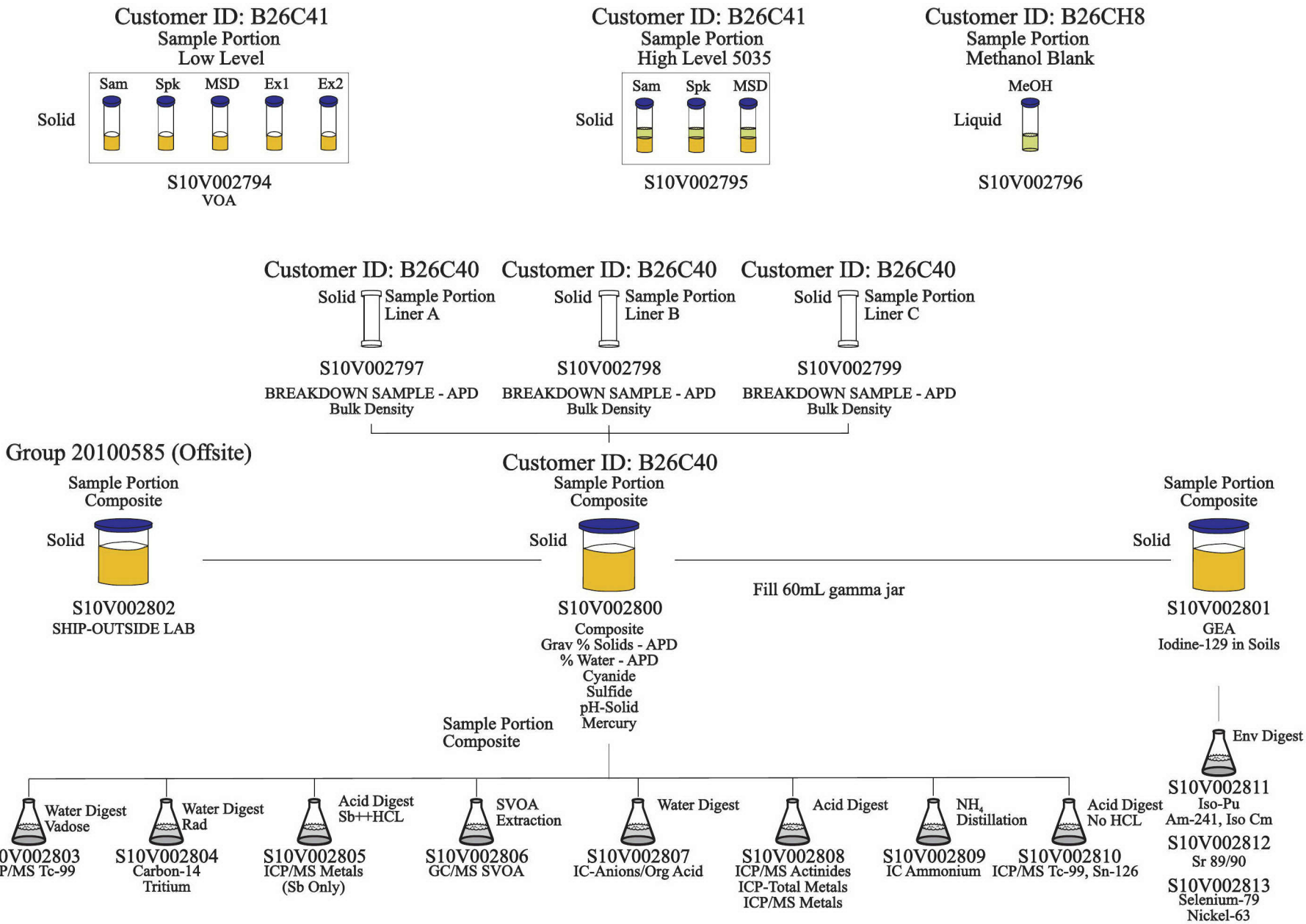
Vadose Zone: C Farm 2010
Core No.: C7680
Group 20100584 (ATL)
Group 20100585 (Offsite)

Sample Depth: 116-118
Segment No: I007



Vadose Zone: C Farm 2010
Core No.: C7680
Group 20100584 (ATL)
Group 20100585 (Offsite)

Sample Depth: 142-144
Segment No: I008



Attachment 3

HOLDING TIME REPORT

Holding Time Report: Cyanide

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V001869	SOLID	SW846-9014	SW846-9010C	08/26/10 09:00	08/26/10 10:20	09/08/10 14:03	N
20100584	S10V001886	SOLID	SW846-9014	SW846-9010C	08/26/10 09:15	08/26/10 10:20	09/08/10 14:03	N
20100584	S10V001906	SOLID	SW846-9014	SW846-9010C	08/27/10 13:15	08/27/10 14:00	09/02/10 15:03	N
20100584	S10V001926	SOLID	SW846-9014	SW846-9010C	08/29/10 08:30	08/29/10 11:47	09/02/10 15:03	N
20100584	S10V001946	SOLID	SW846-9014	SW846-9010C	08/29/10 09:35	08/29/10 11:47	09/02/10 15:03	N
20100584	S10V001966	SOLID	SW846-9014	SW846-9010C	08/29/10 10:50	08/29/10 11:47	09/02/10 15:03	N
20100584	S10V002050	SOLID	SW846-9014	SW846-9010C	08/31/10 09:35	08/31/10 10:45	09/02/10 15:03	N
20100584	S10V002072	SOLID	SW846-9014	SW846-9010C	09/01/10 10:15	09/01/10 11:10	09/02/10 15:03	N
20100584	S10V002505	SOLID	SW846-9014	SW846-9010C	09/01/10 17:40	09/01/10 22:00	09/08/10 14:03	N
20100584	S10V002800	SOLID	SW846-9014	SW846-9010C	09/01/10 21:00	09/01/10 22:00	09/08/10 14:03	N

Holding Time Report: Sulfide

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V001869	SOLID	SW-846 9215	SW-846 9030B	08/26/10 09:00	08/26/10 10:20	08/27/10 14:20	N
20100584	S10V001886	SOLID	SW-846 9215	SW-846 9030B	08/26/10 09:15	08/26/10 10:20	08/27/10 14:20	N
20100584	S10V001906	SOLID	SW-846 9215	SW-846 9030B	08/27/10 13:15	08/27/10 14:00	09/02/10 15:05	N
20100584	S10V001926	SOLID	SW-846 9215	SW-846 9030B	08/29/10 08:30	08/29/10 11:47	09/02/10 15:05	N
20100584	S10V001946	SOLID	SW-846 9215	SW-846 9030B	08/29/10 09:35	08/29/10 11:47	09/02/10 15:05	N
20100584	S10V001966	SOLID	SW-846 9215	SW-846 9030B	08/29/10 10:50	08/29/10 11:47	09/02/10 15:05	N
20100584	S10V002050	SOLID	SW-846 9215	SW-846 9030B	08/31/10 09:35	08/31/10 10:45	09/02/10 15:05	N
20100584	S10V002072	SOLID	SW-846 9215	SW-846 9030B	09/01/10 10:15	09/01/10 11:10	09/07/10 13:40	N
20100584	S10V002505	SOLID	SW-846 9215	SW-846 9030B	09/01/10 17:40	09/01/10 22:00	09/07/10 13:40	N
20100584	S10V002800	SOLID	SW-846 9215	SW-846 9030B	09/01/10 21:00	09/01/10 22:00	09/07/10 13:40	N

Holding Time Report: pH

Sample Group	Sample	Matrix	Method	Sample Date	Received Date	Analysis Date	Days Lasped
20100584	S10V001869	SOLID	SW-846 9045D	08/26/10 09:00	08/26/10 10:20	09/20/10 15:45	25.3
20100584	S10V001886	SOLID	SW-846 9045D	08/26/10 09:15	08/26/10 10:20	09/20/10 15:45	25.3
20100584	S10V001906	SOLID	SW-846 9045D	08/27/10 13:15	08/27/10 14:00	09/20/10 15:45	24.1
20100584	S10V001926	SOLID	SW-846 9045D	08/29/10 08:30	08/29/10 11:47	09/20/10 15:45	22.3
20100584	S10V001946	SOLID	SW-846 9045D	08/29/10 09:35	08/29/10 11:47	09/20/10 15:45	22.3
20100584	S10V001966	SOLID	SW-846 9045D	08/29/10 10:50	08/29/10 11:47	09/20/10 15:45	22.2
20100584	S10V002050	SOLID	SW-846 9045D	08/31/10 09:35	08/31/10 10:45	09/20/10 15:45	20.3
20100584	S10V002072	SOLID	SW-846 9045D	09/01/10 10:15	09/01/10 11:10	09/20/10 15:45	19.2
20100584	S10V002505	SOLID	SW-846 9045D	09/01/10 17:40	09/01/10 22:00	09/20/10 15:45	18.9
20100584	S10V002800	SOLID	SW-846 9045D	09/01/10 21:00	09/01/10 22:00	09/20/10 15:45	18.8

Holding Time Report: Mercury

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V001869	SOLID	SW-846 7471A	SW-846 7471A	08/26/10 09:00	08/26/10 10:20	09/14/10 20:20	N
20100584	S10V001886	SOLID	SW-846 7471A	SW-846 7471A	08/26/10 09:15	08/26/10 10:20	09/14/10 20:20	N
20100584	S10V001906	SOLID	SW-846 7471A	SW-846 7471A	08/27/10 13:15	08/27/10 14:00	09/14/10 20:20	N
20100584	S10V001926	SOLID	SW-846 7471A	SW-846 7471A	08/29/10 08:30	08/29/10 11:47	09/14/10 20:20	N
20100584	S10V001946	SOLID	SW-846 7471A	SW-846 7471A	08/29/10 09:35	08/29/10 11:47	09/14/10 20:20	N
20100584	S10V001966	SOLID	SW-846 7471A	SW-846 7471A	08/29/10 10:50	08/29/10 11:47	09/14/10 20:20	N
20100584	S10V002050	SOLID	SW-846 7471A	SW-846 7471A	08/31/10 09:35	08/31/10 10:45	09/14/10 20:20	N
20100584	S10V002072	SOLID	SW-846 7471A	SW-846 7471A	09/01/10 10:15	09/01/10 11:10	09/14/10 20:20	N
20100584	S10V002505	SOLID	SW-846 7471A	SW-846 7471A	09/01/10 17:40	09/01/10 22:00	09/14/10 20:20	N
20100584	S10V002800	SOLID	SW-846 7471A	SW-846 7471A	09/01/10 21:00	09/01/10 22:00	09/14/10 20:20	N

Holding Time Report: IC Ammonium

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100584	S10V001878	SOLID	EPA-300.7	Distillation	08/26/10 09:00	08/26/10 10:20	08/27/10 13:45	08/27/10 18:38	N
20100584	S10V001895	SOLID	EPA-300.7	Distillation	08/26/10 09:15	08/26/10 10:20	08/27/10 13:45	08/27/10 18:21	N
20100584	S10V001915	SOLID	EPA-300.7	Distillation	08/27/10 13:15	08/27/10 14:00	09/02/10 18:00	09/03/10 00:52	N
20100584	S10V001935	SOLID	EPA-300.7	Distillation	08/29/10 08:30	08/29/10 11:47	09/02/10 18:00	09/03/10 02:00	N
20100584	S10V001955	SOLID	EPA-300.7	Distillation	08/29/10 09:35	08/29/10 11:47	09/02/10 18:00	09/03/10 02:17	N
20100584	S10V002039	SOLID	EPA-300.7	Distillation	08/29/10 10:50	08/29/10 11:47	09/02/10 18:00	09/03/10 02:34	N
20100584	S10V002061	SOLID	EPA-300.7	Distillation	08/31/10 09:35	08/31/10 10:45	09/02/10 18:00	09/03/10 02:51	N
20100584	S10V002368	SOLID	EPA-300.7	Distillation	09/01/10 10:15	09/01/10 11:10	09/02/10 18:00	09/03/10 03:43	N
20100584	S10V002514	SOLID	EPA-300.7	Distillation	09/01/10 17:40	09/01/10 22:00	09/02/10 18:00	09/03/10 04:00	N
20100584	S10V002809	SOLID	EPA-300.7	Distillation	09/01/10 21:00	09/01/10 22:00	09/02/10 18:00	09/03/10 04:17	N

Holding Time Report: IC Anions

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100584	S10V001876	SOLID	SW-846 9056A	Water Digest	08/26/10 09:00	08/26/10 10:20	09/07/10 15:54	09/07/10 20:20	N
20100584	S10V001893	SOLID	SW-846 9056A	Water Digest	08/26/10 09:15	08/26/10 10:20	09/07/10 15:54	09/07/10 22:28	N
20100584	S10V001913	SOLID	SW-846 9056A	Water Digest	08/27/10 13:15	08/27/10 14:00	09/07/10 15:54	09/07/10 23:00	N
20100584	S10V001933	SOLID	SW-846 9056A	Water Digest	08/29/10 08:30	08/29/10 11:47	09/07/10 15:54	09/07/10 23:32	N
20100584	S10V001933	SOLID	SW-846 9056A	Water Digest	08/29/10 08:30	08/29/10 11:47	09/07/10 15:54	09/08/10 12:26	N
20100584	S10V001953	SOLID	SW-846 9056A	Water Digest	08/29/10 09:35	08/29/10 11:47	09/07/10 15:54	09/08/10 00:04	N
20100584	S10V001973	SOLID	SW-846 9056A	Water Digest	08/29/10 10:50	08/29/10 11:47	09/07/10 15:54	09/08/10 01:39	N
20100584	S10V002059	SOLID	SW-846 9056A	Water Digest	08/31/10 09:35	08/31/10 10:45	09/07/10 15:54	09/08/10 02:11	N
20100584	S10V002363	SOLID	SW-846 9056A	Water Digest	09/01/10 10:15	09/01/10 11:10	09/07/10 15:54	09/08/10 02:43	N
20100584	S10V002512	SOLID	SW-846 9056A	Water Digest	09/01/10 17:40	09/01/10 22:00	09/07/10 15:54	09/08/10 03:15	N
20100584	S10V002807	SOLID	SW-846 9056A	Water Digest	09/01/10 21:00	09/01/10 22:00	09/07/10 15:54	09/08/10 03:47	N

Holding Time Report: ICP/AES Metals

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V001877	SOLID	SW-846 6010C	SW-846 3050B	08/26/10 09:00	08/26/10 10:20	10/28/10 13:41	N
20100584	S10V001894	SOLID	SW-846 6010C	SW-846 3050B	08/26/10 09:15	08/26/10 10:20	10/28/10 11:03	N
20100584	S10V001914	SOLID	SW-846 6010C	SW-846 3050B	08/27/10 13:15	08/27/10 14:00	10/28/10 13:43	N
20100584	S10V001934	SOLID	SW-846 6010C	SW-846 3050B	08/29/10 08:30	08/29/10 11:47	10/28/10 13:46	N
20100584	S10V001954	SOLID	SW-846 6010C	SW-846 3050B	08/29/10 09:35	08/29/10 11:47	10/28/10 13:49	N
20100584	S10V002038	SOLID	SW-846 6010C	SW-846 3050B	08/29/10 10:50	08/29/10 11:47	10/28/10 13:51	N
20100584	S10V002060	SOLID	SW-846 6010C	SW-846 3050B	08/31/10 09:35	08/31/10 10:45	10/28/10 13:54	N
20100584	S10V002365	SOLID	SW-846 6010C	SW-846 3050B	09/01/10 10:15	09/01/10 11:10	10/28/10 13:57	N
20100584	S10V002513	SOLID	SW-846 6010C	SW-846 3050B	09/01/10 17:40	09/01/10 22:00	10/28/10 14:14	N
20100584	S10V002808	SOLID	SW-846 6010C	SW-846 3050B	09/01/10 21:00	09/01/10 22:00	10/28/10 14:17	N

Holding Time Report: ICP/MS Radiological Isotopes

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V001877	SOLID	MS ACTINIDES	SW-846 3050B	08/26/10 09:00	08/26/10 10:20	10/15/10 18:22	N
20100584	S10V001877	SOLID	MS ACTINIDES	SW-846 3050B	08/26/10 09:00	08/26/10 10:20	10/26/10 19:31	N
20100584	S10V001894	SOLID	MS ACTINIDES	SW-846 3050B	08/26/10 09:15	08/26/10 10:20	10/15/10 18:09	N
20100584	S10V001894	SOLID	MS ACTINIDES	SW-846 3050B	08/26/10 09:15	08/26/10 10:20	11/02/10 19:54	N
20100584	S10V001914	SOLID	MS ACTINIDES	SW-846 3050B	08/27/10 13:15	08/27/10 14:00	10/15/10 18:28	N
20100584	S10V001914	SOLID	MS ACTINIDES	SW-846 3050B	08/27/10 13:15	08/27/10 14:00	10/26/10 19:37	N
20100584	S10V001934	SOLID	MS ACTINIDES	SW-846 3050B	08/29/10 08:30	08/29/10 11:47	10/15/10 18:34	N
20100584	S10V001934	SOLID	MS ACTINIDES	SW-846 3050B	08/29/10 08:30	08/29/10 11:47	10/26/10 19:42	N
20100584	S10V001954	SOLID	MS ACTINIDES	SW-846 3050B	08/29/10 09:35	08/29/10 11:47	10/15/10 18:41	N
20100584	S10V001954	SOLID	MS ACTINIDES	SW-846 3050B	08/29/10 09:35	08/29/10 11:47	10/26/10 19:48	N
20100584	S10V002038	SOLID	MS ACTINIDES	SW-846 3050B	08/29/10 10:50	08/29/10 11:47	10/15/10 18:47	N
20100584	S10V002038	SOLID	MS ACTINIDES	SW-846 3050B	08/29/10 10:50	08/29/10 11:47	10/26/10 19:53	N
20100584	S10V002060	SOLID	MS ACTINIDES	SW-846 3050B	08/31/10 09:35	08/31/10 10:45	10/15/10 19:24	N
20100584	S10V002060	SOLID	MS ACTINIDES	SW-846 3050B	08/31/10 09:35	08/31/10 10:45	10/26/10 20:24	N
20100584	S10V002365	SOLID	MS ACTINIDES	SW-846 3050B	09/01/10 10:15	09/01/10 11:10	10/15/10 19:30	N
20100584	S10V002365	SOLID	MS ACTINIDES	SW-846 3050B	09/01/10 10:15	09/01/10 11:10	10/26/10 20:41	N
20100584	S10V002513	SOLID	MS ACTINIDES	SW-846 3050B	09/01/10 17:40	09/01/10 22:00	10/15/10 19:37	N
20100584	S10V002513	SOLID	MS ACTINIDES	SW-846 3050B	09/01/10 17:40	09/01/10 22:00	10/26/10 20:30	N
20100584	S10V002808	SOLID	MS ACTINIDES	SW-846 3050B	09/01/10 21:00	09/01/10 22:00	10/15/10 19:43	N
20100584	S10V002808	SOLID	MS ACTINIDES	SW-846 3050B	09/01/10 21:00	09/01/10 22:00	10/26/10 20:35	N
20100584	S10V001879	SOLID	MS Tc-99, Sn-126	SW-846 3050B	08/26/10 09:00	08/26/10 10:20	11/04/10 11:49	N
20100584	S10V001896	SOLID	MS Tc-99, Sn-126	SW-846 3050B	08/26/10 09:15	08/26/10 10:20	11/04/10 12:21	N
20100584	S10V001916	SOLID	MS Tc-99, Sn-126	SW-846 3050B	08/27/10 13:15	08/27/10 14:00	11/04/10 11:35	N
20100584	S10V001936	SOLID	MS Tc-99, Sn-126	SW-846 3050B	08/29/10 08:30	08/29/10 11:47	11/04/10 12:28	N
20100584	S10V001956	SOLID	MS Tc-99, Sn-126	SW-846 3050B	08/29/10 09:35	08/29/10 11:47	11/04/10 12:34	N
20100584	S10V002040	SOLID	MS Tc-99, Sn-126	SW-846 3050B	08/29/10 10:50	08/29/10 11:47	11/04/10 12:41	N
20100584	S10V002062	SOLID	MS Tc-99, Sn-126	SW-846 3050B	08/31/10 09:35	08/31/10 10:45	11/04/10 12:48	N
20100584	S10V002370	SOLID	MS Tc-99, Sn-126	SW-846 3050B	09/01/10 10:15	09/01/10 11:10	11/04/10 12:55	N
20100584	S10V002515	SOLID	MS Tc-99, Sn-126	SW-846 3050B	09/01/10 17:40	09/01/10 22:00	11/04/10 13:01	N
20100584	S10V002810	SOLID	MS Tc-99, Sn-126	SW-846 3050B	09/01/10 21:00	09/01/10 22:00	11/04/10 13:08	N

Holding Time Report: ICP/MS Radiological Isotopes

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V001872	SOLID	MS TC-99	WATER DIGES	08/26/10 09:00	08/26/10 10:20	11/08/10 20:36	N
20100584	S10V001889	SOLID	MS TC-99	WATER DIGES	08/26/10 09:15	08/26/10 10:20	11/08/10 19:13	N
20100584	S10V001909	SOLID	MS TC-99	WATER DIGES	08/27/10 13:15	08/27/10 14:00	11/08/10 19:25	N
20100584	S10V001929	SOLID	MS TC-99	WATER DIGES	08/29/10 08:30	08/29/10 11:47	11/08/10 19:31	N
20100584	S10V001949	SOLID	MS TC-99	WATER DIGES	08/29/10 09:35	08/29/10 11:47	11/08/10 19:37	N
20100584	S10V001969	SOLID	MS TC-99	WATER DIGES	08/29/10 10:50	08/29/10 11:47	11/08/10 19:43	N
20100584	S10V002055	SOLID	MS TC-99	WATER DIGES	08/31/10 09:35	08/31/10 10:45	11/08/10 20:12	N
20100584	S10V002075	SOLID	MS TC-99	WATER DIGES	09/01/10 10:15	09/01/10 11:10	11/08/10 20:18	N
20100584	S10V002508	SOLID	MS TC-99	WATER DIGES	09/01/10 17:40	09/01/10 22:00	11/08/10 20:24	N
20100584	S10V002803	SOLID	MS TC-99	WATER DIGES	09/01/10 21:00	09/01/10 22:00	11/08/10 20:30	N

Holding Time Report: ICP/MS Metals

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V001874	SOLID	SW-846 6020A	SW-846 3050B	08/26/10 09:00	08/26/10 10:20	10/14/10 20:06	N
20100584	S10V001877	SOLID	SW-846 6020A	SW-846 3050B	08/26/10 09:00	08/26/10 10:20	11/12/10 15:26	N
20100584	S10V001877	SOLID	SW-846 6020A	SW-846 3050B	08/26/10 09:00	08/26/10 10:20	11/12/10 11:23	N
20100584	S10V001877	SOLID	SW-846 6020A	SW-846 3050B	08/26/10 09:00	08/26/10 10:20	11/10/10 20:51	N
20100584	S10V001891	SOLID	SW-846 6020A	SW-846 3050B	08/26/10 09:15	08/26/10 10:20	10/14/10 20:15	N
20100584	S10V001894	SOLID	SW-846 6020A	SW-846 3050B	08/26/10 09:15	08/26/10 10:20	11/12/10 15:17	N
20100584	S10V001894	SOLID	SW-846 6020A	SW-846 3050B	08/26/10 09:15	08/26/10 10:20	11/12/10 11:12	N
20100584	S10V001894	SOLID	SW-846 6020A	SW-846 3050B	08/26/10 09:15	08/26/10 10:20	11/10/10 20:39	N
20100584	S10V001911	SOLID	SW-846 6020A	SW-846 3050B	08/27/10 13:15	08/27/10 14:00	10/14/10 20:20	N
20100584	S10V001914	SOLID	SW-846 6020A	SW-846 3050B	08/27/10 13:15	08/27/10 14:00	11/12/10 15:30	N
20100584	S10V001914	SOLID	SW-846 6020A	SW-846 3050B	08/27/10 13:15	08/27/10 14:00	11/12/10 11:28	N
20100584	S10V001914	SOLID	SW-846 6020A	SW-846 3050B	08/27/10 13:15	08/27/10 14:00	11/10/10 20:57	N
20100584	S10V001931	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 08:30	08/29/10 11:47	10/14/10 20:25	N
20100584	S10V001934	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 08:30	08/29/10 11:47	11/12/10 15:34	N
20100584	S10V001934	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 08:30	08/29/10 11:47	11/12/10 11:33	N
20100584	S10V001934	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 08:30	08/29/10 11:47	11/10/10 21:03	N
20100584	S10V001951	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 09:35	08/29/10 11:47	10/14/10 20:30	N
20100584	S10V001954	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 09:35	08/29/10 11:47	11/12/10 15:39	N
20100584	S10V001954	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 09:35	08/29/10 11:47	11/12/10 11:39	N
20100584	S10V001954	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 09:35	08/29/10 11:47	11/10/10 21:09	N
20100584	S10V001971	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 10:50	08/29/10 11:47	10/14/10 20:35	N
20100584	S10V002038	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 10:50	08/29/10 11:47	11/12/10 15:43	N
20100584	S10V002038	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 10:50	08/29/10 11:47	11/12/10 11:44	N
20100584	S10V002038	SOLID	SW-846 6020A	SW-846 3050B	08/29/10 10:50	08/29/10 11:47	11/10/10 21:15	N
20100584	S10V002057	SOLID	SW-846 6020A	SW-846 3050B	08/31/10 09:35	08/31/10 10:45	10/14/10 20:53	N
20100584	S10V002060	SOLID	SW-846 6020A	SW-846 3050B	08/31/10 09:35	08/31/10 10:45	11/12/10 15:56	N
20100584	S10V002060	SOLID	SW-846 6020A	SW-846 3050B	08/31/10 09:35	08/31/10 10:45	11/12/10 12:15	N
20100584	S10V002060	SOLID	SW-846 6020A	SW-846 3050B	08/31/10 09:35	08/31/10 10:45	11/10/10 21:45	N
20100584	S10V002077	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 10:15	09/01/10 11:10	10/14/10 20:58	N
20100584	S10V002365	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 10:15	09/01/10 11:10	11/12/10 16:00	N
20100584	S10V002365	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 10:15	09/01/10 11:10	11/12/10 12:20	N

Holding Time Report: ICP/MS Metals

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V002365	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 10:15	09/01/10 11:10	11/10/10 21:51	N
20100584	S10V002510	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 17:40	09/01/10 22:00	10/14/10 21:03	N
20100584	S10V002513	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 17:40	09/01/10 22:00	11/12/10 16:04	N
20100584	S10V002513	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 17:40	09/01/10 22:00	11/12/10 12:25	N
20100584	S10V002513	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 17:40	09/01/10 22:00	11/10/10 21:57	N
20100584	S10V002805	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 21:00	09/01/10 22:00	10/14/10 21:07	N
20100584	S10V002808	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 21:00	09/01/10 22:00	11/12/10 16:09	N
20100584	S10V002808	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 21:00	09/01/10 22:00	11/12/10 12:31	N
20100584	S10V002808	SOLID	SW-846 6020A	SW-846 3050B	09/01/10 21:00	09/01/10 22:00	11/10/10 22:03	N

Holding Time Report: Radiochemistry

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V001880	SOLID	AMERICIUM/CURIUM	ACID DIGEST	08/26/10 09:00	08/26/10 10:20	11/23/10 14:35	N
20100584	S10V001897	SOLID	AMERICIUM/CURIUM	ACID DIGEST	08/26/10 09:15	08/26/10 10:20	11/23/10 14:35	N
20100584	S10V001917	SOLID	AMERICIUM/CURIUM	ACID DIGEST	08/27/10 13:15	08/27/10 14:00	11/23/10 14:35	N
20100584	S10V001937	SOLID	AMERICIUM/CURIUM	ACID DIGEST	08/29/10 08:30	08/29/10 11:47	11/23/10 14:35	N
20100584	S10V001957	SOLID	AMERICIUM/CURIUM	ACID DIGEST	08/29/10 09:35	08/29/10 11:47	11/23/10 14:35	N
20100584	S10V002041	SOLID	AMERICIUM/CURIUM	ACID DIGEST	08/29/10 10:50	08/29/10 11:47	11/23/10 14:35	N
20100584	S10V002063	SOLID	AMERICIUM/CURIUM	ACID DIGEST	08/31/10 09:35	08/31/10 10:45	11/23/10 14:35	N
20100584	S10V002373	SOLID	AMERICIUM/CURIUM	ACID DIGEST	09/01/10 10:15	09/01/10 11:10	11/23/10 14:35	N
20100584	S10V002516	SOLID	AMERICIUM/CURIUM	ACID DIGEST	09/01/10 17:40	09/01/10 22:00	11/23/10 14:35	N
20100584	S10V002811	SOLID	AMERICIUM/CURIUM	ACID DIGEST	09/01/10 21:00	09/01/10 22:00	11/23/10 14:35	N
20100584	S10V001873	SOLID	CARBON-14	WATER DIGEST	08/26/10 09:00	08/26/10 10:20	11/04/10 15:50	N
20100584	S10V001890	SOLID	CARBON-14	WATER DIGEST	08/26/10 09:15	08/26/10 10:20	11/04/10 15:50	N
20100584	S10V001910	SOLID	CARBON-14	WATER DIGEST	08/27/10 13:15	08/27/10 14:00	11/04/10 15:50	N
20100584	S10V001930	SOLID	CARBON-14	WATER DIGEST	08/29/10 08:30	08/29/10 11:47	11/04/10 15:50	N
20100584	S10V001950	SOLID	CARBON-14	WATER DIGEST	08/29/10 09:35	08/29/10 11:47	11/04/10 15:50	N
20100584	S10V001970	SOLID	CARBON-14	WATER DIGEST	08/29/10 10:50	08/29/10 11:47	11/04/10 15:50	N
20100584	S10V002056	SOLID	CARBON-14	WATER DIGEST	08/31/10 09:35	08/31/10 10:45	11/04/10 15:50	N
20100584	S10V002076	SOLID	CARBON-14	WATER DIGEST	09/01/10 10:15	09/01/10 11:10	11/04/10 15:50	N
20100584	S10V002509	SOLID	CARBON-14	WATER DIGEST	09/01/10 17:40	09/01/10 22:00	11/04/10 15:50	N
20100584	S10V002804	SOLID	CARBON-14	WATER DIGEST	09/01/10 21:00	09/01/10 22:00	11/04/10 15:50	N
20100584	S10V001871	SOLID	IODINE-129 in SOIL	FUSION DIGEST	08/26/10 09:00	08/26/10 10:20	11/29/10 10:30	N
20100584	S10V001888	SOLID	IODINE-129 in SOIL	FUSION DIGEST	08/26/2010 09:15	08/26/2010 10:20	11/08/2010 15:00	N
20100584	S10V001908	SOLID	IODINE-129 in SOIL	FUSION DIGEST	08/27/2010 13:15	08/27/2010 14:00	11/08/2010 15:00	N
20100584	S10V001928	SOLID	IODINE-129 in SOIL	FUSION DIGEST	08/29/2010 08:30	08/29/2010 11:47	11/08/2010 15:00	N
20100584	S10V001948	SOLID	IODINE-129 in SOIL	FUSION DIGEST	08/29/2010 09:35	08/29/2010 11:47	11/08/2010 15:00	N
20100584	S10V001968	SOLID	IODINE-129 in SOIL	FUSION DIGEST	08/29/2010 10:50	08/29/2010 11:47	11/08/2010 15:00	N
20100584	S10V002054	SOLID	IODINE-129 in SOIL	FUSION DIGEST	08/31/2010 09:35	08/31/2010 10:45	11/08/2010 15:00	N
20100584	S10V002074	SOLID	IODINE-129 in SOIL	FUSION DIGEST	09/01/2010 10:15	09/01/2010 11:10	11/08/2010 15:00	N
20100584	S10V002507	SOLID	IODINE-129 in SOIL	FUSION DIGEST	09/01/2010 17:40	09/01/2010 22:00	11/09/2010 23:15	N
20100584	S10V002801	SOLID	IODINE-129 in SOIL	FUSION DIGEST	09/01/2010 21:00	09/01/2010 22:00	11/09/2010 23:15	N
20100584	S10V001882	SOLID	NICKEL-63	ACID DIGEST	08/26/10 09:00	08/26/10 10:20	11/23/10 14:40	N

Holding Time Report: Radiochemistry

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V001899	SOLID	NICKEL-63	ACID DIGEST	08/26/10 09:15	08/26/10 10:20	11/23/10 14:40	N
20100584	S10V001919	SOLID	NICKEL-63	ACID DIGEST	08/27/10 13:15	08/27/10 14:00	11/23/10 14:40	N
20100584	S10V001939	SOLID	NICKEL-63	ACID DIGEST	08/29/10 08:30	08/29/10 11:47	11/23/10 14:40	N
20100584	S10V001959	SOLID	NICKEL-63	ACID DIGEST	08/29/10 09:35	08/29/10 11:47	11/23/10 14:40	N
20100584	S10V002043	SOLID	NICKEL-63	ACID DIGEST	08/29/10 10:50	08/29/10 11:47	11/23/10 14:40	N
20100584	S10V002065	SOLID	NICKEL-63	ACID DIGEST	08/31/10 09:35	08/31/10 10:45	11/23/10 14:40	N
20100584	S10V002378	SOLID	NICKEL-63	ACID DIGEST	09/01/10 10:15	09/01/10 11:10	11/23/10 14:40	N
20100584	S10V002518	SOLID	NICKEL-63	ACID DIGEST	09/01/10 17:40	09/01/10 22:00	11/23/10 14:40	N
20100584	S10V002813	SOLID	NICKEL-63	ACID DIGEST	09/01/10 21:00	09/01/10 22:00	11/23/10 14:40	N
20100584	S10V001880	SOLID	PLUTONIUM	ACID DIGEST	08/26/10 09:00	08/26/10 10:20	11/23/10 13:45	N
20100584	S10V001897	SOLID	PLUTONIUM	ACID DIGEST	08/26/10 09:15	08/26/10 10:20	11/23/10 13:45	N
20100584	S10V001917	SOLID	PLUTONIUM	ACID DIGEST	08/27/10 13:15	08/27/10 14:00	11/23/10 13:45	N
20100584	S10V001937	SOLID	PLUTONIUM	ACID DIGEST	08/29/10 08:30	08/29/10 11:47	11/23/10 13:45	N
20100584	S10V001957	SOLID	PLUTONIUM	ACID DIGEST	08/29/10 09:35	08/29/10 11:47	11/23/10 13:45	N
20100584	S10V002041	SOLID	PLUTONIUM	ACID DIGEST	08/29/10 10:50	08/29/10 11:47	11/23/10 13:45	N
20100584	S10V002063	SOLID	PLUTONIUM	ACID DIGEST	08/31/10 09:35	08/31/10 10:45	11/23/10 13:45	N
20100584	S10V002373	SOLID	PLUTONIUM	ACID DIGEST	09/01/10 10:15	09/01/10 11:10	11/23/10 13:45	N
20100584	S10V002516	SOLID	PLUTONIUM	ACID DIGEST	09/01/10 17:40	09/01/10 22:00	11/23/10 13:45	N
20100584	S10V002811	SOLID	PLUTONIUM	ACID DIGEST	09/01/10 21:00	09/01/10 22:00	11/23/10 13:45	N
20100584	S10V001882	SOLID	SELENIUM-79	ACID DIGEST	08/26/10 09:00	08/26/10 10:20	11/17/10 15:50	N
20100584	S10V001899	SOLID	SELENIUM-79	ACID DIGEST	08/26/10 09:15	08/26/10 10:20	11/17/10 15:50	N
20100584	S10V001919	SOLID	SELENIUM-79	ACID DIGEST	08/27/10 13:15	08/27/10 14:00	11/17/10 15:50	N
20100584	S10V001939	SOLID	SELENIUM-79	ACID DIGEST	08/29/10 08:30	08/29/10 11:47	11/17/10 15:50	N
20100584	S10V001959	SOLID	SELENIUM-79	ACID DIGEST	08/29/10 09:35	08/29/10 11:47	11/17/10 15:50	N
20100584	S10V002043	SOLID	SELENIUM-79	ACID DIGEST	08/29/10 10:50	08/29/10 11:47	11/17/10 15:50	N
20100584	S10V002065	SOLID	SELENIUM-79	ACID DIGEST	08/31/10 09:35	08/31/10 10:45	11/17/10 15:50	N
20100584	S10V002378	SOLID	SELENIUM-79	ACID DIGEST	09/01/10 10:15	09/01/10 11:10	11/17/10 15:50	N
20100584	S10V002518	SOLID	SELENIUM-79	ACID DIGEST	09/01/10 17:40	09/01/10 22:00	11/17/10 15:50	N
20100584	S10V002813	SOLID	SELENIUM-79	ACID DIGEST	09/01/10 21:00	09/01/10 22:00	11/17/10 15:50	N
20100584	S10V001881	SOLID	STRONTIUM-89/90	ACID DIGEST	08/26/10 09:00	08/26/10 10:20	11/23/10 13:50	N
20100584	S10V001898	SOLID	STRONTIUM-89/90	ACID DIGEST	08/26/10 09:15	08/26/10 10:20	11/23/10 13:50	N

Holding Time Report: Radiochemistry

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V001918	SOLID	STRONTIUM-89/90	ACID DIGEST	08/27/10 13:15	08/27/10 14:00	11/23/10 13:50	N
20100584	S10V001938	SOLID	STRONTIUM-89/90	ACID DIGEST	08/29/10 08:30	08/29/10 11:47	11/23/10 13:50	N
20100584	S10V001958	SOLID	STRONTIUM-89/90	ACID DIGEST	08/29/10 09:35	08/29/10 11:47	11/23/10 13:50	N
20100584	S10V002042	SOLID	STRONTIUM-89/90	ACID DIGEST	08/29/10 10:50	08/29/10 11:47	11/23/10 13:50	N
20100584	S10V002064	SOLID	STRONTIUM-89/90	ACID DIGEST	08/31/10 09:35	08/31/10 10:45	11/23/10 13:50	N
20100584	S10V002376	SOLID	STRONTIUM-89/90	ACID DIGEST	09/01/10 10:15	09/01/10 11:10	11/23/10 13:50	N
20100584	S10V002517	SOLID	STRONTIUM-89/90	ACID DIGEST	09/01/10 17:40	09/01/10 22:00	11/23/10 13:50	N
20100584	S10V002812	SOLID	STRONTIUM-89/90	ACID DIGEST	09/01/10 21:00	09/01/10 22:00	11/23/10 13:50	N
20100584	S10V001873	SOLID	TRITIUM	WATER DIGEST	08/26/10 09:00	08/26/10 10:20	12/03/10 13:30	N
20100584	S10V001890	SOLID	TRITIUM	WATER DIGEST	08/26/10 09:15	08/26/10 10:20	12/03/10 13:30	N
20100584	S10V001910	SOLID	TRITIUM	WATER DIGEST	08/27/10 13:15	08/27/10 14:00	12/03/10 13:30	N
20100584	S10V001930	SOLID	TRITIUM	WATER DIGEST	08/29/10 08:30	08/29/10 11:47	12/03/10 13:30	N
20100584	S10V001950	SOLID	TRITIUM	WATER DIGEST	08/29/10 09:35	08/29/10 11:47	12/03/10 13:30	N
20100584	S10V001970	SOLID	TRITIUM	WATER DIGEST	08/29/10 10:50	08/29/10 11:47	12/03/10 13:30	N
20100584	S10V002056	SOLID	TRITIUM	WATER DIGEST	08/31/10 09:35	08/31/10 10:45	12/03/10 13:30	N
20100584	S10V002076	SOLID	TRITIUM	WATER DIGEST	09/01/10 10:15	09/01/10 11:10	12/03/10 13:30	N
20100584	S10V002509	SOLID	TRITIUM	WATER DIGEST	09/01/10 17:40	09/01/10 22:00	12/03/10 13:30	N
20100584	S10V002804	SOLID	TRITIUM	WATER DIGEST	09/01/10 21:00	09/01/10 22:00	12/03/10 13:30	N

Holding Time Report: GC/MS SVOA

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100584	S10V001875	SOLID	SW-846-8270D	SW-846 3540C	08/26/10 09:00	08/26/10 10:20	08/28/10 17:00	09/02/10 13:30	N
20100584	S10V001892	SOLID	SW-846-8270D	SW-846 3540C	08/26/10 09:15	08/26/10 10:20	08/28/10 17:00	09/02/10 15:52	N
20100584	S10V001912	SOLID	SW-846-8270D	SW-846 3540C	08/27/10 13:15	08/27/10 14:00	09/07/10 16:02	09/13/10 17:16	N
20100584	S10V001932	SOLID	SW-846-8270D	SW-846 3540C	08/29/10 08:30	08/29/10 11:47	09/07/10 16:02	09/13/10 18:03	N
20100584	S10V001952	SOLID	SW-846-8270D	SW-846 3540C	08/29/10 09:35	08/29/10 11:47	09/07/10 16:02	09/13/10 18:50	N
20100584	S10V001972	SOLID	SW-846-8270D	SW-846 3540C	08/29/10 10:50	08/29/10 11:47	09/07/10 16:02	09/13/10 19:38	N
20100584	S10V002058	SOLID	SW-846-8270D	SW-846 3540C	08/31/10 09:35	08/31/10 10:45	09/07/10 16:02	09/13/10 22:01	N
20100584	S10V002359	SOLID	SW-846-8270D	SW-846 3540C	09/01/10 10:15	09/01/10 11:10	09/13/10 16:05	09/27/10 18:15	N
20100584	S10V002511	SOLID	SW-846-8270D	SW-846 3540C	09/01/10 17:40	09/01/10 22:00	09/13/10 16:05	09/27/10 19:02	N
20100584	S10V002806	SOLID	SW-846-8270D	SW-846 3540C	09/01/10 21:00	09/01/10 22:00	09/13/10 16:05	09/27/10 15:53	N

Holding Time Report: GC/MS VOA

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100584	S10V001866	SOLID	SW846-8260C	SW-846 5035A	08/26/10 09:00	08/26/10 10:20	08/27/10 17:44	N
20100584	S10V001883	SOLID	SW846-8260C	SW-846 5035A	08/26/10 09:15	08/26/10 10:20	08/27/10 19:12	N
20100584	S10V001900	SOLID	SW846-8260C	SW-846 5035A	08/27/10 13:15	08/27/10 14:37	09/01/10 14:17	N
20100584	S10V001920	SOLID	SW846-8260C	SW-846 5035A	08/29/10 08:30	08/29/10 11:47	09/01/10 15:47	N
20100584	S10V001940	SOLID	SW846-8260C	SW-846 5035A	08/29/10 09:35	08/29/10 11:47	09/01/10 16:16	N
20100584	S10V001960	SOLID	SW846-8260C	SW-846 5035A	08/29/10 10:50	08/29/10 11:47	09/01/10 16:45	N
20100584	S10V002044	SOLID	SW846-8260C	SW-846 5035A	08/31/10 09:35	08/31/10 10:45	09/01/10 17:15	N
20100584	S10V002066	SOLID	SW846-8260C	SW-846 5035A	09/01/10 10:15	09/01/10 11:10	09/01/10 17:45	N
20100584	S10V002499	SOLID	SW846-8260C	SW-846 5035A	09/01/10 17:40	09/01/10 22:00	09/02/10 17:38	N
20100584	S10V002794	SOLID	SW846-8260C	SW-846 5035A	09/01/10 21:00	09/01/10 22:00	09/02/10 19:07	N
20100583	S10V001856	LIQUID	SW846-8260C	SW846-5030C	08/26/10 08:45	08/26/10 10:20	08/27/10 15:15	N
20100583	S10V001846	LIQUID	SW846-8260C	SW846-5030C	08/26/10 09:15	08/26/10 10:20	08/27/10 16:44	N
20100583	S10V001865	LIQUID	SW846-8260C	SW846-5030C	08/27/10 12:30	08/27/10 14:00	08/31/10 18:39	N
20100583	S10V001855	LIQUID	SW846-8260C	SW846-5030C	08/27/10 12:45	08/27/10 14:00	08/31/10 17:10	N
20100583	S10V001857	LIQUID	SW846-8260C	SW846-5030C	08/29/10 07:45	08/29/10 11:47	08/31/10 17:39	N
20100583	S10V001847	LIQUID	SW846-8260C	SW846-5030C	08/29/10 07:50	08/29/10 11:47	08/31/10 14:12	N
20100583	S10V001848	LIQUID	SW846-8260C	SW846-5030C	08/29/10 08:55	08/29/10 12:29	08/31/10 15:41	N
20100583	S10V001849	LIQUID	SW846-8260C	SW846-5030C	08/29/10 10:10	08/29/10 12:31	08/31/10 16:11	N
20100583	S10V001858	LIQUID	SW846-8260C	SW846-5030C	08/31/10 08:35	08/31/10 10:45	09/09/10 16:06	N
20100583	S10V001850	LIQUID	SW846-8260C	SW846-5030C	08/31/10 08:45	08/31/10 10:45	08/31/10 16:40	N
20100583	S10V001859	LIQUID	SW846-8260C	SW846-5030C	09/01/10 09:00	09/01/10 11:10	09/02/10 16:39	N
20100583	S10V001851	LIQUID	SW846-8260C	SW846-5030C	09/01/10 09:15	09/01/10 11:10	09/02/10 14:10	N
20100583	S10V001860	LIQUID	SW846-8260C	SW846-5030C	09/01/10 16:55	09/01/10 22:00	09/02/10 17:08	N
20100583	S10V001852	LIQUID	SW846-8260C	SW846-5030C	09/01/10 17:10	09/01/10 22:00	09/02/10 15:39	N
20100583	S10V001853	LIQUID	SW846-8260C	SW846-5030C	09/01/10 20:00	09/01/10 22:00	09/02/10 16:09	N

Attachment 4

ADDITIONAL QC RESULTS

1/27/11 17:30

HG Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2010-2

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B26JK8	S10V001869	Mercury	91.4	91.6	75	125	0.241	20

VOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2010-2

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B26C27	S10V001900	1,1-Dichloroethene	91.5	92.3	67	129	0.904	30
		1-Butanol	110	82.3	68	143	28.7	30
		2-Butanone	108	108	56	143	0.648	30
		4-Methyl-2-pentanone	114	123	59	151	7.16	30
		Acetone	103	101	66	134	2.61	30
		Benzene	96.1	101	78	122	4.71	30
		Chlorobenzene	98.7	103	80	121	4.24	30
		Toluene	95.9	102	88	124	5.88	30
		Trichloroethene	98.0	99.4	77	119	1.47	30
B26C39	S10V002499	1,1-Dichloroethene	96.9	104	67	129	7.01	30
		1-Butanol	108	110	68	143	2.02	30
		2-Butanone	123	122	56	143	0.531	30
		4-Methyl-2-pentanone	132	132	59	151	0.492	30
		Acetone	123	131	66	134	6.31	30
		Benzene	97.7	102	78	122	3.81	30
		Chlorobenzene	98.6	104	80	121	5.65	30
		Toluene	96.4	99.0	88	124	2.71	30
		Trichloroethene	96.1	100	77	119	4.36	30
B26CV1	S10V001856	1,1-Dichloroethene	102	98.1	62	151	3.91	30
		1-Butanol	99.6	98.9	73	140	0.762	30
		2-Butanone	86.9	90.7	60	146	4.27	30
		2-Hexanone	91.2	96.2			5.32	30
		4-Methyl-2-pentanone	92.3	97.8	75	137	5.82	30
		Acetone	86.5	83.4	55	139	3.69	30
		Benzene	98.1	99.8	86	120	1.75	30
		Chlorobenzene	97.3	97.7	88	113	0.323	30
		Toluene	97.4	100	83	118	2.81	30
		Trichloroethene	96.7	98.9	71	128	2.27	30
B26CW4	S10V001847	1,1-Dichloroethene	95.6	96.3	62	151	0.769	30
		1-Butanol	105	101	73	140	4.29	30
		2-Butanone	93.1	92.3	60	146	0.907	30
		4-Methyl-2-pentanone	93.8	95.1	75	137	1.37	30
		Acetone	91.1	92.7	55	139	1.72	30
		Benzene	100	104	86	120	3.45	30
		Chlorobenzene	96.6	99.2	88	113	2.69	30
		Toluene	97.3	100	83	118	2.84	30
		Trichloroethene	100	104	71	128	3.38	30
B26CW8	S10V001851	1,1-Dichloroethene	87.7	85.6	62	151	2.40	30
		1-Butanol	107	106	73	140	1.04	30
		2-Butanone	98.5	93.0	60	146	5.73	30
		4-Methyl-2-pentanone	106	98.8	75	137	7.30	30
		Acetone	89.6	88.7	55	139	0.965	30

VOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2010-2

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B26CW8	S10V001851	Benzene	94.3	93.2	86	120	1.18	30
		Chlorobenzene	98.4	98.1	88	113	0.275	30
		Toluene	98.5	96.3	83	118	2.32	30
		Trichloroethene	94.4	94.7	71	128	0.286	30
B26JL8	S10V001866	1,1-Dichloroethene	106	106	67	129	0.227	30
		1-Butanol	95.8	98.5	68	143	2.70	30
		2-Butanone	124	133	56	143	7.10	30
		4-Methyl-2-pentanone	138	145	59	151	5.13	30
		Acetone	121	123	66	134	1.84	30
		Benzene	104	107	78	122	2.51	30
		Chlorobenzene	101	98.6	80	121	2.70	30
		Toluene	102	99.9	88	124	1.76	30
		Trichloroethene	99.8	101	77	119	0.916	30

SVOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2010-2

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B26C32	S10V001972	1,2,4-Trichlorobenzene	53.4	49.1	2	128	8.23	30
		2,4-Dinitrotoluene	77.4	72.9	55	111	6.01	30
		2-Chlorophenol	61.1	56.9	28	111	7.09	30
		4-Chloro-3-methylphenol	59.2	56.6	42	103	4.56	30
		Acenaphthene	63.8	58.5	36	114	8.60	30
		N-Nitrosodipropylamine	57.5	53.6	18	108	7.07	30
		Pyrene	73.0	71.6	64	113	1.98	30
B26C40	S10V002806	1,2,4-Trichlorobenzene	75.2	74.0	2	128	1.65	30
		2,4-Dinitrotoluene	115	114	55	111	0.463	30
		2-Chlorophenol	80.5	78.5	28	111	2.57	30
		4-Chloro-3-methylphenol	99.9	93.5	42	103	6.58	30
		Acenaphthene	97.1	95.2	36	114	1.99	30
		N-Nitrosodipropylamine	74.8	73.9	18	108	1.11	30
		Pyrene	110	107	64	113	3.03	30
B26JK8	S10V001875	1,2,4-Trichlorobenzene	51.2	56.1	2	128	9.21	30
		2,4-Dinitrotoluene	81.2	86.1	55	111	5.84	30
		2-Chlorophenol	55.3	60.4	28	111	8.77	30
		4-Chloro-3-methylphenol	56.8	60.2	42	103	5.86	30
		Acenaphthene	63.7	68.2	36	114	6.79	30
		N-Nitrosodipropylamine	53.7	59.5	18	108	10.3	30
		Pyrene	80.8	86.3	64	113	6.51	30

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

21718

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB	103	100	104	102	0
02	LCS	105	109	104	100	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER(BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	S10V002249	101	101	98	96	0
02	S10V002256	105	102	103	101	0
03	S10V001856	103	101	96	95	0
04	S10V001856MS	105	102	101	98	0
05	S10V001856MS	104	103	102	99	0
06	S10V001846	101	100	96	100	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

page 1 of 1 FORM II VOA

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: 222-S Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

Matrix Spike - Sample No.: LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	11.111		11.028	99	62-151
Acetone	55.556		42.738	77	55-139
2-Butanone	55.556		46.490	84	60-146
n-Butanol	111.11		103.16	93	73-140
Benzene	11.111		11.068	100	86-120
Trichloroethene	11.111		11.093	100	71-128
Methyl Isobutyl Ketone	55.556		50.740	91	75-137
Toluene	11.111		11.375	102	83-118
2-Hexanone	55.556		50.674	91	71-141
Chlorobenzene	11.111		11.236	101	88-113

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA

21719

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	CCB	108	111	105	107	0
02	LCS	109	114	105	105	0
03						
04						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(77-129)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(73-140)
SMC3 (TOL)	= Toluene-d8	(70-126)
OTHER(BFB)	= Bromofluorobenzene	(79-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	S10V002480	108	112	101	101	0
02	S10V001866	108	115	102	105	0
03	S10V001866MS	113	118	103	104	0
04	S10V001866MS	115	123	104	105	0
05	S10V001883	116	120	100	106	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(74-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(78-133)
SMC3 (TOL)	= Toluene-d8	(74-128)
OTHER(BFB)	= Bromofluorobenzene	(64-144)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

Matrix Spike - Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	20.000		20.767	104	66-141
Acetone	100.00		107.57	108	58-135
2-Butanone	100.00		109.51	110	50-149
n-Butanol	200.00		234.26	117	53-148
Benzene	20.000		20.558	103	70-126
Trichloroethene	20.000		20.963	105	71-127
Methyl Isobutyl Ketone	100.00		114.59	114	61-145
Toluene	20.000		20.522	103	71-125
2-Hexanone	100.00		116.72	117	59-148
Chlorobenzene	20.000		20.725	104	81-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA

21786

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100831CFRMVOA

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB	113	111	108	104	0
02	LCS	109	107	102	98	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER (BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100831CFRMVOA

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V001847	111	108	103	96	0
02	S10V001847MS	109	104	99	98	0
03	S10V001847MS	111	106	101	99	0
04	S10V001848	117	116	104	96	0
05	S10V001849	112	112	102	96	0
06	S10V001850	115	118	102	96	0
07	S10V001855	116	118	102	95	0
08	S10V001857	119	113	103	96	0
09	S10V001865	122	122	102	95	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER (BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10083106LCSL.D
Report Date: 04-Jan-2011 08:50

WSCF

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_LIQ.spk
Sublist File: 2009QC.sub
Method File: \\apwscf02\slab\chem\Ohura.i\data\V100831Farm.b\8260S100803.m
Misc Info: VOA CFarm WMC 2010-2, Grp 20100583

Client SDG: 100831CFRMvoa
Fraction: VOA
Client Smp ID: LCS
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 1,1-Dichloroethene	10.000	9.749	97.49	77-136
19 Acetone	50.000	42.470	84.94	61-136
38 2-Butanone	50.000	43.158	86.32	70-130
41 Benzene	10.000	10.134	101.35	87-120
47 Trichloroethene	10.000	10.263	102.63	82-122
49 n-Butanol	100.00	94.561	94.56	61-143
59 Toluene	10.000	9.888	98.88	87-119
60 Methyl Isobutyl Ke	50.000	46.214	92.43	81-127
68 2-Hexanone	50.000	45.388	90.78	76-134
72 Chlorobenzene	10.000	9.932	99.32	88-119

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	10.000	10.925	109.25	85-123
$ 43 1,2-Dichloroethane	10.000	10.715	107.15	83-123
$ 57 Toluene-d8	10.000	10.206	102.06	82-121
$ 79 Bromofluorobenzene	10.000	9.849	98.49	82-126

21922

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100902_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	CCB	109	112	108	101	0
02	LCS	105	107	100	100	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER(BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100902_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	S10V001851	108	110	99	97	0
02	S10V001851MS	104	106	100	96	0
03	S10V001851MS	104	103	98	94	0
04	S10V001852	108	106	97	98	0
05	S10V001853	110	110	102	99	0
06	S10V001859	112	109	104	100	0
07	S10V001860	110	108	103	96	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: 222-S Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100902_CFARM

Matrix Spike - Sample No.: LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	11.111		9.870	89	77-136
Acetone	55.556		47.774	86	61-136
2-Butanone	55.556		49.379	89	70-130
n-Butanol	111.11		112.80	102	61-143
Benzene	11.111		10.770	97	87-120
Trichloroethene	11.111		10.688	96	82-122
Methyl Isobutyl Ketone	55.556		53.721	97	81-127
Toluene	11.111		11.007	99	87-119
2-Hexanone	55.556		53.370	96	76-134
Chlorobenzene	11.111		10.852	98	88-119

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA

21979

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100902_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB	120	120	112	110	0
02	LCSS	108	113	102	105	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(77-129)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(73-140)
SMC3 (TOL)	= Toluene-d8	(70-126)
OTHER (BFB)	= Bromofluorobenzene	(79-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100902_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V002499	120	117	104	101	0
02	S10V002499MS	110	112	97	98	0
03	S10V002499MS	113	115	101	102	0
04	S10V002794	115	116	101	106	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(74-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(78-133)
SMC3 (TOL)	= Toluene-d8	(74-128)
OTHER (BFB)	= Bromofluorobenzene	(64-144)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100902_CFARM

Matrix Spike - Sample No.: LCSS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	20.000		18.399	92	66-141
Acetone	100.00		108.48	108	58-135
2-Butanone	100.00		112.80	113	50-149
n-Butanol	200.00		232.67	116	53-148
Benzene	20.000		19.630	98	70-126
Trichloroethene	20.000		19.707	98	71-127
Methyl Isobutyl Ketone	100.00		124.01	124	61-145
Toluene	20.000		20.219	101	71-125
2-Hexanone	100.00		125.48	125	59-148
Chlorobenzene	20.000		20.585	103	81-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III VOA

24659

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100909CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB	113	111	106	99	0
02	LCS	109	111	103	99	0
03						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER (BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100909CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	S10V001858	111	110	104	104	0
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
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30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Data File: 10090906LCS.D
Report Date: 30-Dec-2010 14:23

WSCF

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_LIQ.spk
Sublist File: 2009QC.sub
Method File: \\apwscf02\slab\chem\Ohura.i\data\V100909CFarm.b\8260S100803.m
Misc Info: VOA

Client SDG: 100909CFarm
Fraction: VOA
Client Smp ID: LCS
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 1,1-Dichloroethene	10.000	11.702	117.02	77-136
19 Acetone	50.000	47.254	94.51	61-136
38 2-Butanone	50.000	47.661	95.32	70-130
41 Benzene	10.000	10.935	109.35	87-120
47 Trichloroethene	10.000	10.990	109.90	82-122
49 n-Butanol	100.00	91.966	91.97	61-143
59 Toluene	10.000	10.614	106.14	87-119
60 Methyl Isobutyl Ke	50.000	51.207	102.41	81-127
68 2-Hexanone	50.000	50.076	100.15	76-134
72 Chlorobenzene	10.000	10.432	104.32	88-119

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	10.000	10.937	109.37	85-123
$ 43 1,2-Dichloroethane	10.000	11.109	111.09	83-123
$ 57 Toluene-d8	10.000	10.274	102.74	82-121
$ 79 Bromofluorobenzene	10.000	9.925	99.25	82-126

22043

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMCG

Level:(low/med) LOW

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	70	61	63	67	80	90			0
02	LCS	70	59	62	66	90	91			0
03	S10V001875	59	47	52	54	66	82			0
04	S10V001875MS	63	57	56	63	83	96			0
05	S10V001875MS	70	62	64	70	87	104			0
06	S10V001892	60	47	51	54	74	84			0
07										
08										
09										
10										
11										
12										
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30										

			QC LIMITS
S1	(FBP)	= 2-Fluorobiphenyl	(10-147)
S2	(2FP)	= 2-Fluorophenol	(0-127)
S3	(NBZ)	= Nitrobenzene-d5	(0-125)
S4		= Phenol-d6	(37-125)
S5	(TBP)	= 2,4,6-Tribromophenol	(40-176)
S6	(TPH)	= Terphenyl-d14	(71-175)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMCG

Matrix Spike - CHG Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	2000.0		1089.4	54	2-128
2,4-Dinitrotoluene	2000.0		1664.2	83	55-111
Acenaphthene	2000.0		1349.1	67	36-114
4-Chloro-3-Methylphenol	4000.0		2495.2	62	42-103
2-Chlorophenol	4000.0		2365.4	59	28-111
N-Nitroso-di-n-prop.(1)	2000.0		1185.7	59	18-108
Pyrene	2000.0		1496.7	75	64-113

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 7 outside limits

COMMENTS: _____

FORM III SV

22217

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMCK

Level:(low/med) LOW

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	85	75	75	78	111	95			0
02	LCS	89	80	80	84	111	106			0
03	S10V002806	87	74	75	80	121	110			0
04	S10V002806MS	90	78	78	83	121	108			0
05	S10V002806MS	89	76	77	82	117	109			0
06	S10V002359	89	77	76	83	121	104			0
07	S10V002511	110	96	98	102	140	116			0
08										
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(10-147)
S2 (2FP)	= 2-Fluorophenol	(0-127)
S3 (NBZ)	= Nitrobenzene-d5	(0-125)
S4	= Phenol-d6	(37-125)
S5 (TBP)	= 2,4,6-Tribromophenol	(40-176)
S6 (TPH)	= Terphenyl-d14	(71-175)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMCK

Matrix Spike - CHG Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	2000.0		1542.9	77	2-128
2,4-Dinitrotoluene	2000.0		2155.8	108	55-111
Acenaphthene	2000.0		1853.4	93	36-114
4-Chloro-3-Methylphenol	4000.0		3422.4	86	42-103
2-Chlorophenol	4000.0		3301.0	82	28-111
N-Nitroso-di-n-prop.(1)	2000.0		1501.6	75	18-108
Pyrene	2000.0		2109.3	105	64-113

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 7 outside limits

COMMENTS: _____

FORM III SV

22254

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMCH

Level:(low/med) LOW

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	70	66	62	70	71	97			0
02	LCS	72	70	70	75	80	99			0
03	S10V002491	63	60	58	65	76	86			0
04	S10V002491MS	70	70	65	74	86	87			0
05	S10V002491MS	70	70	66	75	88	93			0
06	S10V001912	63	60	58	65	78	86			0
07	S10V001932	64	61	61	66	77	96			0
08	S10V001952	74	78	66	83	82	102			0
09	S10V001972	63	61	60	66	72	78			0
10	S10V001972MS	60	63	57	68	79	83			0
11	S10V001972MS	58	56	54	62	74	82			0
12	S10V002058	58	57	50	63	71	87			0
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30										

		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(10-147)
S2 (2FP)	= 2-Fluorophenol	(0-127)
S3 (NBZ)	= Nitrobenzene-d5	(0-125)
S4	= Phenol-d6	(37-125)
S5 (TBP)	= 2,4,6-Tribromophenol	(40-176)
S6 (TPH)	= Terphenyl-d14	(71-175)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMCH

Matrix Spike - CHG Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	2000.0		1201.1	60	2-128
2,4-Dinitrotoluene	2000.0		1555.3	78	55-111
Acenaphthene	2000.0		1359.2	68	36-114
4-Chloro-3-Methylphenol	4000.0		2507.5	63	42-103
2-Chlorophenol	4000.0		2720.4	68	28-111
N-Nitroso-di-n-prop.(1)	2000.0		1275.4	64	18-108
Pyrene	2000.0		1726.5	86	64-113

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 7 outside limits

COMMENTS: _____

FORM III SV

Attachment 5

TICs FOR ORGANIC ANALYSES

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26JL8

Sample Depth: Surface

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V001866				Unknown-1		16.83	ug/kg	5.4	J

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C31

Sample Depth: 14-16

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V001940				Unknown Hydrocarbon 1-1		13.32	ug/kg	6.3	J
S10V001940				Unknown-2		14.26	ug/kg	2.4	J
S10V001940				Unknown Hydrocarbon 2-3		16.35	ug/kg	8.5	J
S10V001940				Unknown Hydrocarbon 3-4		18.70	ug/kg	8.1	J

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C33

Sample Depth: 17-19

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V001960				Unknown Hydrocarbon 1-1		13.32	ug/kg	5.5	J
S10V001960				Unknown Hydrocarbon 2-2		16.35	ug/kg	7.8	J
S10V001960				Unknown Hydrocarbon 3-3		18.70	ug/kg	6.3	J

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C35

Sample Depth: 43-45

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002044				Unknown-1		17.84	ug/kg	2.2	J

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C37

Sample Depth: 92-94

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002066				Unknown-1		14.26	ug/kg	4.2	J
S10V002066				Unknown-2		15.59	ug/kg	2.5	J
S10V002066				Unknown-3		16.83	ug/kg	2.3	J

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C39

Sample Depth: 116-118

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002499				Unknown-1		5.17	ug/kg	2.1	J
S10V002499				Unknown-2		17.03	ug/kg	2.6	J

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C41

Sample Depth: 142-144

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002794				Unknown-1		16.83	ug/kg	4.1	J
S10V002794				Unknown-2		17.96	ug/kg	2.7	J

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26JK8

Sample Depth: Surface

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V001875		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	510	BJN
S10V001875		O		Unknown-1		15.67	ug/kg	290	J
S10V001875		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	550	

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26JK9

Sample Depth: Surface Dup

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V001892		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	740	BJN
S10V001892		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	550	

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C26

Sample Depth: 5-7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V001912		O		Unknown-1		2.94	ug/kg	210	BJ
S10V001912		O		Amylene Hydrate	75-85-4	3.08	ug/kg	210	BJN
S10V001912		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	230	BJN
S10V001912		O	BLNK	Unknown-1		2.63	ug/kg	350	
S10V001912		O	BLNK	Unknown-2		2.95	ug/kg	280	
S10V001912		O	BLNK	Amylene Hydrate	75-85-4	3.10	ug/kg	240	
S10V001912		O	BLNK	Unknown-3		12.32	ug/kg	630	
S10V001912		O	BLNK	Unknown-4		12.36	ug/kg	330	
S10V001912		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	320	

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C28

Sample Depth: 10-12

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V001932		O		Amylene Hydrate	75-85-4	3.08	ug/kg	230	BJN
S10V001932		O		Unknown-1		12.33	ug/kg	940	BJ
S10V001932		O		Unknown-2		12.37	ug/kg	560	BJ
S10V001932		O	BLNK	Unknown-1		2.63	ug/kg	350	
S10V001932		O	BLNK	Unknown-2		2.95	ug/kg	280	
S10V001932		O	BLNK	Amylene Hydrate	75-85-4	3.10	ug/kg	240	
S10V001932		O	BLNK	Unknown-3		12.32	ug/kg	630	
S10V001932		O	BLNK	Unknown-4		12.36	ug/kg	330	
S10V001932		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	320	

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C30

Sample Depth: 14-16

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V001952		O		Unknown-1		2.94	ug/kg	260	BJ
S10V001952		O		Amylene Hydrate	75-85-4	3.08	ug/kg	260	BJN
S10V001952		O		Unknown-2		12.32	ug/kg	790	BJ
S10V001952		O		Unknown-3		12.36	ug/kg	450	BJ
S10V001952		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	230	BJN
S10V001952		O	BLNK	Unknown-1		2.63	ug/kg	350	
S10V001952		O	BLNK	Unknown-2		2.95	ug/kg	280	
S10V001952		O	BLNK	Amylene Hydrate	75-85-4	3.10	ug/kg	240	
S10V001952		O	BLNK	Unknown-3		12.32	ug/kg	630	
S10V001952		O	BLNK	Unknown-4		12.36	ug/kg	330	
S10V001952		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	320	

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C32

Sample Depth: 17-19

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V001972		O		Unknown-1		2.94	ug/kg	240	BJ
S10V001972		O		Unknown-2		3.08	ug/kg	240	J
S10V001972		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	180	BJN
S10V001972		O	BLNK	Unknown-1		2.63	ug/kg	350	
S10V001972		O	BLNK	Unknown-2		2.95	ug/kg	280	
S10V001972		O	BLNK	Amylene Hydrate	75-85-4	3.10	ug/kg	240	
S10V001972		O	BLNK	Unknown-3		12.32	ug/kg	630	
S10V001972		O	BLNK	Unknown-4		12.36	ug/kg	330	
S10V001972		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	320	

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C34

Sample Depth: 43-45

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002058		O		Unknown-1		2.94	ug/kg	220	BJ
S10V002058		O		Amylene Hydrate	75-85-4	3.09	ug/kg	220	BJN
S10V002058		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	400	BJN
S10V002058		O	BLNK	Unknown-1		2.63	ug/kg	350	
S10V002058		O	BLNK	Unknown-2		2.95	ug/kg	280	
S10V002058		O	BLNK	Amylene Hydrate	75-85-4	3.10	ug/kg	240	
S10V002058		O	BLNK	Unknown-3		12.32	ug/kg	630	
S10V002058		O	BLNK	Unknown-4		12.36	ug/kg	330	
S10V002058		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	320	

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
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J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C36

Sample Depth: 92-94

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002359		O		Unknown-1		12.22	ug/kg	570	BJ
S10V002359		O		Unknown-2		12.26	ug/kg	420	BJ
S10V002359		O		1,2-Benzenedicarboxyli	84-69-5	14.90	ug/kg	710	BJN
S10V002359		O		Unknown Hydrocarbon-3		19.97	ug/kg	220	J
S10V002359		O		Unknown Hydrocarbon-4		20.61	ug/kg	330	J
S10V002359		O		Unknown Hydrocarbon-5		21.30	ug/kg	310	J
S10V002359		O		Unknown Hydrocarbon-6		22.08	ug/kg	240	J
S10V002359		O	BLNK	Unknown-1		12.22	ug/kg	820	
S10V002359		O	BLNK	Unknown-2		12.26	ug/kg	640	
S10V002359		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.90	ug/kg	610	

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
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J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C38

Sample Depth: 116-118

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002511		O		Unknown-1		12.22	ug/kg	390	BJ
S10V002511		O		Unknown-2		12.26	ug/kg	320	BJ
S10V002511		O		1,2-Benzenedicarboxyli	84-69-5	14.90	ug/kg	980	BJN
S10V002511		O		Unknown Hydrocarbon-3		17.65	ug/kg	220	J
S10V002511		O		Tetracosane	646-31-1	18.22	ug/kg	290	JN
S10V002511		O		Unknown Hydrocarbon-4		18.77	ug/kg	460	J
S10V002511		O		Unknown Hydrocarbon-5		19.35	ug/kg	440	J
S10V002511		O		Unknown Hydrocarbon-6		19.97	ug/kg	600	J
S10V002511		O		Unknown Hydrocarbon-7		20.61	ug/kg	940	J
S10V002511		O		Unknown Hydrocarbon-8		21.30	ug/kg	940	J
S10V002511		O		Unknown Hydrocarbon-9		22.08	ug/kg	690	J
S10V002511		O		Unknown Hydrocarbon-10		22.99	ug/kg	390	J
S10V002511		O		Unknown Hydrocarbon-11		24.06	ug/kg	210	J
S10V002511		O	BLNK	Unknown-1		12.22	ug/kg	820	
S10V002511		O	BLNK	Unknown-2		12.26	ug/kg	640	
S10V002511		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.90	ug/kg	610	

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

27-Jan-2011 17:1020
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100584

Core Number: C7680

Customer Sample ID: B26C40

Sample Depth: 142-144

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002806		O		Unknown-1		12.22	ug/kg	1000	BJ
S10V002806		O		Unknown-2		12.27	ug/kg	660	BJ
S10V002806		O		1,2-Benzenedicarboxyli	84-69-5	14.90	ug/kg	650	BJN
S10V002806		O		Unknown-3		20.61	ug/kg	220	J
S10V002806		O	BLNK	Unknown-1		12.22	ug/kg	820	
S10V002806		O	BLNK	Unknown-2		12.26	ug/kg	640	
S10V002806		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.90	ug/kg	610	

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
N - Named TIC
T - MS/MSD Outside Range
B - Blank Contamination
J - Estimated

Attachment 6

ANALYTICAL BATCH AND LABORATORY SAMPLE ID INDEX

Batch/Sample Index

METHOD	BATCH	SAMPLE	MATRIX	VERIFIED BY	VERIFICATIO	SDG
AMERICIUM	00024102	S10V001880	SOLID	Ritenour, GP	Ready Report	20100584
AMERICIUM	00024102	S10V001897	SOLID	Ritenour, GP	Ready Report	20100584
AMERICIUM	00024102	S10V001917	SOLID	Ritenour, GP	Ready Report	20100584
AMERICIUM	00024102	S10V001937	SOLID	Ritenour, GP	Ready Report	20100584
AMERICIUM	00024102	S10V001957	SOLID	Ritenour, GP	Ready Report	20100584
AMERICIUM	00024102	S10V002041	SOLID	Ritenour, GP	Ready Report	20100584
AMERICIUM	00024102	S10V002063	SOLID	Ritenour, GP	Ready Report	20100584
AMERICIUM	00024102	S10V002373	SOLID	Ritenour, GP	Ready Report	20100584
AMERICIUM	00024102	S10V002516	SOLID	Ritenour, GP	Ready Report	20100584
AMERICIUM	00024102	S10V002811	SOLID	Ritenour, GP	Ready Report	20100584
CARBON-14	00022669	S10V001873	SOLID	Ritenour, GP	Ready Report	20100584
CARBON-14	00022669	S10V001890	SOLID	Ritenour, GP	Ready Report	20100584
CARBON-14	00022669	S10V001910	SOLID	Ritenour, GP	Ready Report	20100584
CARBON-14	00022669	S10V001930	SOLID	Ritenour, GP	Ready Report	20100584
CARBON-14	00022669	S10V001950	SOLID	Ritenour, GP	Ready Report	20100584
CARBON-14	00022669	S10V001970	SOLID	Ritenour, GP	Ready Report	20100584
CARBON-14	00022669	S10V002056	SOLID	Ritenour, GP	Ready Report	20100584
CARBON-14	00022669	S10V002076	SOLID	Ritenour, GP	Ready Report	20100584
CARBON-14	00022669	S10V002509	SOLID	Ritenour, GP	Ready Report	20100584
CARBON-14	00022669	S10V002804	SOLID	Ritenour, GP	Ready Report	20100584
CN - EDTA	00021915	S10V001906	SOLID	Ritenour, GP	Ready Report	20100584
CN - EDTA	00021915	S10V001926	SOLID	Ritenour, GP	Ready Report	20100584
CN - EDTA	00021915	S10V001946	SOLID	Ritenour, GP	Ready Report	20100584
CN - EDTA	00021915	S10V001966	SOLID	Ritenour, GP	Ready Report	20100584
CN - EDTA	00021915	S10V002050	SOLID	Ritenour, GP	Ready Report	20100584
CN - EDTA	00021915	S10V002072	SOLID	Ritenour, GP	Ready Report	20100584
CN - EDTA	00022027	S10V001869	SOLID	Ritenour, GP	Ready Report	20100584
CN - EDTA	00022027	S10V001886	SOLID	Ritenour, GP	Ready Report	20100584
CN - EDTA	00022027	S10V002505	SOLID	Ritenour, GP	Ready Report	20100584
CN - EDTA	00022027	S10V002800	SOLID	Ritenour, GP	Ready Report	20100584
GEA	00022051	S10V001871	SOLID	Ritenour, GP	Ready Report	20100584
GEA	00022051	S10V001888	SOLID	Ritenour, GP	Ready Report	20100584
GEA	00022051	S10V001908	SOLID	Ritenour, GP	Ready Report	20100584
GEA	00022051	S10V001928	SOLID	Ritenour, GP	Ready Report	20100584
GEA	00022051	S10V001948	SOLID	Ritenour, GP	Ready Report	20100584
GEA	00022051	S10V001968	SOLID	Ritenour, GP	Ready Report	20100584
GEA	00022051	S10V002054	SOLID	Ritenour, GP	Ready Report	20100584
GEA	00022051	S10V002074	SOLID	Ritenour, GP	Ready Report	20100584
GEA	00022051	S10V002507	SOLID	Ritenour, GP	Ready Report	20100584
GEA	00022051	S10V002801	SOLID	Ritenour, GP	Ready Report	20100584
HG	00022200	S10V001869	SOLID	Ritenour, GP	Ready Report	20100584
HG	00022200	S10V001886	SOLID	Ritenour, GP	Ready Report	20100584
HG	00022200	S10V001906	SOLID	Ritenour, GP	Ready Report	20100584
HG	00022200	S10V001926	SOLID	Ritenour, GP	Ready Report	20100584
HG	00022200	S10V001946	SOLID	Ritenour, GP	Ready Report	20100584
HG	00022200	S10V001966	SOLID	Ritenour, GP	Ready Report	20100584
HG	00022200	S10V002050	SOLID	Ritenour, GP	Ready Report	20100584
HG	00022200	S10V002072	SOLID	Ritenour, GP	Ready Report	20100584
HG	00022200	S10V002505	SOLID	Ritenour, GP	Ready Report	20100584
HG	00022200	S10V002800	SOLID	Ritenour, GP	Ready Report	20100584

Batch/Sample Index

METHOD	BATCH	SAMPLE	MATRIX	VERIFIED BY	VERIFICATIO	SDG
IC - ANIONS/SMALL ORG. ACIDS	00021990	S10V001876	SOLID	Ritenour, GP	Ready Report	20100584
IC - ANIONS/SMALL ORG. ACIDS	00021990	S10V001893	SOLID	Ritenour, GP	Ready Report	20100584
IC - ANIONS/SMALL ORG. ACIDS	00021990	S10V001913	SOLID	Ritenour, GP	Ready Report	20100584
IC - ANIONS/SMALL ORG. ACIDS	00021990	S10V001933	SOLID	Ritenour, GP	Ready Report	20100584
IC - ANIONS/SMALL ORG. ACIDS	00021990	S10V001953	SOLID	Ritenour, GP	Ready Report	20100584
IC - ANIONS/SMALL ORG. ACIDS	00021990	S10V001973	SOLID	Ritenour, GP	Ready Report	20100584
IC - ANIONS/SMALL ORG. ACIDS	00021990	S10V002059	SOLID	Ritenour, GP	Ready Report	20100584
IC - ANIONS/SMALL ORG. ACIDS	00021990	S10V002363	SOLID	Ritenour, GP	Ready Report	20100584
IC - ANIONS/SMALL ORG. ACIDS	00021990	S10V002512	SOLID	Ritenour, GP	Ready Report	20100584
IC - ANIONS/SMALL ORG. ACIDS	00021990	S10V002807	SOLID	Ritenour, GP	Ready Report	20100584
IC - NH4	00021732	S10V001878	SOLID	Ritenour, GP	Ready Report	20100584
IC - NH4	00021732	S10V001895	SOLID	Ritenour, GP	Ready Report	20100584
IC - NH4	00021960	S10V001935	SOLID	Ritenour, GP	Ready Report	20100584
IC - NH4	00021960	S10V001955	SOLID	Ritenour, GP	Ready Report	20100584
IC - NH4	00021960	S10V002039	SOLID	Ritenour, GP	Ready Report	20100584
IC - NH4	00021960	S10V002061	SOLID	Ritenour, GP	Ready Report	20100584
IC - NH4	00021960	S10V002368	SOLID	Ritenour, GP	Ready Report	20100584
IC - NH4	00021960	S10V002514	SOLID	Ritenour, GP	Ready Report	20100584
IC - NH4	00021960	S10V002809	SOLID	Ritenour, GP	Ready Report	20100584
ICP/AES METALS	00023817	S10V001877	SOLID	Ritenour, GP	Ready Report	20100584
ICP/AES METALS	00023817	S10V001894	SOLID	Ritenour, GP	Ready Report	20100584
ICP/AES METALS	00023817	S10V001914	SOLID	Ritenour, GP	Ready Report	20100584
ICP/AES METALS	00023817	S10V001934	SOLID	Ritenour, GP	Ready Report	20100584
ICP/AES METALS	00023817	S10V001954	SOLID	Ritenour, GP	Ready Report	20100584
ICP/AES METALS	00023817	S10V002038	SOLID	Ritenour, GP	Ready Report	20100584
ICP/AES METALS	00023817	S10V002060	SOLID	Ritenour, GP	Ready Report	20100584
ICP/AES METALS	00023817	S10V002365	SOLID	Ritenour, GP	Ready Report	20100584
ICP/AES METALS	00023817	S10V002513	SOLID	Ritenour, GP	Ready Report	20100584
ICP/AES METALS	00023817	S10V002808	SOLID	Ritenour, GP	Ready Report	20100584
IODINE-129 in SOIL	00023600	S10V001888	SOLID	Ritenour, GP	Ready Report	20100584
IODINE-129 in SOIL	00023600	S10V001908	SOLID	Ritenour, GP	Ready Report	20100584
IODINE-129 in SOIL	00023600	S10V001928	SOLID	Ritenour, GP	Ready Report	20100584
IODINE-129 in SOIL	00023600	S10V001948	SOLID	Ritenour, GP	Ready Report	20100584
IODINE-129 in SOIL	00023600	S10V001968	SOLID	Ritenour, GP	Ready Report	20100584
IODINE-129 in SOIL	00023600	S10V002054	SOLID	Ritenour, GP	Ready Report	20100584
IODINE-129 in SOIL	00023600	S10V002074	SOLID	Ritenour, GP	Ready Report	20100584
IODINE-129 in SOIL	00023602	S10V002507	SOLID	Ritenour, GP	Ready Report	20100584
IODINE-129 in SOIL	00023602	S10V002801	SOLID	Ritenour, GP	Ready Report	20100584
IODINE-129 in SOIL	00024255	S10V001871	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023367	S10V001877	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023367	S10V001894	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023367	S10V001914	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023367	S10V001934	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023367	S10V001954	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023367	S10V002038	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023367	S10V002060	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023367	S10V002365	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023367	S10V002513	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023367	S10V002808	SOLID	Ritenour, GP	Ready Report	20100584

Batch/Sample Index

METHOD	BATCH	SAMPLE	MATRIX	VERIFIED BY	VERIFICATIO	SDG
ICP/MS ACTINIDES	00023808	S10V001877	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023808	S10V001894	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023808	S10V001914	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023808	S10V001934	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023808	S10V001954	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023808	S10V002038	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023808	S10V002060	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023808	S10V002365	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023808	S10V002513	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS ACTINIDES	00023808	S10V002808	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99, SB-126	00024040	S10V001879	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99, SB-126	00024040	S10V001896	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99, SB-126	00024040	S10V001916	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99, SB-126	00024040	S10V001936	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99, SB-126	00024040	S10V001956	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99, SB-126	00024040	S10V002040	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99, SB-126	00024040	S10V002062	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99, SB-126	00024040	S10V002370	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99, SB-126	00024040	S10V002515	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99, SB-126	00024040	S10V002810	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00022891	S10V001874	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00022891	S10V001891	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00022891	S10V001911	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00022891	S10V001931	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00022891	S10V001951	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00022891	S10V001971	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00022891	S10V002057	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00022891	S10V002077	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00022891	S10V002510	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00022891	S10V002805	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024435	S10V001877	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024435	S10V001894	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024435	S10V001914	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024435	S10V001934	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024435	S10V001954	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024435	S10V002038	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024435	S10V002060	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024435	S10V002365	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024435	S10V002513	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024435	S10V002808	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024457	S10V001877	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024457	S10V001894	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024457	S10V001914	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024457	S10V001934	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024457	S10V001954	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024457	S10V002038	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024457	S10V002060	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024457	S10V002365	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024457	S10V002513	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS METALS	00024457	S10V002808	SOLID	Ritenour, GP	Ready Report	20100584

Batch/Sample Index

METHOD	BATCH	SAMPLE	MATRIX	VERIFIED BY	VERIFICATIO	SDG
ICP/MS TC-99	00023951	S10V001872	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99	00023951	S10V001889	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99	00023951	S10V001909	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99	00023951	S10V001929	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99	00023951	S10V001949	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99	00023951	S10V001969	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99	00023951	S10V002055	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99	00023951	S10V002075	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99	00023951	S10V002508	SOLID	Ritenour, GP	Ready Report	20100584
ICP/MS TC-99	00023951	S10V002803	SOLID	Ritenour, GP	Ready Report	20100584
NICKEL-63	00024054	S10V001882	SOLID	Ritenour, GP	Ready Report	20100584
NICKEL-63	00024054	S10V001899	SOLID	Ritenour, GP	Ready Report	20100584
NICKEL-63	00024054	S10V001919	SOLID	Ritenour, GP	Ready Report	20100584
NICKEL-63	00024054	S10V001939	SOLID	Ritenour, GP	Ready Report	20100584
NICKEL-63	00024054	S10V001959	SOLID	Ritenour, GP	Ready Report	20100584
NICKEL-63	00024054	S10V002043	SOLID	Ritenour, GP	Ready Report	20100584
NICKEL-63	00024054	S10V002065	SOLID	Ritenour, GP	Ready Report	20100584
NICKEL-63	00024054	S10V002378	SOLID	Ritenour, GP	Ready Report	20100584
NICKEL-63	00024054	S10V002518	SOLID	Ritenour, GP	Ready Report	20100584
NICKEL-63	00024054	S10V002813	SOLID	Ritenour, GP	Ready Report	20100584
PH SOLID	00022336	S10V001869	SOLID	Ritenour, GP	Ready Report	20100584
PH SOLID	00022336	S10V001886	SOLID	Ritenour, GP	Ready Report	20100584
PH SOLID	00022336	S10V001906	SOLID	Ritenour, GP	Ready Report	20100584
PH SOLID	00022336	S10V001926	SOLID	Ritenour, GP	Ready Report	20100584
PH SOLID	00022336	S10V001946	SOLID	Ritenour, GP	Ready Report	20100584
PH SOLID	00022336	S10V001966	SOLID	Ritenour, GP	Ready Report	20100584
PH SOLID	00022336	S10V002050	SOLID	Ritenour, GP	Ready Report	20100584
PH SOLID	00022336	S10V002072	SOLID	Ritenour, GP	Ready Report	20100584
PH SOLID	00022336	S10V002505	SOLID	Ritenour, GP	Ready Report	20100584
PH SOLID	00022336	S10V002800	SOLID	Ritenour, GP	Ready Report	20100584
PLUTONIUM	00024101	S10V001880	SOLID	Ritenour, GP	Ready Report	20100584
PLUTONIUM	00024101	S10V001897	SOLID	Ritenour, GP	Ready Report	20100584
PLUTONIUM	00024101	S10V001917	SOLID	Ritenour, GP	Ready Report	20100584
PLUTONIUM	00024101	S10V001937	SOLID	Ritenour, GP	Ready Report	20100584
PLUTONIUM	00024101	S10V001957	SOLID	Ritenour, GP	Ready Report	20100584
PLUTONIUM	00024101	S10V002041	SOLID	Ritenour, GP	Ready Report	20100584
PLUTONIUM	00024101	S10V002063	SOLID	Ritenour, GP	Ready Report	20100584
PLUTONIUM	00024101	S10V002373	SOLID	Ritenour, GP	Ready Report	20100584
PLUTONIUM	00024101	S10V002516	SOLID	Ritenour, GP	Ready Report	20100584
PLUTONIUM	00024101	S10V002811	SOLID	Ritenour, GP	Ready Report	20100584
SELENIUM-79	00024055	S10V001882	SOLID	Ritenour, GP	Ready Report	20100584
SELENIUM-79	00024055	S10V001899	SOLID	Ritenour, GP	Ready Report	20100584
SELENIUM-79	00024055	S10V001919	SOLID	Ritenour, GP	Ready Report	20100584
SELENIUM-79	00024055	S10V001939	SOLID	Ritenour, GP	Ready Report	20100584
SELENIUM-79	00024055	S10V001959	SOLID	Ritenour, GP	Ready Report	20100584
SELENIUM-79	00024055	S10V002043	SOLID	Ritenour, GP	Ready Report	20100584
SELENIUM-79	00024055	S10V002065	SOLID	Ritenour, GP	Ready Report	20100584
SELENIUM-79	00024055	S10V002378	SOLID	Ritenour, GP	Ready Report	20100584
SELENIUM-79	00024055	S10V002518	SOLID	Ritenour, GP	Ready Report	20100584
SELENIUM-79	00024055	S10V002813	SOLID	Ritenour, GP	Ready Report	20100584

Batch/Sample Index

METHOD	BATCH	SAMPLE	MATRIX	VERIFIED BY	VERIFICATIO	SDG
STRONTIUM-90	00024017	S10V001881	SOLID	Ritenour, GP	Ready Report	20100584
STRONTIUM-90	00024017	S10V001898	SOLID	Ritenour, GP	Ready Report	20100584
STRONTIUM-90	00024017	S10V001918	SOLID	Ritenour, GP	Ready Report	20100584
STRONTIUM-90	00024017	S10V001938	SOLID	Ritenour, GP	Ready Report	20100584
STRONTIUM-90	00024017	S10V001958	SOLID	Ritenour, GP	Ready Report	20100584
STRONTIUM-90	00024017	S10V002042	SOLID	Ritenour, GP	Ready Report	20100584
STRONTIUM-90	00024017	S10V002064	SOLID	Ritenour, GP	Ready Report	20100584
STRONTIUM-90	00024017	S10V002376	SOLID	Ritenour, GP	Ready Report	20100584
STRONTIUM-90	00024017	S10V002517	SOLID	Ritenour, GP	Ready Report	20100584
STRONTIUM-90	00024017	S10V002812	SOLID	Ritenour, GP	Ready Report	20100584
SULFIDE	00021697	S10V001869	SOLID	Ritenour, GP	Ready Report	20100584
SULFIDE	00021697	S10V001886	SOLID	Ritenour, GP	Ready Report	20100584
SULFIDE	00021892	S10V001906	SOLID	Ritenour, GP	Ready Report	20100584
SULFIDE	00021892	S10V001926	SOLID	Ritenour, GP	Ready Report	20100584
SULFIDE	00021892	S10V001946	SOLID	Ritenour, GP	Ready Report	20100584
SULFIDE	00021892	S10V001966	SOLID	Ritenour, GP	Ready Report	20100584
SULFIDE	00021892	S10V002050	SOLID	Ritenour, GP	Ready Report	20100584
SULFIDE	00021964	S10V002072	SOLID	Ritenour, GP	Ready Report	20100584
SULFIDE	00021964	S10V002505	SOLID	Ritenour, GP	Ready Report	20100584
SULFIDE	00021964	S10V002800	SOLID	Ritenour, GP	Ready Report	20100584
SVOA 222S #2	00022043	S10V001875	SOLID	Ritenour, GP	Ready Report	20100584
SVOA 222S #2	00022043	S10V001892	SOLID	Ritenour, GP	Ready Report	20100584
SVOA 222S #2	00022217	S10V002359	SOLID	Ritenour, GP	Ready Report	20100584
SVOA 222S #2	00022217	S10V002511	SOLID	Ritenour, GP	Ready Report	20100584
SVOA 222S #2	00022217	S10V002806	SOLID	Ritenour, GP	Ready Report	20100584
SVOA 222S #2	00022254	S10V001912	SOLID	Ritenour, GP	Ready Report	20100584
SVOA 222S #2	00022254	S10V001932	SOLID	Ritenour, GP	Ready Report	20100584
SVOA 222S #2	00022254	S10V001952	SOLID	Ritenour, GP	Ready Report	20100584
SVOA 222S #2	00022254	S10V001972	SOLID	Ritenour, GP	Ready Report	20100584
SVOA 222S #2	00022254	S10V002058	SOLID	Ritenour, GP	Ready Report	20100584
TRITIUM-LARGE VOLUME	00024291	S10V001873	SOLID	Ritenour, GP	Ready Report	20100584
TRITIUM-LARGE VOLUME	00024291	S10V001890	SOLID	Ritenour, GP	Ready Report	20100584
TRITIUM-LARGE VOLUME	00024291	S10V001910	SOLID	Ritenour, GP	Ready Report	20100584
TRITIUM-LARGE VOLUME	00024291	S10V001930	SOLID	Ritenour, GP	Ready Report	20100584
TRITIUM-LARGE VOLUME	00024291	S10V001950	SOLID	Ritenour, GP	Ready Report	20100584
TRITIUM-LARGE VOLUME	00024291	S10V001970	SOLID	Ritenour, GP	Ready Report	20100584
TRITIUM-LARGE VOLUME	00024291	S10V002056	SOLID	Ritenour, GP	Ready Report	20100584
TRITIUM-LARGE VOLUME	00024291	S10V002076	SOLID	Ritenour, GP	Ready Report	20100584
TRITIUM-LARGE VOLUME	00024291	S10V002509	SOLID	Ritenour, GP	Ready Report	20100584
TRITIUM-LARGE VOLUME	00024291	S10V002804	SOLID	Ritenour, GP	Ready Report	20100584
VOA 222S #2	00021718	S10V001846	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021718	S10V001856	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021719	S10V001866	SOLID	Ritenour, GP	Ready Report	20100584
VOA 222S #2	00021719	S10V001883	SOLID	Ritenour, GP	Ready Report	20100584
VOA 222S #2	00021786	S10V001847	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021786	S10V001848	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021786	S10V001849	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021786	S10V001850	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021786	S10V001855	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021786	S10V001857	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021786	S10V001865	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021897	S10V001900	SOLID	Ritenour, GP	Ready Report	20100584
VOA 222S #2	00021897	S10V001920	SOLID	Ritenour, GP	Ready Report	20100584
VOA 222S #2	00021897	S10V001940	SOLID	Ritenour, GP	Ready Report	20100584
VOA 222S #2	00021897	S10V001960	SOLID	Ritenour, GP	Ready Report	20100584
VOA 222S #2	00021897	S10V002044	SOLID	Ritenour, GP	Ready Report	20100584
VOA 222S #2	00021897	S10V002066	SOLID	Ritenour, GP	Ready Report	20100584

Batch/Sample Index

METHOD	BATCH	SAMPLE	MATRIX	VERIFIED BY	VERIFICATIO	SDG
VOA 222S #2	00021922	S10V001851	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021922	S10V001852	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021922	S10V001853	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021922	S10V001859	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021922	S10V001860	LIQUID	Clauss, Scott	PC Validation	20100583
VOA 222S #2	00021979	S10V002499	SOLID	Ritenour, GP	Ready Report	20100584
VOA 222S #2	00021979	S10V002794	SOLID	Ritenour, GP	Ready Report	20100584
VOA 222S #2	00024659	S10V001858	LIQUID	Clauss, Scott	PC Validation	20100583

Attachment 7

GEOLOGICAL REPORT WITH BULK DENSITY RESULTS

C7680 Bulk Density Results

Core Number	Customer Sample ID	Sample Depth	SAMPLE_R	Analyte\	Units	Result
C7680	B26C26A	5-7	S10V001903	Bulk Density	g/mL	1.74
C7680	B26C26B	5-7	S10V001904	Bulk Density	g/mL	1.60
C7680	B26C28A	10-12	S10V001923	Bulk Density	g/mL	1.88
C7680	B26C28B	10-12	S10V001924	Bulk Density	g/mL	1.96
C7680	B26C30A	14-16	S10V001943	Bulk Density	g/mL	2.08
C7680	B26C30B	14-16	S10V001944	Bulk Density	g/mL	2.06
C7680	B26C30C	14-16	S10V001945	Bulk Density	g/mL	1.97
C7680	B26C32A	17-19	S10V001963	Bulk Density	g/mL	2.07
C7680	B26C32B	17-19	S10V001964	Bulk Density	g/mL	2.02
C7680	B26C32C	17-19	S10V001965	Bulk Density	g/mL	2.00
C7680	B26C36A	92-94	S10V002069	Bulk Density	g/mL	1.93
C7680	B26C36B	92-94	S10V002070	Bulk Density	g/mL	1.98
C7680	B26C38A	116-118	S10V002502	Bulk Density	g/mL	1.86
C7680	B26C38B	116-118	S10V002503	Bulk Density	g/mL	1.93
C7680	B26C40C	142-144	S10V002799	Bulk Density	g/mL	2.17

Sample ID	Laboratory ID	Date examined	Description
B26JK8-Surface	S10V001869	08-27-2010	mS muddy sand, very slightly moist, poorly sorted sand with abundant mud, trace gravel. Largest piece 15mm (excluded). Sand is mostly fine to very fine grained, sub-angular to sub-rounded mud is silt, very slightly cohesive, some small clasts, easily broken, trace mica. Color: 2.5Y5/3 Acid reactivity: Moderate to vigorous.
B26JK9-Surface dup	S10V001886	08-27-2010	mS muddy sand, very slightly moist, poorly sorted, fine to very fine sand with abundant silt, very slightly cohesive, small clasts, easily broken, trace gravel, sub-angular to sub-rounded, largest piece 11mm, trace mica. Color: 2.5Y4/3 Acid reactivity: Moderate.
B26C26-A 5' - 7'	S10V001903	08-31-2010	Tube is full. mS muddy sand, slightly moist, uniform fine grained sand with silt, mud is mostly silt with trace clay, sand is very fine to fine trace medium grained. Largest grains 0.5mm. Sample extruded very easily, moderately cohesive, clasts break easily. Color: 2.5Y4/4 Acid reactivity: Slight.
B26C26-B 5' - 7'	S10V001904	08-31-2010	Tube is full. Soil slid from tube. mS muddy sand, slightly moist, uniform fine sand with silt, trace clay, moderately cohesive, clasts break eaily, sand mostly fine to very fine grained, larges grains , <0.5mm, trace mica Clor: 2.5Y4/4 Acid reactivity: Slight to moderate.
B26C26-C 5' - 7'	S10V001905	08-31-2010	Partial gap at bottom, not measured as material pours easily from tube. sM sandy mud, very slightly moist, coarse silt with abundant fine sand, largest grains <0.5mm, Uniform color and texture, trace clay, mud cohesive, clasts break easily, one large grain found 7mm, trace mica. Color:2.5Y 4/4 Acid reactivity: Slight.

Sample ID	Laboratory ID	Date examined	Description
B26C28-A 10' - 12'	S10V001923	08-31-2010	Tube is full. (g)S slightly gravelly sand, very slightly moist, largest grains 17, 19mm (excluded). Basalt sand, moderately well sorted, medium and coarse grains dominate, minor gravel, minor mud (silt), non cohesive scattered white grains, sub-rounded to angular, no visible mice. Color: 2.5Y2.5/1 Acid reactivity: Very slight.
B26C28-B 10' - 12'	S10V001924	08-31-2010	Tube is full, sample pours easily. gS gravelly sand, largest pieces 18,24mm (excluded), 18mm piece was sub-rounded gray chert pebble, sub-rounded to angular, mostly basalt sand, mostly medium grained, trace mud (silt), non cohesive, scattered white grains, no visible mica. Color: 2.5Y2.5/1 Acid reactivity: Very slight.
B26C30-A 14' - 16'	S10V001943	08-31-2010	Tube is full. (m)S slightly muddy sand, very slightly moist, fine grained with coarse silt, largest grains 1mm, angular to sub-angular, uniform texture, slight salt and pepper, no clay, no gravel, non cohesive trace mica. Color: 2.5Y5/2 Acid reactivity: Slight.
B26C30-B 14' - 16'	S10V001944	08-31-2010	Tube is full. S sand, very slightly moist, well sorted, fine grained sand, minor coarse silt, largest grain 2mm, angular to sub-angular, slight salt and pepper texture, no gravel, uniform color, mud, non cohesive, trace mica. Color: 2.5Y4/2 Acid reactivity: Slight to moderate.
B26C30-C 14' - 16'	S10V001945	08-31-2010	Tube is full. S sand, very slightly moist, well sorted, fine grained sand, minor coarse silt, sand very fine to fine grained, largest grains 1mm, trace gravel, one 7mm pebble, angular to sub-angular, slight salt and pepper texture, uniform color, non cohesive Trace mica. Color: 2.5Y4/2 Acid reactivity: Slight to moderate

Sample ID	Laboratory ID	Date examined	Description
B26C32-A 17' - 19'	S10V001963	08-31-2010	Tube is full. mS muddy sand, very slightly moist, fine grained sand with coarse silt, moderately well sorted, uniform color and texture, non cohesive, minor clasts break easily with a fes requiring moderate pressure, largest grains <0.5mm, trace mica Color: 2.5Y4/3 Acid reactivity: Moderate.
B26C32-B 17' - 19'	S10V001964	08-31-2010	Tube is full. (m)S slightly muddy sand, very slightly moist, fine grained sand with coarse silt, moderately well sorted, largest grains 2mm, trace medium and coarse grained sand, uniform color and texture, occasional clasts, easily broken, no clay, no gravel, trace mica. Color: 2.5Y5/2 Acid reactivity: Moderate.
B26C32-C 17' - 19'	S10V001965	08-31-2010	Tube is full S sand, very slightly moist, very fine sand with some coarse silt, well sorted, uniform color and texture, coarsest grains <0.5mm, non cohesive, no clasts, no clay, no gravel, trace mica. Color: 2.5Y5/2 Acid reactivity: Slight to moderate.
B26C34-A 43' - 45'	S10V002047	09-01-2010	5mm gap on bottom. gS gravelly sand, dry, poorly sorted, ranges from very fine to coarse grained, trace mud (silt), minor gravel, largest grain 17, 18mm (excluded), sub-rounded to sub-angular, largely basalt, non cohesive, trace mica. Color: 2.5Y6/1 Acid reactivity: Slight to moderate.
B26C34-B 43' - 45'	S10V002048	09-01-2010	Top 3mm bulge. M mud, moist, silt with clay and fine sand, numerous clasts, easily broken, slightly cohesive, uniform color and texture, race mica. Color: 2.5Y4/3 Acid reactivity: Moderate.
B26C34-C 43' - 45'	S10V002049	09-01-2010	Crooked and dented cap on bottom. 35mm clay layer on top, M mud, slightly moist, top is similar to B liner, silt with sand and clay, somewhat cohesive, clasts break easily, trace mica. (g)S slightly gravelly sand fills the remainer of liner, poorly sorted, gravelly sand with silt, largest grains 15, 18mm (excluded), sub-rounded to sub-angular, gravel mostly basalt, slight salt and pepper texture, trace mica. Color: 2.5y4/2 for sand 2.5Y4/3 for mud. Acid re

Sample ID	Laboratory ID	Date examined	Description
B26C36-A 92 - 94	S10V002069	09-02-2010	Tube is full. (m)S slightly muddy sand, very slightly moist, well sorted, fine grained sand with coarse silt, largest grains 3mm, no clay trace gravel, dominant sand size is fine, trace mica. Color: 2.5Y6/3 Acid reactivity: Slight to moderate.
B26C36-B 92 – 94	S10V002070	09-02-2010	Tube is full. mS muddy sand, very slight moist, fine grained sandy silt, trace clay, no gravel, largest grains 0.5mm, sand is mostly fine and very fine grained, mud is mostly coarse silt, uniform color and texture, very slightly cohesive, trace mica. Color: 2.5Y5/3 Acid reactivity: Moderate.
B26C36-C 92 - 94	S10V002071	09-02-2010	Irregular depression on bottom, up to 4mm deep. mS muddy sand, slightly moist, well sorted fine grained sand with coarse silt, largest grains 0.2mm, trace clay, no gravel, sand is mostly very fine and fine grained, uniform color and texture, very slightly cohesive. Color: 2.5Y5/3 Acid reactivity: Moderate to vigorous.
B26C38-A 116' - 118'	S10V002502	09-02-2010	Tube is full. S sand, very slightly moist, well sorted, medium grained with trace mud (silt), trace gravel, largest grains 8mm, sub-rounded to angular, slight salt and pepper texture, non cohesive, no clay, trace mica. Color: 2.5Y5/3 Acid reactivity: Slight to moderate.
B26C38-B 116' - 118'	S10V002503	09-02-2010	Tube is full, S sand, dry, moderately well sorted, medium grained sand, trace silt, no clay, trace gravel, largest grain 12mm (excluded), angular to sub-rounded, mostly medium to coarse sand, non cohesive, salt and pepper texture, trace mica. Color: 2.5Y 5/4 Acid reactivity: Slight.
B26C38-C 116' - 118'	S10V002504	09-02-2010	Concave depression in top 5mm deep, same at bottom. S sand, very slightly moist, moderately well sorted, medium grained, trace silt, trace gravel, largest grain is 4mm, angular to sub- rounded, non cohesive, salt and pepper texture, trace mica. Color: 2.5Y5/3 Acid reactivity: Slight.

Sample ID	Laboratory ID	Date examined	Description
B26C40-A 142' - 144'	S10V002797	09-02-2010	Large rock lodged in top, end cap bulged 10mm. S sand, slightly moist, poorly sorted sand with gravel in top 20mm, largest piece 25mm, 18mm (excluded), dominate coarse grained, but medium and fine to very fine well represented, trace silt, trace clay, slightly cohesive, angular to sub-angular, trace mica. Color: 2.5Y4/2 Acid reactivity: Slight to moderate.
B26C40-B 142' - 144'	S10V002798	09-02-2010	Irregular depression in bottom up to 6mm deep, same in top up to 4mm deep. gS gravelly sand, slightly moist, poorly sorted, medium to coarse grained sand with gravel, largest grains 21mm and 12mm (excluded), angular to sub-rounded, trace silt, slightly cohesive, trace clay, clay mostly found as small clasts, easily broken, no mica seen. Color: 2.5Y4/3 Acid reactivity: Slight.
B26C40-C 142' - 144'	S10V002799	09-02-2010	Tube is full. gS gravelly sand, very slightly moist, larges grains 20, 20, 19, 17, 15mm all (excluded), poorly sorted, medium to coarse grained sand with gravel, trace silt, very slightly cohesive, sub-rounded to angular, trace mica. Color: 2.5Y4/2 Acid reactivity: Moderate.

C Farm 2010-2, C7680 Photographic Log and Scanned Geologic Descriptions 10/12/2010

Figure A-1 Sample B26JK8 (Surface Sample)

Figure A-2 Sample B26JK9 (Surface Sample Duplicate)

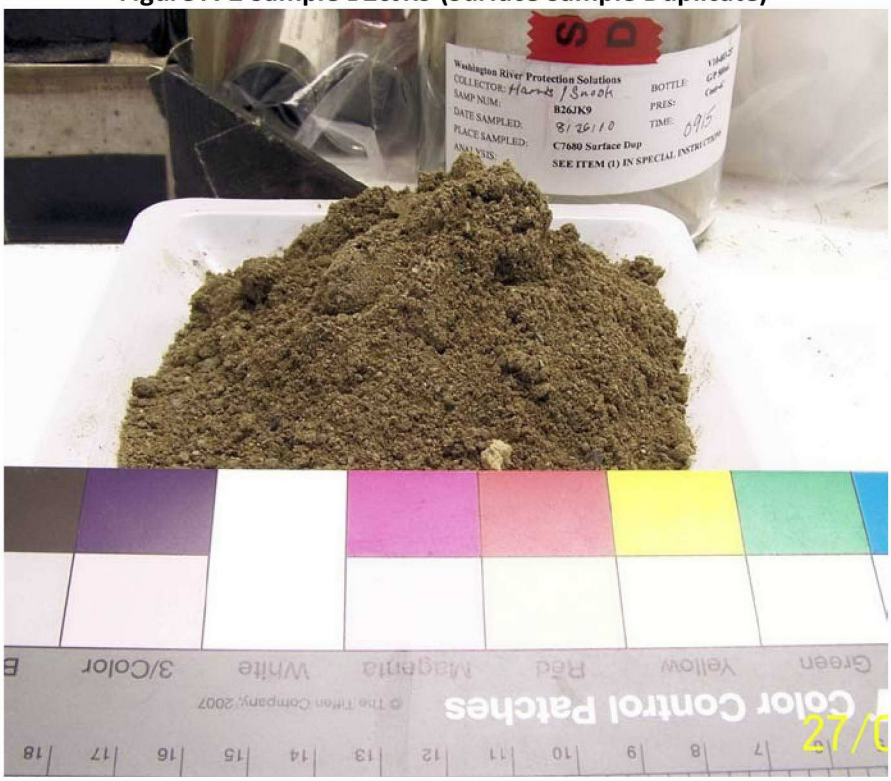

Figure A-3 Sample B26C26 CORE A (5'-7')

Figure A-4 Sample B26C26 CORE B (5'-7')

Figure A-5 Sample B26C26 CORE C (5'-7')

Figure A-6 Sample B26C28 CORE A (10'-12')

Figure A-7 Sample B26C28 CORE B (10'-12')

Figure A-8 Sample B26C30 CORE A (14'-16')

Figure A-9 Sample B26C30 CORE B (14'-16')

Figure A-10 Sample B26C30 CORE C (14'-16')

Figure A-11 Sample B26C32 CORE A (17'-19')

Figure A-12 Sample B26C32 CORE B (17'-19')

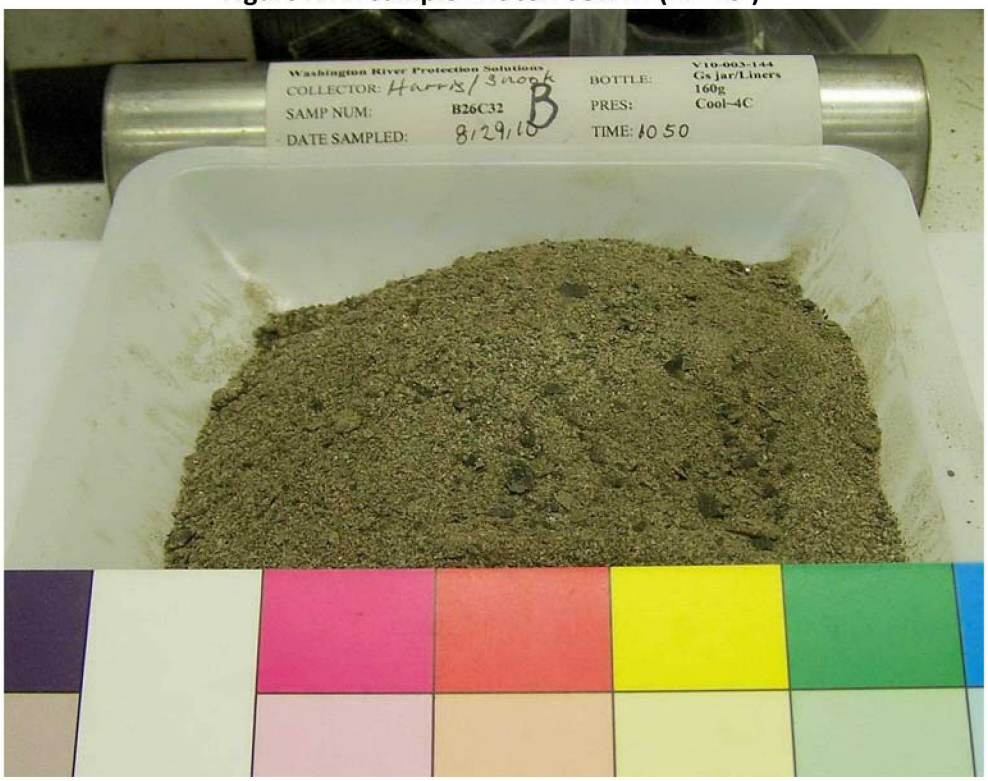

Figure A-13 Sample B26C32 CORE C (17'-19')

Figure A-14 Sample B26C34 CORE A (43'-45')

Figure A-15 Sample B26C34 CORE B (43'-45')

Figure A-16 Sample B26C34 CORE C (43'-45')

Figure A-17 Sample B26C36 CORE A (92'-94')

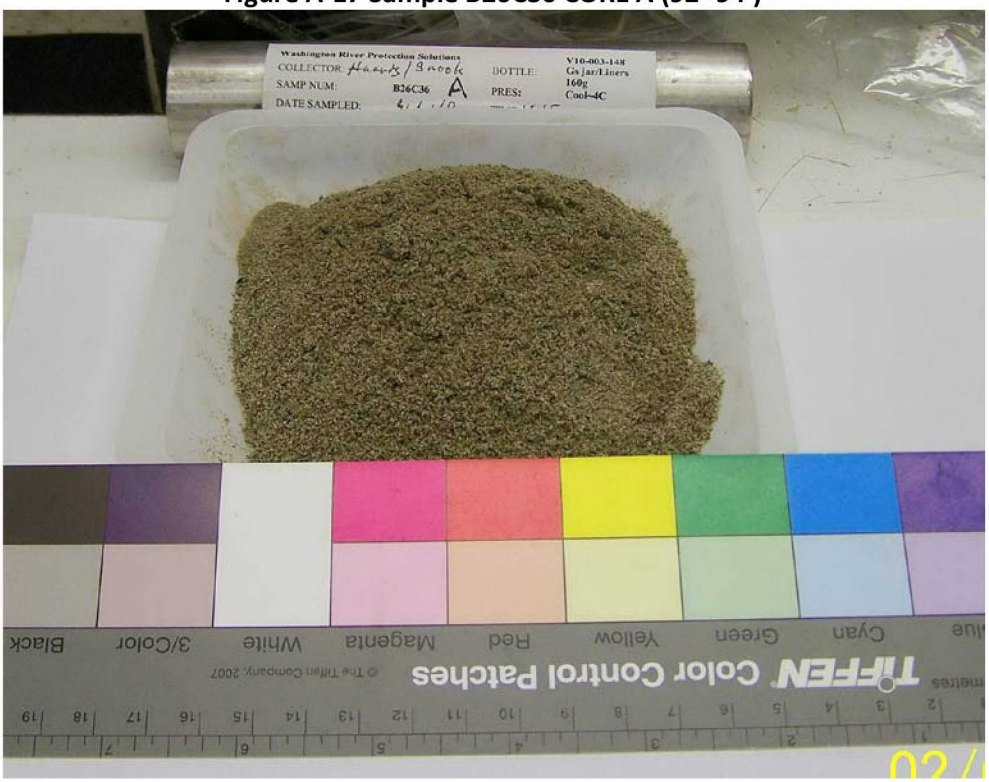

Figure A-18 Sample B26C36 CORE B (92'-94')

Figure A-19 Sample B26C36 CORE C (92'-94')

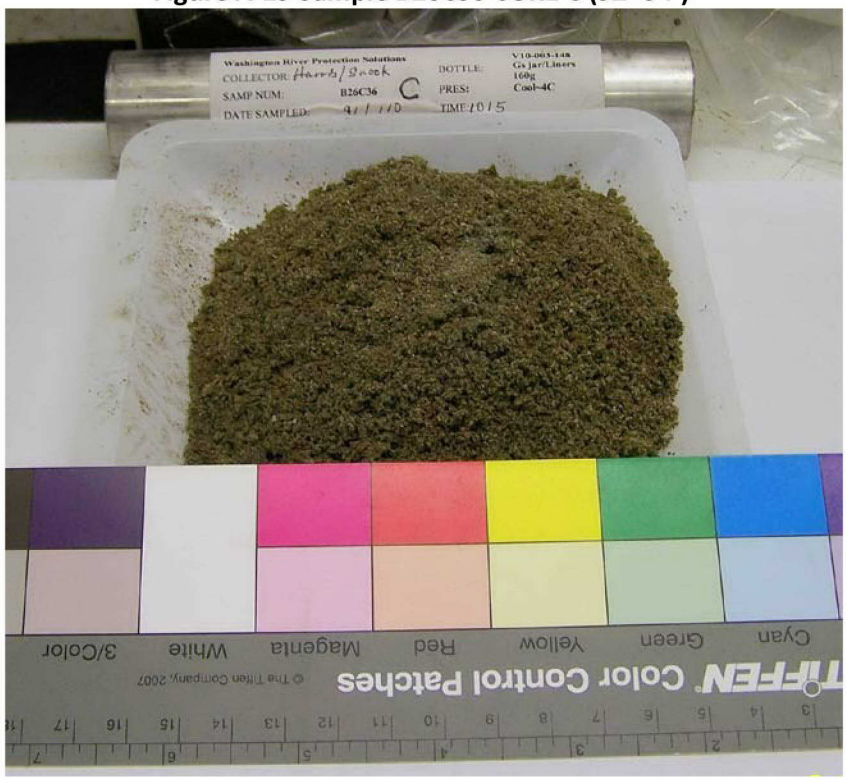

Figure A-20 Sample B26C38 CORE A (116'-118')

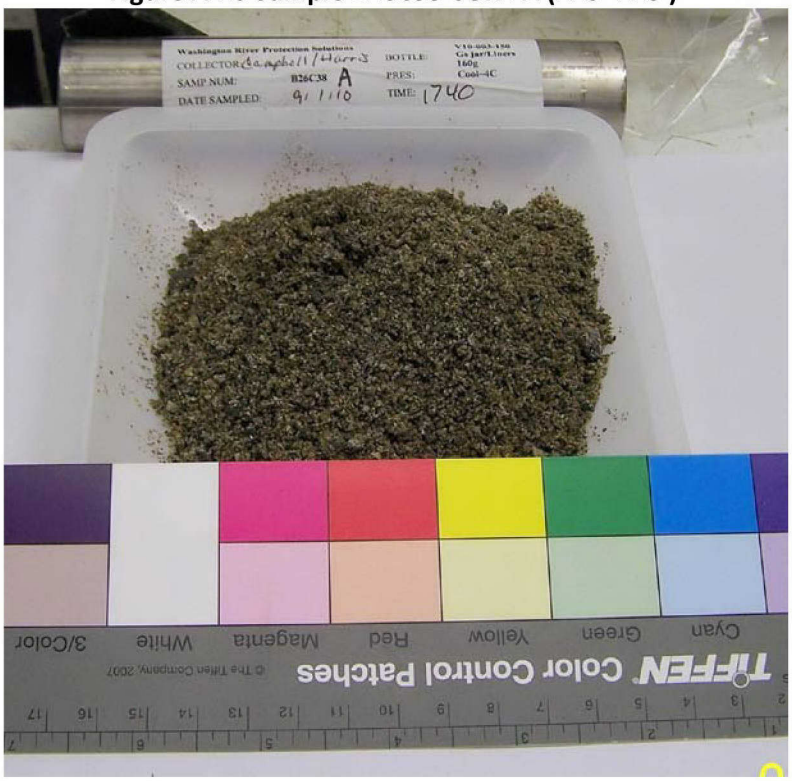

Figure A-21 Sample B26C38 CORE B (116'-118')

Figure A-22 Sample B26C38 CORE C (116'-118')

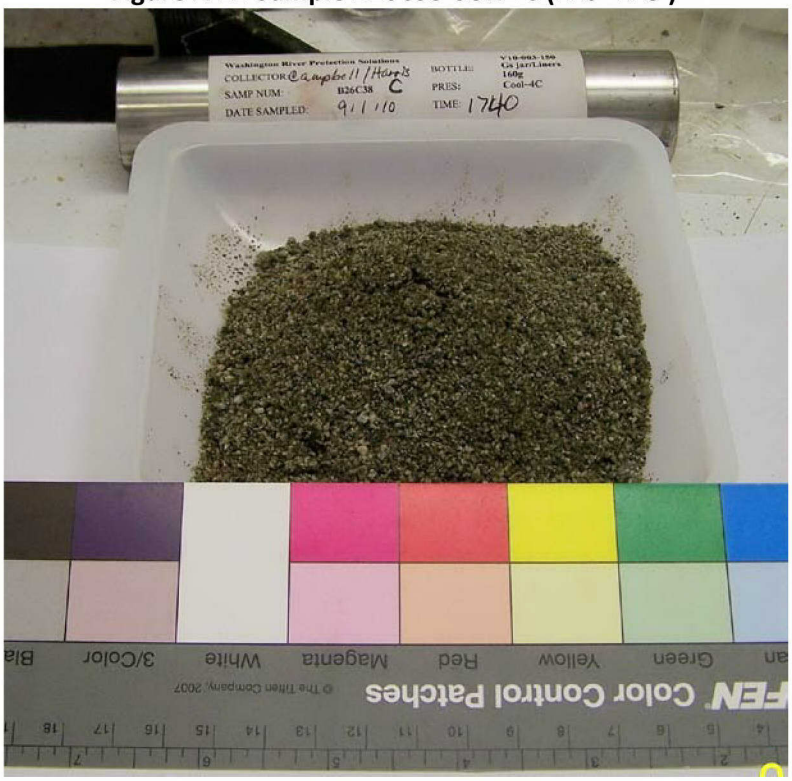

Figure A-23 Sample B26C40 CORE A (142'-144')

Figure A-24 Sample B26C40 CORE B (142'-144')

Figure A-25 Sample B26C40 CORE C (142'-144')

C7680 Bulk Density Results

Core Number	Customer Sample ID	Sample Depth	SAMPLE_R	Analyte\	Units	Result
C7680	B26C26A	5-7	S10V001903	Bulk Density	g/mL	1.74
C7680	B26C26B	5-7	S10V001904	Bulk Density	g/mL	1.60
C7680	B26C28A	10-12	S10V001923	Bulk Density	g/mL	1.88
C7680	B26C28B	10-12	S10V001924	Bulk Density	g/mL	1.96
C7680	B26C30A	14-16	S10V001943	Bulk Density	g/mL	2.08
C7680	B26C30B	14-16	S10V001944	Bulk Density	g/mL	2.06
C7680	B26C30C	14-16	S10V001945	Bulk Density	g/mL	1.97
C7680	B26C32A	17-19	S10V001963	Bulk Density	g/mL	2.07
C7680	B26C32B	17-19	S10V001964	Bulk Density	g/mL	2.02
C7680	B26C32C	17-19	S10V001965	Bulk Density	g/mL	2.00
C7680	B26C36A	92-94	S10V002069	Bulk Density	g/mL	1.93
C7680	B26C36B	92-94	S10V002070	Bulk Density	g/mL	1.98
C7680	B26C38A	116-118	S10V002502	Bulk Density	g/mL	1.86
C7680	B26C38B	116-118	S10V002503	Bulk Density	g/mL	1.93
C7680	B26C40C	142-144	S10V002799	Bulk Density	g/mL	2.17

Attachment 8

CHARACTERIZATION CHANGE NOTICES
AND CORRESPONDENCE

REVIEW COMMENT RECORD (RCR)	1. Date 4/21/2011 (Rev. 1)	2. Review No.
	3. Project No.	Page 1 of 1

5. Document Number(s)/Title(s)	6. Program/Project/Building Number	7. Reviewer	8. Organization/Group	9. Location/Phone
ATL#20100584 Rev.0 **Final Analytical Report for Samples from Waste Management Area C for Core Hole C7680, 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
Date: ____ Organization Manager (optional) (print and sign): ____	HL Anastos (Reviewer/Point of Contact (print and sign)) 8-2-11 (Date) GP Ritenour (Author/Originator (print and sign))	HL Anastos (Reviewer/Point of Contact (print and sign)) 8-2-11 (Date) GP 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. 5: States mercury analysis was performed using "graphic furnace/atomic absorption".	Professional Judgment	It appears this should be "graphite furnace/atomic absorption;" however, stating simply "cold-vapor atomic absorption" would be more accurate. (Graphite furnace is not used).	Y	Fixed statement	Closed
2	p.8: Sn-126 results appear to be affected by interference.	Narrative	Ensure results are flagged with an "E" qualifier.	Y	Add "E" flags	Closed
3	COC: Incorrect date is listed as the sample date.	Sample date is entered as 1/9/10; however, relinquished/received dates are 9/1/10. Sampling did not commence at this well until August.	Note discrepancy on RCR. No additional actions required.	N	N/A	Closed

A-6400-090.1 (REV 1)

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.

Mike

Michael Connelly
Washington River Protection Solutions
P. O. Box 850,
MSIN H6-03,
Richland, WA 99352
(509) 373-3981
Michael_Connelly@rl.gov

From:	Anastos, Heather L
To:	Ritenour, Gerald P; Johnson, Jo M
Cc:	McKinney, Steve G
Subject:	RE: C7672 SDG 20100520
Date:	Wednesday, December 29, 2010 1:53:02 PM

We intended to write a CCN on this…but it doesn't look like it was ever submitted to you. Go ahead and issue the report for C7672. We will write a CCN requesting the conductivity to be analyzed and reported separately.

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

washington river protection solutions

contractor to the United States Department of Energy

From: Ritenour, Gerald P
Sent: Tuesday, December 28, 2010 4:55 PM
To: Ritenour, Gerald P; Anastos, Heather L; Johnson, Jo M
Cc: McKinney, Steve G
Subject: RE: C7672 SDG 20100520

Correction that's C7672

Gerald "JR" Ritenour
Project Manager
ATL Analytical Operations
Advanced Technologies and Laboratories International, Inc.
Contractor to the Office of River Protection
U.S. Department of Energy
(509) 372-2742 office
(509) 438-8837 cell
gerald_p_ritenour@rl.gov

From: Ritenour, Gerald P
Sent: Tuesday, December 28, 2010 4:43 PM
To: Anastos, Heather L; Johnson, Jo M
Cc: McKinney, Steve G
Subject: C7672 SDG 20100520

Heather, Jo Marie,
The COCs for core hole requested conductivity, which as was not required in the SAP or FSAP and was no performed. For the report corresponds, please verify this was correct and conductivity was not to be analyzed.
Thanks, JR

Gerald "JR" Ritenour
Project Manager

ATL Analytical Operations
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Ritenour, Gerald P

From: Anastos, Heather L
Sent: Wednesday, January 26, 2011 7:34 AM
To: Ritenour, Gerald P
Cc: Johnson, Jo M; McKinney, Steve G
Subject: RE: Dup RPDs
Attachments: image001.jpg

JR -

Report the results with narration.

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

washington river protection solutions
contractor to the United States Department of Energy

From: Ritenour, Gerald P
Sent: Tuesday, January 25, 2011 3:07 PM
To: Anastos, Heather L
Cc: Johnson, Jo M; McKinney, Steve G
Subject: RE:

Actually in thinking little more about this; what are the chances of every element being higher in the dup? The high dup results are more likely a result of an analytical error than matrix. However, we do not have an ICP to re-analyze these samples. The room work is scheduled for completion 2/7/2010. Holding times start expiring in 28 days.

ATL Analytical Operations
Advanced Technologies and Laboratories International, Inc.
Contractor to the Office of River Protection
U.S. Department of Energy
Currently at 509-375-4200, Ext 247

From: Ritenour, Gerald P
Sent: Tuesday, January 25, 2011 2:02 PM
To: Anastos, Heather L
Cc: Johnson, Jo M; McKinney, Steve G
Subject:

Heather,
The table below displays the results for the primary analytes that failed MS recovery (±25) and or RPD (30%). This appears to due to inhomogeneity. The average RPD for all results above the quant level is 19%, which is high. All dup results are higher than the sample and no spike recovery is below 100%. I would like to report these results with narration. Please let me know if you concur.
Thanks, JR

Core Number	Customer Sample ID	Sample Depth	Lab ID	ANALYTE	Units	LCS	BLANK	RESULT	DUP	RPD	MS	MDL
C7680	B26JK9	Surface Dup	S10V001894	Barium	ug/g	88.6	<3.00E-03	59.4	78.4	27.5	136	0.296
C7680	B26JK9	Surface Dup	S10V001894	Chromium	ug/g	80.7	<5.00E-03	8.27	11.5	32.3	109	0.493
C7680	B26JK9	Surface Dup	S10V001894	Sodium	ug/g	87.1	<0.100	132	222	50.8	431	9.86
C7680	B26JK9	Surface Dup	S10V001894	Strontium	ug/g	88.7	<3.00E-03	23.3	32.0	31.2	134	0.296

ATL Analytical Operations
Advanced Technologies and Laboratories International, Inc.
Contractor to the Office of River Protection
U.S. Department of Energy
Currently at 509-375-4200, Ext 247

From: Ritenour, Gerald P
To: Anastos, Heather L; Johnson, Jo M; McKinney, Steve G
Cc: Wyse, Eric J; Schroeder, Robert W; Hansen, Daniel R; Kuhl-Klinger, Kristine J
Subject: RE: C Farm 2010 Core 7680 SDG 20100584
Date: Thursday, February 10, 2011 9:49:00 AM

Heather,
We currently are in the process of correcting these types of mistakes and oversights by taking the following actions:

- Each analytical department now has a deputy manager who will focus on error reduction as one part of their job. The inorganic group will have 2 deputies, one of which, Kay Keltner, her focus will be mainly on this issue.
- An additional PM has been hired and one of the experienced PMs will begin working on the vadose projects in addition to me. This will allow for a more timely review of analytical data.

With these changes we are hoping that these errors are "sins of the past" and Vadose FY11 will not experience them. This issue has been enter into our corrective action management system.
Regards, JR

Gerald "JR" Ritenour
Project Manager
ATL Analytical Operations
Advanced Technologies and Laboratories International, Inc.
Contractor to the Office of River Protection
U.S. Department of Energy
(509) 372-2742 office
(509) 438-8837 cell
gerald_p_ritenour@rl.gov

From: Anastos, Heather L
Sent: Tuesday, February 08, 2011 9:43 AM
To: Ritenour, Gerald P; Johnson, Jo M; McKinney, Steve G
Cc: Wyse, Eric J
Subject: RE: C Farm 2010 Core 7680 SDG 20100584

JR -
We agree - do not report the result. Note the laboratory error in the narrative to explain the missing result.

Is the laboratory looking into how to find and correct these sorts of issues in a timely manner? If this had been identified earlier, we would have likely been able to reanalyze.

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

washingtonriver protectionsolutions

contractor to the United States Department of Energy

From: Ritenour, Gerald P
Sent: Monday, February 07, 2011 2:33 PM
To: Anastos, Heather L; Johnson, Jo M; McKinney, Steve G
Subject: C Farm 2010 Core 7680 SDG 20100584

All,
The ammonium samples for all intervals except surface and surface dup were in a batch with a serious QC deficiency. It appears that the parent QC sample (interval I001) was spiked inadvertently (see attached table, highlighted in yellow). This was not discovered until about 2 weeks ago. We reanalyzed the samples last week (highlighted in green), but based on the amount of drop in ammonium, these sample results and QC are not usable. This is not unexpected given that over 5 months has lapsed since sampling. I am planning on reporting the remaining 7 samples (interval I002 to I008) in original batch. The LCS was 92.3%, but prep blank was high, just above the EQL. All result are "C" flagged. This leaves us without a valid result for interval I001. The duplicate indicates the original result was 61 ug/g and based on the reanalysis this is probably a valid result even though it is high. I am not sure what to report for the I001. My preference is not to report a value and discuss in narrative, but I realize that may not be acceptable to the project. We could use the dup value, lots of assumption here. I would not be in favor reporting "as is" with narrative. I'm afraid that someone would end up using the result. Please let me know how the project would like to proceed.
JR

Gerald "JR" Ritenour
Project Manager
ATL Analytical Operations
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U.S. Department of Energy
(509) 372-2742 office
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gerald_p_ritenour@rl.gov

Attachment 9

RECEIPT PAPERWORK

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev E.E.0

Date Samples Received: 8-26-10 Group #:

Number of Samples: 2 sets C-Farm vadose (7680) Surface & DUP

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	0°C / 8°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 DPN Date 8-26-10

If No, comment on communication and resolution:

690
692
682
694

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-065	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris/ Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7680 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**	
TFU2-09-003	TFU2-10-000004	Surface/Surface Dup	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
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CV1	WATER	8-26-10	0845	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
Dan Harris Dan Harris 8-26-10	1620	RA Steele RA Steele 8-26-10	1020	O/U/RX
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	GRP 20100583
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	Sam 510V00 1856
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-075	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C7680 Field Blank 1	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V10-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: surface/Dup	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
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CW2	WATER	8-26-10	0915	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Adams Dan Adams 8-26-10	1020	RJSteele RJSteele 8.26.10	1020
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

OV
O/P

GRID 20100583
Sam # 510V001~~846~~ ~~1854~~ 1846 RJSteele 8.26.10

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-256	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris/Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7680 Surface	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFUS-09-003	TFU2-10-000004	Surface	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
HOLDING TIME	14 Days	14 Days
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		
B26JL8	SOIL	8-26-10	0900	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-26-10 1020	RASteele RASteele	8.26.10 1020
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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, and 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a 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.

8/26/10 RK

GRP# 20100584
Sam# 510V00 1866
1867

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-057	PAGE 1 OF 1
COLLECTOR: Harris/Snook	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 9P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7680 Surface	PROJECT DESIGNATION: WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO.: V10-012	AIR QUALITY: ☐	
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: Surface	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	Cool~4C
HOLDING TIME	14 Days
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	
B26CM7	OTHER LIQUID	8-26-10	0900	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Dan Harris Dan Harris 8-26-10	DATE/TIME: 1020	RECEIVED BY/STORED IN: R K Steele R K Steele 8-26-10	DATE/TIME: 1020
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.

** This SAF addresses the one methanol process control sample collected whenever a VOA sample is collected.

°C 0/RS

GRP# 20100584
SAM # 510V00 1868

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-255	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7680 Surface	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	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
HOLDING TIME	14/40 Days
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	
B26JK8	SOIL	8-26-10	0900	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-26-10 1020	RHSteele RHSteele	8.26.10 1020
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
OU
O/RK
GRP# 20100584
SAM# 510V001869

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-255	PAGE 2 OF 2
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	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		

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); 1668 PCB CONGENER (TCL); 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-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-258	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7680 Surface Dup	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	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~ 4C
HOLDING TIME	14 Days	14 Days
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		
B26JL9	SOIL	8-26-10	0915	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-26-10 1020	RHSteele RHSteele	8-26-10 1020
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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, and 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a 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.

OU 8/pk

GRP # 20100584
Stm # 510V00 ~~1866~~ 1883
~~1867~~ 1884
Y RHSteele 8-26-10

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-012-058	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 9P	DATA TURNAROUND
Harris / Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7680 Surface Dup	WMA C Sampling for CMS - Methanol Process Control Sample		V10-012		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	Surface Dup.	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	Cool~4C
HOLDING TIME	14 Days
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	
B26CM8	OTHER LIQUID	8-26-10	0915	–

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-26-10 1020	RHSteele RHSteele	8-26-10 1020
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.

** This SAF addresses the one methanol process control sample collected whenever a VOA sample is collected.

0°C/pK

GRP# 20100584
Sam# 510V00 ~~1868~~ ~~1889~~ 1885 Y

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-257	PAGE 1 OF 2
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 Surface Dup	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH Surface Dup	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14/40 Days
		TYPE OF CONTAINER	G/P
		NO. OF CONTAINER(S)	1
		VOLUME	500mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26JK9	SOIL	8-26-10	0915	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Dan Harris Dan Harris 8-26-10	DATE/TIME 1020	RECEIVED BY/STORED IN RLSteele RLSteele 8-26-10	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

OC / O / RK

GRP # 20100584
Sm # S10V00 ~~1869~~ Y 1886

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-257	PAGE 2 OF 2
COLLECTOR Harris / Swook	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 8P **AIR QUALITY** ☐	**DATA TURNAROUND** **75 Days / 75 Days**
SAMPLING LOCATION C7680 Surface Dup	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003		
ICE CHEST NO. TFVS-09-003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** Surface Dup	**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		

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); 1668 PCB CONGENER (TCL); 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-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C - 7680 Surface Dup.		
Sampler Initials:	SAS	**Date:**	8 - 26 - 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)
B26529	K	N/A	N/A	26.33	32.38	6.05	No Methanol
B26529	L	N/A	N/A	26.17	31.90	5.73	No Methanol
B26529	M	N/A	N/A	26.11	32.30	6.19	No Methanol
B26529	N	N/A	N/A	25.92	31.77	5.85	No Methanol
B26529	P	N/A	N/A	26.03	32.40	6.37	No Methanol
B26529	W	37.716	37.58	37.94	43.72	5.78	10 ml
B26529	X	37.506	37.35	37.73	43.83	6.10	10 ml
B26529	Y	36.951	36.85	37.19	42.66	5.47	10 ml
B26CMB	*	37.350	37.19	37.60	N/A	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.

0915

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

0900

Location:	C-7680 Surface		
Sampler Initials:	JDS	**Date:**	8-26-10
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)
B26JL8	K	N/A	N/A	25.87	31.94	6.07	No Methanol
B26JL8	L	N/A	N/A	26.00	31.68	5.68	No Methanol
B26JL8	M	N/A	N/A	26.22	31.40	5.18	No Methanol
B26JL8	N	N/A	N/A	26.08	31.70	5.62	No Methanol
B26JL8	P	N/A	N/A	26.20	31.30	5.10	No Methanol
B26JL8	W	37.102	36.97	37.35	42.77	5.42	10ml
B26JL8	X	37.777	37.61	38.01	43.62	5.61	10ml
B26JL8	Y	36.818	36.66	37.03	42.45	5.42	10 ml
B26CM7	*	36.912	36.75	37.13	N/A	N/A	10ml

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 E.E.0

Date Samples Received: 8-27-10 Group #: 20100583

Number of Samples: 1 set C-Farm C7680 I001 Y584

Sample Custodian: RHtas

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	3°C / 11°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? RFS PM Initials [illegible] Date 8.27.10

If No, comment on communication and resolution: per G. R. Tenour

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-066	PAGE 1 OF 1
COLLECTOR Snook, Villarreal	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 7P	**DATA TURNAROUND**
SAMPLING LOCATION C7680 Trip Blank 2	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC Sampling		**SAF NO.** V10-002	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO. TFV3-09-003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 5' to 7'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	**PRESERVATION**	HCl or H2SO4 to pH <2/Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	**SAMPLE ANALYSIS**	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CV2	WATER	8-27-10	1230	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
Scott Swoot	8-27-10 1404	RHStoole	8.27.10 1400	3 U/RK
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

GRP# 20100583
Sam# S10V00186S

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-076	PAGE 1 OF 1
COLLECTOR Shook, Villarreal	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 7P	**DATA TURNAROUND**
SAMPLING LOCATION C7680 Field Blank 2	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC Sampling		**SAF NO.** V10-002	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO. TFVS-09-003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 5' to 7'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CW3	WATER	8-27-10	1245	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Scott Shook	1404 8-27-10	R Stebbins Stebbins	8.27.10 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

3°C/pk

GRP# 20100583

Sam# 510V001855

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-139	PAGE 1 OF 1
COLLECTOR: Snook / Villarreal	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: 7680 001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 5' to 7'	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~ 4C
HOLDING TIME	14 Days	14 Days
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		
B26C27	SOIL	8-27-10	1315	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Scott Sweet	DATE/TIME: 8-27-10 1404	RECEIVED BY/STORED IN: RPSteele	DATE/TIME: 8-27-10 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

0°C
3°C
-11°C
RK

CRP# 20100584
SAM# S10V001900
1901

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-020	PAGE 1 OF 1
COLLECTOR: Snook / Villarreal	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 9P	DATA TURNAROUND
SAMPLING LOCATION: C7680 I001	PROJECT DESIGNATION: WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO.: V10-012	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 5' to 7'	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14 Days
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	
B26CH1	OTHER LIQUID	8-27-10	1315	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Scott Snook	8-27-10 1404	RA Steele	8-27-10 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.

** This COC addresses the one methanol process control sample collected whenever a VOA sample is collected.

3 °C / PK

GRP# 20100584
SAF# 510V001902

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-138	PAGE 1 OF 2
COLLECTOR Snook / Villarreal	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 5' to 7'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14/40 Days
		TYPE OF CONTAINER	Gs jar/Liners
		NO. OF CONTAINER(S)	3
		VOLUME	160g
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C26	SOIL	8-27-10	1315	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Jacob Snook	DATE/TIME 8-27-10 1404	RECEIVED BY/STORED IN R.S. Steele	DATE/TIME 8.27.10 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

30C / RSH

GRP#
20100584

Sam# S10V001903
1904
1905

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-138	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION 7680 001	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT** Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the 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); 1668 PCB CONGENER (TCL); 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-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

7160

5/10/2010 1:54 PM	WORKING COPY

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C-1680 I001		
Sampler Initials:	SAS	**Date:**	8-27-10
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)
B26C27	K	N/A	N/A	26.12	31.38	5.26	No Methanol
B26C27	L	N/A	N/A	26.17	31.46	5.29	No Methanol
B26C27	M	N/A	N/A	26.12	31.21	5.09	No Methanol
B26C27	N	N/A	N/A	26.03	32.54	6.51	No Methanol
B26C27	P	N/A	N/A	26.11	31.16	5.05	No Methanol
B26C27	W	36.911	36.85	37.18	41.52	4.34	10ml
B26C27	X	37.187	37.01	37.43	42.02	4.59	10ml
B26C27	Y	37.214	37.17	37.50	42.52	5.02	10 ml
B26CH1	*	37.173	37.06	37.42	N/A	N/A	10ml

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 6.6.0

Date Samples Received: 8-29-10 Group #: 20100 583, 584

Number of Samples: 3 sets C-FARM VADOSE C 7680, I002, 3, 4, 3FB, 1TB

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	2°C / 9°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)	✓		ZB Fridge

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

PM to Complete:

Samples acceptable for release? _____ PM Initials _____ Date _____

If No, comment on communication and resolution:

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-067	PAGE 1 OF 1
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 Trip Blank 3	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFUS-09-003	FIELD LOGBOOK NO. TFUZ-10-000004	ACTUAL SAMPLE DEPTH 10' - 12'	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
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CV3	WATER	8-29-10	0745	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-29-10 1147	RHSteele RHSteele	8-29-10
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

OV/RK

20100583
510V001857

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-077	PAGE 1 OF 1
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 Field Blank 3	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 10' - 12'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CW4	WATER	8-29-10	0750	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Dan Harris Dan Harris	DATE/TIME 8-29-10 1147	RECEIVED BY/STORED IN RHSteele RHSteele	DATE/TIME 8-29-10 1147	OC N/PK 20100583 S10V001847
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-078	PAGE 1 OF 1
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 Field Blank 4	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	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		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CW5	WATER	8-29-10	0855	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM DanHarris DanHarris 8-29-10	DATE/TIME 1147	RECEIVED BY/STORED IN RFSteele RFSteele 8.29.10	DATE/TIME 1147	2°C/12pk 20100583 S10V001848
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-079	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C7680 Field Blank 5	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V10-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 17' to 19'	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
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CW6	WATER	8-29-10	1010	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: Dan Harris Dan Harris	DATE/TIME: 8-29-10 1147	RECEIVED BY/STORED IN: R Steele R Steele	DATE/TIME: 8-29-10 1147	°C ✓ pH
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	20100583
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	SLOV001849
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-141	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
7680 002	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	10' - 12'	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
HOLDING TIME	14 Days	14 Days
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		
B26C29	SOIL	8-29-10	0830	/	/

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-29-10 1147	RT Stock RT Stock	8.29.10 1147
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a 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.

2°C / 2°C / 9 / RT

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1921

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-011	PAGE 1 OF 1
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 9P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 I002	PROJECT DESIGNATION WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO. V10-012		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 10' - 12'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool~4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days
		TYPE OF CONTAINER	Gs*
		NO. OF CONTAINER(S)	1
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CH2	OTHER LIQUID	8-29-10	0830	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Dan Adams Dan Harris	DATE/TIME 8-29-10 1147	RECEIVED BY/STORED IN RLSteele	DATE/TIME 8.29.10 1147
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.

** This COC addresses the one methanol process control sample collected whenever a VOA sample is collected.

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-140	PAGE 1 OF 2
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 10' - 12'	COA n/A	METHOD OF SHIPMENT Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. n/A		BILL OF LADING/AIR BILL NO. n/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14/40 Days
		TYPE OF CONTAINER	Gs jar/Liners
		NO. OF CONTAINER(S)	2 OK 8-29-10
		VOLUME	160g
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C28	SOIL	8-29-10	0830	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Dan Harris Dan Harris	8-29-10 1147	Richard R Steele	8-29-10 1147	2°C
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	20100584
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	S10V00 1923
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	1924
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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-140	PAGE 2 OF 2
COLLECTOR Harris / Snook	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION 7680 002	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO. TFVS-09-003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 10' - 12'	**COA** N/A	**METHOD OF SHIPMENT** Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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); 1668 PCB CONGENER (TCL); 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-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-143	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: 7680 003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 14' to 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 <-7C and >-20C	MEOH/Cool~ 4C
HOLDING TIME	14 Days	14 Days
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		
B26C31	SOIL	8-29-10	0935	—	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Dan Harris Dan Harris	DATE/TIME: 8-29-10 1147	RECEIVED BY/STORED IN: RPSteele/6	DATE/TIME: 8-29-10 1147
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-012	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 9P	DATA TURNAROUND
SAMPLING LOCATION: C7680 I003	PROJECT DESIGNATION: WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO.: V10-012	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 14' to 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		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation 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
HOLDING TIME	14 Days
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	
B26CH3	OTHER LIQUID	8-29-10	0935	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Dan Harris Dan Harris	DATE/TIME: 8-29-10 1147	RECEIVED BY/STORED IN: RA Steele RA Steele	DATE/TIME: 8.29.10 1147
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN: /	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.

** This COC addresses the one methanol process control sample collected whenever a VOA sample is collected.

2°C / RA

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-142	PAGE 1 OF 2
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFUS-09-003	FIELD LOGBOOK NO. TFUZ-10-000004	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14/40 Days
		TYPE OF CONTAINER	Gs jar/Liners
		NO. OF CONTAINER(S)	3 A,B,C RK
		VOLUME	160g
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C30	SOIL	8-29-10	0935	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
DanHarris DanHarris	8-29-10 1147	RASteele RASteele	8.29.10 1147	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-142	PAGE 2 OF 2
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION 7680 003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	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		

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); 1668 PCB CONGENER (TCL); 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-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-145	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: 7680 004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS - 09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 17' to 19'	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~ 4C
HOLDING TIME	14 Days	14 Days
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		
B26C33	SOIL	8-29-10	1050	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Dan Harris	DATE/TIME: 8-29-10 1147	RECEIVED BY/STORED IN: RPSteele	DATE/TIME: 8-29-10 1147
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a 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.

VOA/VOA/9/PA

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-013	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 9P	DATA TURNAROUND
SAMPLING LOCATION: C7680 I004	PROJECT DESIGNATION: WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO.: V10-012	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 17' to 19'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	Gs*
		NO. OF CONTAINER(S)	1
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CH4	OTHER LIQUID	8-29-10	1050	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Dan Harris Dan Harris	DATE/TIME: 8-29-10 1147	RECEIVED BY/STORED IN: RHSteele RHSteele	DATE/TIME: 8.29.10 1147
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.

** This COC addresses the one methanol process control sample collected whenever a VOA sample is collected.

2°C / RK

20100584
S10V001962

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-144	PAGE 1 OF 2
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFV2-10-000004	ACTUAL SAMPLE DEPTH 17' - 19'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14/40 Days
		TYPE OF CONTAINER	Gs jar/Liners
		NO. OF CONTAINER(S)	3 A, B1 C
		VOLUME	160g
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C32	SOIL	8-29-10	1050	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Dan Harris Dan Harris	8-29-10 1147	RH Steel/G RH Steel/G	8.29.10 1147	0 c / 2 / RS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	20100584 S10V001963 A 1964 B 1965 C
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-144	PAGE 2 OF 2
COLLECTOR Hughes / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFUS-09-003	FIELD LOGBOOK NO. TFUZ-10-000004	ACTUAL SAMPLE DEPTH 17'-19'	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		

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); 1668 PCB CONGENER (TCL); 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-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C-7680 I 002		
Sampler Initials:	SAS	**Date:**	8-29-10
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)
B26C29	K	N/A	N/A	26.11	31.54	5.43	No Methanol
B26C29	L	N/A	N/A	26.13	31.05	4.92	No Methanol
B26C29	M	N/A	N/A	26.14	31.07	4.93	No Methanol
B26C29	N	N/A	N/A	26.31	31.16	4.83	No Methanol
B26C29	P	N/A	N/A	25.95	31.36	5.41	No Methanol
B26C29	W	37.177	37.03	37.46	42.16	4.70	10ml
B26C29	X	36.692	36.53	36.90	41.56	4.66	10ml
B26C29	Y	36.739	36.57	36.96	41.71	4.75	10ml
B26CH2	*	37.084	36.93	37.31	N/A	N/A	10ml

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.

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C-7680 I003		
Sampler Initials:	SAS	**Date:**	8-29-10
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)
B26C31	K	N/A	N/A	25.97	30.25	4.28	No Methanol
B26C31	L	N/A	N/A	26.05	29.30	3.25	No Methanol
B26C31	M	N/A	N/A	26.13	29.71	3.58	No Methanol
B26C31	N	N/A	N/A	26.16	30.76	4.60	No Methanol
B26C31	P	N/A	N/A	26.15	31.01	4.86	No Methanol
B26C31	W	37.844	37.70	38.03	42.70	4.67	10ml
B26C31	X	36.568	36.43	36.79	41.66	4.87	10ml
B26C31	Y	36.969	36.78	37.17	42.10	4.93	10ml
B26CN3	*	37.142	37.01	37.37	N/A	N/A	10ml

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.

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C-7680 I004		
Sampler Initials:	SAS	**Date:**	8-29-10
Scale Number:	820-66-06-002	**Cal. Due Date:**	9-11-10

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)
B26C33	K	N/A	N/A	26.28	31.00	4.72	No Methanol
B26C33	L	N/A	N/A	26.19	29.79	3.60	No Methanol
B26C33	M	N/A	N/A	26.19	31.36	5.17	No Methanol
B26C33	N	N/A	N/A	26.16	29.97	3.81	No Methanol
B26C33	P	N/A	N/A	26.12	29.63	3.51	No Methanol
B26C33	W	37.176	37.00	37.38	42.78	5.40	10ml
B26C33	X	36.520	36.40	36.76	41.74	4.98	10ml
B26C33	Y	37.159	37.00	37.38	42.11	4.73	10ml
B26CH4	*	37.466	37.36	37.72	N/A	N/A	10ml

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 66.0

Date Samples Received: 8.31.10 Group #: 20100584 Y 585

Number of Samples: 1 set C-Farm VADOSE

Sample Custodian: TM Gilloch

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	Y		
RSR provided?	Y		
Verify GKI is complete	Y		
Check that outer custody seal is intact, if present	Y		
Record cooler temperature in centigrade, as appropriate	0°C/-18°C		☐ Check if no cooler and/or no ice
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 SPR Date 8/31/10

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 0)

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C-7680 I005		
Sampler Initials:	SMS	**Date:**	8-31-10
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)
B26C35	K	N/A	N/A	26.28	31.55	5.27	No Methanol
B26C35	L	N/A	N/A	26.24	31.78	5.54	No Methanol
B26C35	M	N/A	N/A	26.22	31.67	5.45	No Methanol
B26C35	N	N/A	N/A	26.12	31.95	5.83	No Methanol
B26C35	P	N/A	N/A	26.13	31.30	5.17	No Methanol
B26C35	W	37.588	37.51	37.90	42.76	4.86	10ml
B26C35	X	37.338	37.26	37.66	42.48	4.82	10ml
B26C35	Y	37.453	37.38	37.78	42.94	5.16	10ml
B26CH5	*	37.773	37.71	38.12	N/A	N/A	10ml

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.

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-080	PAGE 1 OF 1
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 Field Blank 6	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFVS - 09 - 003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 43' - 45'	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
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

0°C

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CW7	WATER	8-31-10	0845	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-31-10 1045	[illegible]	8/31/10 @ 1045
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

GRP# 20100583
Sim# 510V001850

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-068	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris / Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7680 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**	
TFVS-09-003	TFVZ-10-000004	43' to 45'	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
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

O.C

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CV4	WATER	8-31-10	0835	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Adams Dan Adams	8-31-10 1045	TM Flock	8/31/10 @1045
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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

GRP# 20100583
SAMP# S10V001858

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-147	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
7680 005	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	43' - 45'	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~ 4C
HOLDING TIME	14 Days	14 Days
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);

0°C
-18°C
RB

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26C35	SOIL	8-31-10	0935	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-31-10 1045	T.M. Colloch	8/31/10 @ 1045
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a 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.

GRP# 20100584
Stm# 510002044
Y 2045

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-014	PAGE 1 OF 1
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 9P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 I005	PROJECT DESIGNATION WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO. V10-012		
ICE CHEST NO. TFUS-09-003	FIELD LOGBOOK NO. TFV2-10-000004	ACTUAL SAMPLE DEPTH 43' - 45'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool~4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days
		TYPE OF CONTAINER	Gs*
		NO. OF CONTAINER(S)	1
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CH5	OTHER LIQUID	8-31-10	0935	✓

-18°C Rebelled 8.31.10

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-31-10 1045	T.M. Templeton	8/31/10 @ 1045
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.

** This COC addresses the one methanol process control sample collected whenever a VOA sample is collected.

0C
0

GRPH 20100584
SAM # ~~S10T00~~ rebelled
S10V002046

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-146	PAGE 1 OF 2
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 43' - 45'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14/40 Days
		TYPE OF CONTAINER	Gs jar/Liners
		NO. OF CONTAINER(S)	3
		VOLUME	160g
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

0.C

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C34	SOIL	8-31-10	0935	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-31-10 1045	TM Gilock	8/31/10 @ 1045
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

GRP# 20100554
SAM# S10V00 2047
2048
2049

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-146	PAGE 2 OF 2
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 43' - 45'	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		

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); 1668 PCB CONGENER (TCL); 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-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

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

Date Samples Received: _____ Group #: 20100583

Number of Samples: 1 set G-FAFM VADOSE C7680 I006 Y 584

Sample Custodian: RHRtad

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	~~10°C~~ 9°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 DPR Date 9-1-10

If No, comment on communication and resolution:

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-069	PAGE 1 OF 1
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 Trip Blank5	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFV2-10-000004	ACTUAL SAMPLE DEPTH 92'-94'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CV5	WATER	09/01/10	0900	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Dan Harris Dan Harris	DATE/TIME 9-1-10 1110	RECEIVED BY/STORED IN RJSteele RJSteele	DATE/TIME 9-1-10 1110	10/RX GRP # 20100583 Sam # 510V00 1859
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-081	PAGE 1 OF 1
COLLECTOR HARRIS / SWOOK	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 Field Blank 7	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFV2-10-000004	ACTUAL SAMPLE DEPTH 92-94'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CW8	WATER	01/09/10	0915	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Dan Adams Dan Adams	DATE/TIME 9-1-10 1110	RECEIVED BY/STORED IN R A Steele R A Steele	DATE/TIME 9-1-10 1110	IC/RK GRP # 20100583 SAM # 510V001851
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-149	PAGE 1 OF 1
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFUS-09-008	FIELD LOGBOOK NO. TFUZ-10-000004	ACTUAL SAMPLE DEPTH 92' 94'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days	14 Days
		TYPE OF CONTAINER	Gs*	Gs*
		NO. OF CONTAINER(S)	5	3
		VOLUME	40mL	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26C37	SOIL	9-1-10	1015	—	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Dan Harris Dan Harris	DATE/TIME 9-1-10 1110	RECEIVED BY/STORED IN RKSteele RKSteele	9-1-10 DATE/TIME 1110
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a 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.

-10U
-9U
RK

GRPH 20100584
SAMH 510V00 2066
2067

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-015	PAGE 1 OF 1
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 9P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 I006	PROJECT DESIGNATION WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO. V10-012		
ICE CHEST NO. TFUS-09-005	FIELD LOGBOOK NO. TFUZ-10-000004	ACTUAL SAMPLE DEPTH 92'-94'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool~4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days
		TYPE OF CONTAINER	Gs*
		NO. OF CONTAINER(S)	1
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CH6	OTHER LIQUID	01/09/10	1015	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Dan Harris Dan Harris	DATE/TIME 9-1-10 1110	RECEIVED BY/STORED IN RA Steele RA Steele	DATE/TIME 9-1-10 1110
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.

** This COC addresses the one methanol process control sample collected whenever a VOA sample is collected.

-10 U / RA

GRP# 20100584
SAM # S10V002068

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-148	PAGE 1 OF 2
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFUS-09-003	FIELD LOGBOOK NO. TFU2-10-000004	ACTUAL SAMPLE DEPTH 92'-94'	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14/40 Days
		TYPE OF CONTAINER	Gs jar/Liners
		NO. OF CONTAINER(S)	3
		VOLUME	160g
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C36	SOIL	9-1-10	1015	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Dan Harris Dan Harris	DATE/TIME 9-1-10 1110	RECEIVED BY/STORED IN RFSteele RFSteele	DATE/TIME 9-1-10 1110
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

DC / RFS

GRP # 20100584
SAM # S10V00 2069 A
2070 B
2071 C

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-148	PAGE 2 OF 2
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 92'-94	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		

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); 1668 PCB CONGENER (TCL); 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-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

8/30/2010 8:37 AM	WORKING COPY

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C16801 006		
Sampler Initials:	DH / SAS	**Date:**	01 Sept 10
Scale Number:	020-66-06-002	**Cal. Due Date:**	11-09-10

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)
B26C37	K	N/A	N/A	26.13	30.75	4.62	No Methanol
B26C37	L	N/A	N/A	26.08	28.68	2.60	No Methanol
B26C37	M	N/A	N/A	26.15	30.41	4.26	No Methanol
B26C37	N	N/A	N/A	26.03	29.26	3.23	No Methanol
B26C37	P	N/A	N/A	26.05	29.00	2.95	No Methanol
B26C37	W	37.680	37.59	37.99	42.83	4.84	10 ml
B26C37	X	37.491	37.44	37.83	42.81	4.98	10 ml
B26C37	Y	36.986	36.92	37.31	41.89	4.58	10 ml
B26CH6	*	37.159	37.11	37.50	N/A	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 EE-0

Date Samples Received: 9/1/10 Group #: 20100584

Number of Samples: C-Form (I007) TB-6, FB-8 20100583

Sample Custodian: C Edwards (I008) FB-9

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	Y		
RSR provided?	Y		
Verify GKI is complete	Y		on file
Check that outer custody seal is intact, if present	Y		-16 °C
Record cooler temperature in centigrade, as appropriate	Y		☐ Check if no cooler and/or no ice 0°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 OPR Date 9/2/10

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 0)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-151	PAGE 1 OF 1
COLLECTOR Campbell / Harris	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFUS - 09 - 003	FIELD LOGBOOK NO. TFUZ-10-000004	ACTUAL SAMPLE DEPTH 116' - 118	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days	14 Days
		TYPE OF CONTAINER	Gs*	Gs*
		NO. OF CONTAINER(S)	5	3
		VOLUME	40mL	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26C39	SOIL	9-1-10	1740	✓	✓

Group 20100584
S10V002499
2500

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Campbell	DATE/TIME 9-1-10 2200	RECEIVED BY/STORED IN Edwards	DATE/TIME 9/1/10 2200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

0°C

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-012-016	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 9P	DATA TURNAROUND
Campbell / Harris	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7680 I007	WMA C Sampling for CMS - Methanol Process Control Sample		V10-012		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFUS-09-003	TFUL-10-000004	116' - 118'	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	Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	Gs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

Group 20100584
S10V002501

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CH7	OTHER LIQUID	9-1-10	1740	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	9-1-10 2200	Edwards	9/1/10 2200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.

** This COC addresses the one methanol process control sample collected whenever a VOA sample is collected.

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-150	PAGE 1 OF 2
COLLECTOR Campbell / Harris	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION 7680 007	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO. TFV3-09-003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 116'-118'	**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
HOLDING TIME	14/40 Days
TYPE OF CONTAINER	Gs jar/Liners
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

20100584
S10V002502
2503
2504

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C38	SOIL	9-1-10	1740	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Campbell C-pbell	9-1-10 2200	[illegible]	9/1/10 2200	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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**

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-150	PAGE 2 OF 2
COLLECTOR Campbell / Harris	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION 7680 007	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO. TFVS - 09 - 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 116' - 118'	**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		

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); 1668 PCB CONGENER (TCL); 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-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-070	PAGE 1 OF 1
COLLECTOR Campbell / Harris	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 Trip Blank 6	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 116 – 118	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
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CV6	WATER	9-1-10	1655	✓

20100583
S10V001860

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Campbell Campbell	DATE/TIME 9-1-10 2200	RECEIVED BY/STORED IN Edwards	DATE/TIME 9/1/10 2200	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-082	PAGE 1 OF 1
COLLECTOR Campbell / Harris	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7680 Field Blank 8	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFV2-10-000004	ACTUAL SAMPLE DEPTH 116-118	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CW9	WATER	9-1-10	1710	—

20100583
S10V001852

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Campbell C-pbell	DATE/TIME 9-1-10 2200	RECEIVED BY/STORED IN Edwards	DATE/TIME 9/10 2200	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-083	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Campbell / Harris	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7680 Field Blank 9	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFV2-10-000004	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
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CX0	WATER	9-1-10	2000	—

20100583
S10V001853

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
Campbell	9-1-10 2200	Edwards	9/1/10 2200	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-152	PAGE 1 OF 2
COLLECTOR: Campbell / Harris	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: 7680 008	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFV2-10-000004	ACTUAL SAMPLE DEPTH: 142-144	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
HOLDING TIME	14/40 Days
TYPE OF CONTAINER	Gs jar/Liners
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C40	SOIL	9-1-10	2100	✓

20100584
S10V002797
2798
2799

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell C-pbell	9-1-10 2200	Edwards	9-1-10 2200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
-16°C

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-152	PAGE 2 OF 2
COLLECTOR Campbell / Harris	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFV~~8~~-09-003 S VRC 9-1-10	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 142-144	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		

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); 1668 PCB CONGENER (TCL); 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-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-012-017	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 9P	DATA TURNAROUND
Campbell / Harris	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7680 I008	WMA C Sampling for CMS - Methanol Process Control Sample	V10-012

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVS-09-003	TFVZ-10-000004	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	Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	Gs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

20100584
S10V002796

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CH8	OTHER LIQUID	9-1-10	2100	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	9-1-10 2200	Edwards E Edwards	9-1-10 2200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.

** This COC addresses the one methanol process control sample collected whenever a VOA sample is collected.

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-153	PAGE 1 OF 1
COLLECTOR Campbell / Harris	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION 7680 008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 142—144	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~ 4C
HOLDING TIME	14 Days	14 Days
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		
B26C41	SOIL	9-1-10	2100	—	—

20100584 ce 9/1/10
S10V002~~764~~ 2794
2795

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell C-pbell	9-1-10 2200	[illegible] Edwards	9-1-10 2200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a 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.

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

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C-7680 / I007		
Sampler Initials:	OH, BC	**Date:**	9-1-10
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)
B26C39	K	N/A	N/A	26.11	31.14	5.03	No Methanol
B26C39	L	N/A	N/A	26.39	31.75	5.36	No Methanol
B26C39	M	N/A	N/A	26.20	31.06	4.85	No Methanol
B26C39	N	N/A	N/A	26.58	31.90	5.32	No Methanol
B26C39	P	N/A	N/A	26.29	30.96	4.67	No Methanol
B26C39	W	37.703	37.60	38.00	43.06	5.06	10 ml
B26C39	X	37.704	37.66	38.04	43.77	5.73	10 ml
B26C39	Y	37.558	37.52	37.90	42.69	4.79	10 ml
B26CH7	*	37.418	37.34	37.74	N/A	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.

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C-7680 / I008		
Sampler Initials:	CH, BC	**Date:**	9-1-10
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)
B26C41	K	N/A	N/A	26.47	31.91	5.44	No Methanol
B26C41	L	N/A	N/A	26.29	31.61	5.32	No Methanol
B26C41	M	N/A	N/A	26.35	31.34	4.99	No Methanol
B26C41	N	N/A	N/A	26.46	32.17	5.71	No Methanol
B26C41	P	N/A	N/A	26.14	31.31	5.17	No Methanol
B26C41	W	37.249	37.17	37.53	42.02	4.49	10 ml
B26C41	X	37.735	37.69	38.08	42.59	4.51	10 ml
B26C41	Y	37.707	37.65	38.05	43.89	5.84	10 ml
B26CH8	*	37.870	37.81	38.19	N/A	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).

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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.