FINAL ANALYTICAL REPORT FOR SOIL SAMPLES FROM WASTE MANAGEMENT AREA C, CORE HOLES C8102, C8104, AND C8106, IN SUPPORT OF RCRA CLOSURE

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U.S. Department of Energy Contract DE-AC27-08RV14800

EDT/ECN: ~~N/A~~ DRF UC: N/A
Cost Center: N/A Charge Code: HGP000051
B&R Code: N/A Total Pages: 813

Key Words: Vadose, Waste Management Area, C Farm, WMA C, Site A, C1, B, WMC 2011-1, RCRA Soil Characterization, Final Analysis Report, C8102, C8104, C8106, Core Holes, 20110261, 20110761, 20110762, 20110763, 20110776, 20111028, 20111029, 20111030, 20111031, 20111362, 20111363, B2B1L8, B2B1L9, B2BD1P9, B2D1R0, B2D1R1, B2D1R2, B2D1R3, B2D1R4, B2D1P8, (continued on

Abstract: This final report contains the analytical results supporting the RCRA characterization of Vadose samples from cores 8102, 8104, and 8106 in C Farm. It also contains the results for associated field and trip blanks supporting these sampling efforts.

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APPROVED
By G. E. Bratton at 7:40 am, Jun 13, 2012
Release Approval Date

DATE:
Jun 13, 2012
HANFORD RELEASE
Release Stamp

Approved For Public Release

Key Words: (Continued from Cover Sheet) B2D1X2, B2D1R7, B2D1T1, B2D1T2, B2D1T0, B2D1R6, B2D1X4, B2D1T5, B2D1T4, B2D1X5, B2D1T9, B2D1V0, B2D1V1, B2D1T8, B2D1X6, B2D1V3, B2D1V4, B2D1V5, B2D1V2, B2D1X7, B2D1V7, B2D1V8, B2D1V9, B2D1V6, B2D1X8, B2D1W1, B2D1W2, B2D1W3, B2D1W0, B2D1X9, B2D1W5, B2D1W6, B2D1W7, B2D1W4, B2D1Y0, B2FPF1, B2FPF2, B2F9Y6, B2F9Y7, B2F9Y8, B2F9X6, B2FB27, B2F9X9, B2F9Y0, B2F9Y9, B2F9X8, B2F9X7, B2FB29, B2F9Y3, B2F9Y4, B2F9Y5, B2F9Y2, B2FB30, B2FB03, B2FB04, B2FB05, B2FB02, B2FB31, B2FB07, B2FB08, B2FB09, B2FB06, B2FB32, B2FB11, B2FB12, B2FB13, B2FB10, B2FB33, B2FB15, B2FB16, B2FB17, B2FB14, B2FB34, B2FPR7, B2FPR8, B2FPT0, B2FPT1, B2FPT2, B2FPR9, B2FYM3, B2FPT4, B2FPT5, B2FPT6, B2FPT3, B2FYM4, B2FPT8, B2FPT9, B2FPV0, B2FPT7, B2FYM5, B2FPV2, B2FPV3, B2FPV4, B2FPV1, B2FYM6, B2FPV6, B2FPV7, B2FPV8, B2FPV5, B2FYM7, B2FPW0, B2FPW1, B2FPW2, B2FPV9, B2FYM8, B2FPW4, B2FPW5, B2FPW6, B2FPW3, B2FYM9, Advanced Technologies and Laboratories, ATL, WRPS, SW-846.

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ATL Document No. 20110763 Rev.0

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Date Published
June 7, 2012

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222-S LABORATORY

FINAL ANALYTICAL REPORT FOR SOIL SAMPLES FROM WASTE MANAGEMENT AREA C, CORE HOLES C8102, C8104, AND C8106, IN SUPPORT OF RCRA CLOSURE

1.0 INTRODUCTION

This final report presents the results for the samples taken from C Farm between May 25, 2011 and November 8, 2011. The samples were analyzed in accordance with RPP-PLAN-40564, *Field Sampling and Analysis Plan for 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 Compound (TIC) Report
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
Appendix A	Waste Sampling and Characterization Facility (WSCF) Analytical Reports

2.0 SAMPLE RECEIPT AND BREAKDOWN

2.1 SAMPLE RECEIPT

A total of 8 grab samples, 21 core intervals, and 4 core interval composites from 3 separate core holes were received by the 222-S Laboratory between May 25, 2011 and November 8, 2011. In addition, two equipment blanks were received. Two of the eight grab samples (surface samples for C8104) were not analyzed because some of their hold times were exceeded (see laboratory outage below) and the samples could easily be recollected. The samples were delivered in a cooler with ice. The temperatures of the temperature blanks were measured and recorded on the

sample receipt checklists and/or the chain of custody forms. All temperature blanks were in compliance with the SW-846-specified preservation temperature of 6 °C.

2.2 222-S LABORATORY OUTAGE

From approximately June 22, 2011 to September 16, 2011, the laboratory at the 222-S complex was in outage mode due primarily to ventilation and electrical power problems and a temperature control problem early in the outage. As a result of this outage, the samples from core hole C8104 that were received at the 222-S laboratory were diverted to WSCF and then extruded and composited. These samples consisted of the surface samples and core intervals I001 through I004. The remaining core intervals, I005 through I008, were received and processed at WSCF. The extrusion and compositing of the core intervals was performed by Washington River Protection Solutions (WRPS) personnel. WSCF personnel then analyzed all samples for mercury, cyanide, pH, conductivity, ammonium, semi-volatile organic compounds (SVOC), anions, and ^{99}Tc using the Vadose water leach. These results are presented in Appendix A and are not discussed in this narrative. The composites along with the surface samples from C8104 were then returned to the 222-S Laboratory for the remaining analyses. During the outage, one equipment blank (B2B1N8) was received and remained at the 222-S Laboratory. Based on the client's instructions, this sample was to be analyzed when the facility became available; therefore, many of the shorter holding times were missed.

2.3 SAMPLE BREAKDOWN

The laboratory received each core interval as three liner samples and one shoe sample when complete core recovery was obtained. The liner samples from each core interval were extruded and described and then composited with the shoe sample. This work was performed by the WRPS geologist and chemical technologist. The WRPS geologist measured the bulk density for core liners that had sufficient recovery (see Attachments 1 and 2) and the percent moisture for all composite samples. The geologist's report is included in Attachment 7. The composite for each core interval was analyzed as described in the SAP. All core intervals had complete recovery except for intervals I001, I002, I003, I004, and I005 from core hole C8102; I002 and I003 from core hole C8104; and I005 from core hole C8106. Except for intervals I005 from core holes C8102 and C8106, the partially recovered core intervals were composited to form extended intervals (see Attachment 2).

3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results for those analytes requested in the SAP. Secondary analytes were reported only if detected. 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.

"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

"O" indicates samples that were prepared by methylene chloride extraction.

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.

Additionally, the results for ^{99}Tc with units of pCi/g do not have letter identifier in the "A#" column. These analyses were performed on the Vadose water digest as required in the FSAP.

The "Qual Flags" column in Attachment 1 contains data qualifier flags from FEAD CP-15383, *Common Requirements of the Format for Electronic Analytical Data* (FEAD), 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 is greater than 20% of the reported sample result.

"E" for radiochemistry results is used to indicate an estimated result due to interference.

"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.

"N" for all but gas chromatography/mass spectrometry (GC/MS) is used to indicate that the matrix spike (MS) recovery or matrix spike duplicate (MSD) recovery is outside of the specified range in the QAPP or SAP.

"M" for inorganic results is used to indicate that the relative percent difference (RPD) between the sample and the duplicate is greater than 30%.

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

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

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 GEA, ^{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 1 to 5 g of each 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, isotopic tin (^{117}Sn and ^{126}Sn), and antimony analysis. The digestion is modified for the ^{99}Tc analysis by using only nitric acid. This is done to eliminate the possibility of the formation of 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 and isotopic tin was prepared using additional hydrochloric acid to improve MS recoveries.

3.1.3 Water Digestion

A water digestion or leach was prepared for the anions by ion chromatography (IC), ^{14}C, and ^{3}H analyses using approximately 4 to 10 g of sample. 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

An approximately 65-gram 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, transferred to a centrifuge tube and centrifuged at 4,000 rpm for 30 minutes, and then filtered using a disposable vacuum filtration system. The filtrates were transferred to a clean bottle and then analyzed for ^{99}Tc by ICP/MS. A separate unfiltered aliquot was analyzed for conductivity.

3.2 INORGANIC ANALYSES

3.2.1 Cyanide

The cyanide analysis by distillation and spectrophotometry was performed on the grab samples, liner composite samples from core holes C8102 and C8106, and equipment blanks. All analyses met the SW-846 holding time of 14 days except for the equipment blank sample B2B1N8, which exceeded the holding time by 20 days, and one sample from core hole C8106, which exceed the holding time by 44 days. The missed holding time for the equipment blank was caused by the outage discussed above. The missed holding time for the sample from core hole C8106 was caused by laboratory error. The laboratory-required detection limit (LRDL) was met. For all batches except 31177, there were no notable issues and all quality control (QC) requirements in the SAP and the QAPP were met.

Batch 31177: The MS recovery exceeded the ±25% limit at 73%. All associated results were flagged with a "N".

3.2.2 Conductivity

The conductivity analysis was performed on the grab samples and liner composite samples from core holes C8102 and C8106. These analyses met all QC requirements in the SAP and QAPP. The SAP lists an administrative holding time requirement of 28 days. SW-846 9050A lists a holding time of 28 days for aqueous samples only. There is no promulgated holding time for the conductivity measurement of a soil sample. The conductivity analysis of the samples from core hole C8102 was performed between 29 and 55 days after sampling. For all but two of these samples, the cause of the delay in analysis was due to the extended facility outage discussed above. All other conductivity measurements were taken on the vadose water digest portion within 28 days of sampling. There were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

3.2.3 pH Analysis

The pH analysis was performed on the grab samples, liner composite samples from core holes C8102 and C8106, and equipment blanks. These analyses met all QC requirements in the SAP and QAPP. The SAP lists a pH holding time requirement of "24 hours or as soon as possible." All solid pH measurements were taken as soon as possible after liner extrusion and compositing of the sample. The sampling-to-analysis time varied from 12 hours to 264 hours (see Attachment 3). There is no correlation between pH results and time 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 soil results. One of the equipment blank samples was analyzed for pH 56 hours after sampling. This was due to the laboratory outage.

3.2.4 Mercury

Analysis for mercury by cold-vapor/atomic absorption was performed on the grab samples, liner composite samples from core holes C8102 and C8106, and equipment blanks. For all samples

analyzed, results met the QC requirements in the SAP and QAPP. For C8102, all analyses except for samples B2B1N7, B2B1N8, and B2D1X8 met the holding time of 28 days. These samples were analyzed one day, 56 days, and four days past the holding time, respectively. The holding times were missed due to the outage discussed above. This analysis met the LRDL.

3.2.5 Ion Chromatography – Ammonium

Analysis for ammonium was performed using a distillation preparation of the grab samples, liner composite samples from core holes C8102 and C8106, and equipment blanks. The SAP lists an administrative holding time of 7 days for ammonium in soil. The laboratory believes that after distillation and preservation, the holding time is 28 days based on the U.S. Environmental Protection Agency drinking water and waste water holding time for preserved aqueous samples. There is no regulatory holding time limit promulgated for ammonium in soil. All samples met the administrative holding times. These analyses met the LRDL listed in the SAP except for 3 samples whose MDLs were slightly elevated, ranging from 0.53 µg/g to 0.58 µg/g.

Batches 28248, 28324, 28396, 28554, 28656, 30978, 31053, 31341, and 31412: There were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

Batch 28126: Ammonium was detected in the preparation blank at a level below the quantitation limit and above the MDL. Ammonium was also detected in the samples at less than five times the blank level. The results were flagged with a "C". Since all results were below the quantitation limit, reanalysis was not required.

Batch 28559: The RPD exceeded the required 30%. Since the result for this analyte was below the quantitation limit, the criterion does not apply and reanalysis is not required.

Batch 29020: Ammonium was detected in the preparation blank at a level below the quantitation limit and above the MDL. Ammonium was not detected in the sample, therefore the data usability was not affected.

3.2.6 Ion Chromatography – Anions and Small Organic Acids

IC analysis was performed on a standard water digest of subsamples of the grab samples, liner composite samples from core holes C8102, C8104, and C8106, and equipment blanks. Only the small organic acids were reported from the IC analysis performed at the 222-S Laboratory for core hole C8104. The anions were reported from the analysis performed at WSCF (see Appendix A).

The laboratory met all of the LRDLs. SW-846 lists the holding time for anion analysis as 48 hours for nitrate, nitrite, and phosphate and 28 days for fluoride bromide, chloride, and sulfate. There is no holding time in SW-846 for small organic acids. All SW-846 holding times were met. The holding time for soils samples does not start until the water digest is performed. The sample spikes used for the standard water digestions are predigestion spikes.

Batches 28516, 28998, and 29701: There were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

Batch 29040: The result for nitrite in the preparation blank was above the MDL but below the quantitation limit. All sample results less than five times the blank result have been flagged with a "C". Since all blank and sample results were below the quantitation limit, the usability of the data was not affected.

Batches 30862: The RPD for formate exceeded the 30% requirement in the SAP. Since the results for this analyte were below the quantitation limit, this criterion does not apply. The result for formate in the preparation blank was above the MDL but below the quantitation limit. All sample results that were less than five times the blank result have been flagged with a "C". Since all blank and flagged sample results were below the quantitation limit, the usability of the data was not affected.

Batches 31809: The RPD for formate exceeded the 30% requirement in the SAP. Since the results for this analyte were below the quantitation limit, this criterion does not apply. The result for sulfate in the preparation blank was above the MDL but below the quantitation limit. All sample results were more than five times the blank result, and the usability of the data was not affected.

Batch 31881: The result for nitrite in the preparation blank was above the MDL but below the quantitation limit. All sample results less than five times the blank result have been flagged with a "C". Since the blank and flagged sample results were below the quantitation limit, the usability of the data was not affected. The MS recovery for phosphate exceeded the ±25% requirement at 48%. An MSD was prepared and analyzed with a similar result. This was discussed with the client, and the laboratory was instructed to report the results with narration (see Attachment 8). All phosphate results in this batch have been flagged with an "N". The RPD for fluoride exceeded the 30% requirement in the SAP at 80%. Duplicate analysis for fluoride frequently exceeds the RPD limit in Vadose soil. This was discussed with the client, and the laboratory reported the results with an "M" flag applied to all fluoride results in the batch.

Batch 32235: The result for nitrite in the preparation blank was above the MDL but below the quantitation limit. All sample results were more than five times the blank result and, therefore, have not been flagged. The matrix spike recovery for phosphate exceeded the ±25% requirement at 59%. Since this was a reanalysis of a previous failure of the phosphate, additional analysis was not requested and all phosphate results in this batch have been flagged with an "N".

3.2.7 Inductively Coupled Plasma/Atomic Emission Spectroscopy

The ICP/AES analysis was performed on an acid-digest (SW-846 3050B) of the grab samples, all liner composite samples, and directly on the equipment blanks. The ICP/AES analysis was unable to obtain the LRDLs for antimony, arsenic, cadmium, lead, selenium, silver, and thallium. For the soil samples, 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 LRDLs in the SAP. For the soil sample, the isotopic uranium analysis by ICP/MS met the LRDL for ^{238}U, which is essentially total uranium. The overall data usability was not affected.

All metal results except for nine chromium, nineteen molybdenum, and five nickel met the LRDL. Since this was not discovered until after the expiration of the holding time, reanalysis

was not performed. SW-846 lists the holding time for ICP/AES metals as 6 months. All analyses met the holding time.

Batch 30224: The recovery for cadmium in the closing interference check standard-AB (ICSAB) was below the ±20% requirement at 78%. Since cadmium was not detected in the sample, reanalysis was not performed. This batch contained only two equipment blanks.

Batch 30468: The MS recovery for sodium exceeded the ±25% requirement in the SAP. Since the sample results for this element exceeded the MS level by more than four times, this criterion does not apply.

Batch 30783: The RPD for praseodymium exceeded the required 30% in the SAP at 40.6%. Since the sample result was below the estimated quantitation limit, reanalysis was not required. The laboratory control sample (LCS) for potassium exceeded the required ±20% in the SAP at 77%. This was discussed with the client (see Attachment 8), and the results were accepted with narration. Results for potassium may be biased low. The LCS for silicon exceeded the ±20% requirement in the SAP; since silicon is not a primary analyte, reanalysis was not performed.

The MS recoveries for aluminum, calcium, iron, magnesium, manganese, phosphorous, potassium, and titanium exceeded the ±25% requirement in the SAP. Since the sample results for these elements exceeded the MS level by more than four times, this criterion does not apply. The MS recoveries for silicon, vanadium, and zirconium exceeded the ±25% requirement and have been flagged with an "N". Silicon and zirconium were recovered below the 75% requirement in the SAP. The SW-846 digestion does not perform consistently for these elements. The results for zirconium and silicon should be considered biased low. Since these are secondary analytes, reanalysis was not required. .The MS recovery for vanadium was 137%. This could indicate that the vanadium results in this batch are biased high. However, since these results fall within the expected range in vadose zone soils, the laboratory does not believe there is a significant high bias in these results.

Due to inter-element interferences, the elements boron, europium, niobium, neodymium, and ruthenium have not been reported even though they had been detected in the samples. The laboratory believes that these results are likely due to uncorrected inter-element interferences. These are all secondary analytes. Rubidium, also a secondary element, was not reported due to a failed continuing calibration verification (CCV).

Batch 31804: The LCS recovery for potassium exceeded the ±20% requirement in the SAP at 79%. This could indicate that the results were biased low. This was discussed with the client, and the laboratory was instructed to report the results with this narration. The preparation blank result for calcium and zinc were above the MDL but less than 20% of the sample results, therefore the data usability was not affected. The MS recoveries for aluminum, calcium, iron, magnesium, manganese, phosphorous, potassium, sodium, and titanium exceeded the ±25% requirement in the SAP. Since the sample results for these elements exceeded the MS level by more than four times, this criterion does not apply. The MS recoveries for barium, strontium, silicon, and zirconium exceeded the ±25% requirement and have been flagged with an "N". Silicon and zirconium are secondary analytes, so reanalysis is not required. Barium and strontium were recovered at 127% and 133%, respectively, which may indicate the results were biased high.

However, the result for barium and strontium were within the expected range for C Farm soil samples. This was discussed with the client (see Attachment 8), and the laboratory was instructed to report the results with this narration.

Batch 31996: The preparation blank result for calcium was above the MDL but less than 20% of the lowest sample result, therefore the data usability was not affected. The MS recoveries for aluminum, calcium, iron, magnesium, phosphorous, potassium, sodium, and titanium exceeded the ±25% requirement in the SAP. Since the sample results for these elements exceeded the MS level by more than four times, this criterion does not apply. The MS recoveries for silicon, sulfur, and zirconium exceeded the ±25% requirement and have been flagged with an "N". Silicon and zirconium are secondary analytes, so reanalysis is not required. The low sulfur recovery of 59% may be due sample inhomogeneity. The RPD for zirconium exceeded the required 30% in the SAP at 47%. No reanalysis was required, since zirconium is a secondary analyte. All result have been flagged with an "M".

The ICSABs recoveries for bismuth exceeded the 20% criterion at 130% and 137%. This may indicate that bismuth results may be biased high. Since bismuth is a secondary analyte, reanalysis was not required.

3.2.8 Inductively Coupled Plasma/Mass Spectroscopy

The ICP/MS actinide and trace metal analyses were performed on the standard SW-846 3050B acid digestion of the grab samples and the liner composite samples. ICP/MS analysis for ^{126}Sn and antimony was performed on the same digest with additional hydrochloric acid, which is required to keep tin and antimony in solution. For all samples, the ICP/MS ^{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 zinc-chloride ion pair of mass 99. In addition, ^{99}Tc was analyzed using the vadose water digest. The equipment blanks were analyzed directly for actinides, ^{126}Sn, and ^{99}Tc using ICP/MS.

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

Technetium-99

The MDL for the water digested aliquot for ^{99}Tc met the LRDL but the acid digested aliquot MDL did not. The SAP lists the holding time for isotopic analytes as 6 months. All samples were analyzed within the holding time.

The acid-digested ^{99}Tc analysis is subject to isobaric interference from natural ruthenium, cobalt argide, and zinc chloride ions. However, these samples were analyzed using an ICP/MS with a collision cell, which eliminates the polyatomic interferences. Interference from natural ^{99}Ru seems unlikely since none of the more abundant nature isotopes (100, 101, and 102) were detected. There were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

Tin-126 and Antimony

For the solid samples, antimony and ^{126}Sn were analyzed from the same digest because of the need for additional hydrochloric acid, which results in better MS recoveries but appears to cause an isobaric interference with ^{126}Sn. 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. A preliminary investigation indicated that using an ICP/MS with a collision cell will eliminate this interference. However, the instrument needed for this analysis is not currently able to operate in a "semi-quantitative" mode. The laboratory is currently working on resolving this issue. Based on the client's earlier instructions (see Attachment 8), samples with a positive result for ^{126}Sn have been flagged with an "E". The SAP lists the holding time for isotopic analytes as 6 months. All but seven samples were analyzed within the holding time. The LRDL for antimony was met.

Batches 32578, 32723, 32724, and 32945: There were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

Batch 30084: The result for antimony in the preparation blank was above the MDL but below the estimated quantitation limit and less than 20% of the lowest sample result. Therefore, no data qualifier was applied and the usability of the data was not affected.

Actinides

The LRDLs were met for all isotopes in all samples except for ^{233}U. The SAP lists the holding time for isotopic analytes as 6 months. Due to laboratory error, 5 of the 30 samples were analyzed outside of the holding time (see Attachment 3).

Batches 30006 and 32708: There were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

Batch 32364: The MS recovery for ^{238}U was slightly above the 75% to 125% requirement at 127%. The ^{238}U results from this batch have been flagged with an "N".

Batch 32373: The RPD between the sample and the duplicate for ^{234}U exceeded the 30% requirement in the SAP. However, the results were below the estimated quantitation limit, therefore this criterion does not apply.

Trace Metals

Arsenic, cadmium, lead, selenium, silver, and thallium were analyzed by ICP/MS to obtain the LRDL in the SAP. Except for the LRDL for selenium, all LRDLs were met or the sample results were above the quantitation limit and the sample detection limit criteria do not apply. The LRDL for selenium was more than 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 soil results was approximately 0.3 µg/g to 0.6 µg/g. SW-846 lists the holding time for metals as 6 months. All samples were analyzed within the holding time (see Attachment 3).

Batch 32130: The result for silver in the preparation blank was above the MDL but below the estimated quantitation limit. All sample results have been flagged with a "C". Since the blank and sample results were below the estimated quantitation limit, reanalysis was not required and the usability of the data was not affected.

Batch 32368: The recovery for the mid-run CCV for lead was above the 110% acceptance criteria at 112%. This could indicate a high bias in the sample results. However, since the LCS and MS recoveries were within the 75% to 125% acceptance range and the sample results for lead were typical of C Farm soils, the laboratory believes these results are not significantly biased high. The mid-run CCV recovery for selenium was high at 115%. Since all selenium results were below the MDL, the data usability was not affected. The preparation blank results for selenium were above the MDL and below the estimated quantitation limit. Since all sample results for selenium were below the MDL, there was no affect on the usability of the data. The preparation blank result for thallium was above the MDL and below the estimated quantitation limit, but was greater than 20% of all sample results, which have been flagged with a "C". Since all results, blank and sample, were below the estimated quantitation limit, reanalysis was not required, and the usability of the data was not affected.

Batch 32689: The result for arsenic in the preparation blank was above the MDL but below the estimated quantitation limit. All sample results for which the adjusted blank result was greater the 20% of the sample result have been flagged with a "C". Since the blank result was below the estimated quantitation limit, reanalysis was not required and the usability of the data was not affected.

Batch 34232: The LCS and MS recoveries for arsenic were low at 75.4% and 73.5. Additionally, the closing CCV recovery for arsenic was below the 90% requirement at 87%. These samples would typically be redigested and reanalyzed, but the low recoveries were not discovered until after the holding time had expired. This could indicate the results are biased low. However, it should be noted that the average result for arsenic in a C Farm sample is 3.4 µg/g (σ^2=1.2 µg/g). For this batch of ten samples it was 3.5 µg/g (σ^2=1.0 µg/g). This was discussed with the client and the laboratory was instructed to report these results with narration (see Attachment 8). The blank result for thallium was above the MDL but below the estimated quantitation limit and less

than 20% of the lowest sample result. There the data usability was not affected and reanalysis was not required.

Batch 34910: The closing low level standard (LLS) for thallium exceeded the 130% requirement at 142%. Since the sample results are near the LLS, they could be considered biased high. In addition, the result for thallium in the preparation blank was above the estimated quantitation limit as were all but two of the nine samples in this batch. All results were flagged with a "C". The average sample result for thallium in this batch was 0.24 µg/g (σ^2=.054 µg/g). The average result for the other 21 samples in this report was 0.12 µg/g (σ^2=0.012 µg/g). This indicates that whatever produced the elevated blank also affected the sample results. Typically, these samples would be reanalyzed. However, since a reanalysis would be beyond the holding time, the client instructed the laboratory to report the results with this narration (see Attachment 8).

3.3 RADIOCHEMICAL ANALYSIS

The holding time listed in the SAP for radioactive isotopes is 6 months. All samples were analyzed within the required holding time except for the following:

- Five samples from C8102 for ^{63}Ni were analyzed originally within the holding time but were reanalyzed 1-10 days after the holding time expired to address low-level false positive results in the original analyses.

- One plutonium and americium analysis from C8102 missed the required holding time. This was due to the reanalysis associated with the confirmation of the false positive results discussed in sections 3.3.8 and 3.3.9 below. The reanalysis exceeded the holding time by 2 weeks.

The laboratory does not believe the usability of the data was affected by these excursions. The holding time tables for these analytes are included in Attachment 3.

With the exception of the ^{14}C and ^{3}H analyses, tracers, carriers, and spikes are added prior to digestion.

3.3.1 Gamma Energy Analysis

GEA was performed directly on approximately 125-mL aliquots from the grab samples, liner composite samples, and the equipment blanks. 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 the LRDLs listed in the SAP for approximately one quarter of the results. Except for ^{228}Th and ^{234}Th, the MDAs for most of those missed were between two and three times the LRDL. There was insufficient sample provided to meet all of the LRDLs listed in the SAP.

Batch 28430: The RPDs for ^{40}K and ^{214}Bi exceeded the 30% requirement in the SAP. Since these were not required analytes, reanalysis was not performed.

Batch 28514: The blank contained ^{214}Pb above the quantification level, as did the sample. The result for ^{214}Pb has been flagged with a "B". Since ^{214}Pb is not a required analyte, reanalysis was not required. This positive result was most likely due to elevated levels of radon in the counting room at 222-S.

Batch 28853: The blank contained ^{226}Ra above the quantitation level, as did the samples. The results for ^{226}Ra have been flagged with a "B". Since ^{226}Ra is not a required analyte, reanalysis was not required.

Batch 29023: The method blank contained ^{214}Pb at a level that exceeded 20% of the sample result. Since all results were below the quantitation limit, reanalysis was not required. The sample result for ^{214}Pb has been flagged with a "B".

Batch 30870: The RPDs for ^{228}Ac and ^{214}Bi exceeded the 30% requirement in the SAP. Since these were not required analytes, reanalysis was not performed. The blank contained ^{228}Ac above the quantification level, as did the sample. The results for ^{228}Ac have been flagged with a "B". Since ^{228}Ac is not a required analyte, reanalysis was not required.

Batch 31523: The RPDs for ^{228}Ac, ^{40}K, ^{208}Tl, and ^{212}Pb exceeded the 30% requirement in the SAP. Since these were not required analytes, reanalysis was not performed.

3.3.2 Strontium-89/90

Strontium-89/90 analysis was performed on the grab samples, liner composite samples, and equipment blanks. All of the sample analyses met the LRDL in the SAP. The 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.

Batches 28524 and 31865: There were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

Batch 29076: The method blank result for $^{89/90}$Sr was slightly above the MDA. Since the sample result was below the MDA, there was no effect on the data quality.

Batch 30429: The RPD exceeded the 30% requirement in the SAP. The laboratory believes this was caused by matrix inhomogeneity. This was discussed with the client, and the laboratory was instructed to report the results with this narration. Since there is no FEAD data qualifier for missing a precision limit for radiochemical analyses, none has been applied.

Batch 31540: The method blank result for $^{89/90}$Sr was slightly above the MDA. The results for all samples except two were below the MDA. Since the two positive results were 27 and 40 times the adjusted blank result no "B" flag was applied. Therefore, the data usability was not affected by the low level of $^{89/90}$Sr detected in the preparation blank.

3.3.3 Tritium

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

3.3.4 Selenium-79

The ^{79}Se analysis by LSC was performed on the grab samples, liner composite samples, and equipment blanks. The analysis achieved the LRDL in the SAP. No standard is currently available for ^{79}Se; a cold carrier is used to monitor recovery and is measured gravimetrically. The ^{14}C LSC curve is used to determine the ^{79}Se results since their energies are similar. This analysis met the LRDL.

Batch 28665: The preparation blank demonstrated a positive result below the quantitation limit with a large counting error, as did the sample and duplicate. The sample has been flagged with a "B". These very low positive results were caused by an elevated quench, resulting in insufficient background subtraction. These results should be considered false positives and have been flagged with an "E". Since all results were below the quantitation limit, reanalysis was not required. The sample in this batch was an equipment blank.

Batches 29584, 30608, and 31880: There were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

Batch 31694: Four samples demonstrated positive results below the quantitation limit with a large counting error. These very low positive results were caused by an elevated quench, resulting in insufficient background subtraction. These results should be considered false positives and have been flagged with an "E". Since all results were below the quantitation limit, reanalysis was not required.

3.3.5 Carbon-14

The ^{14}C analysis by LSC was performed on a water leach of the grab samples, liner composite samples, and equipment blank. With the exception of two samples, the analysis achieved the LRDL listed in the SAP. This analysis will only detect water soluble forms of ^{14}C. Except for batch 32088, there were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

Batch 32088: The preparation blank demonstrated a positive result below the quantitation limit with a large counting uncertainty. Since the two samples in this batch were below the MDA, the usability of the data was not affected.

3.3.6 Nickel-63

The ^{63}Ni analysis by LSC was performed on the grab samples, liner composite samples, and equipment blanks. The analysis achieved the LRDL in the SAP. There were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

3.3.7 Iodine-129

Analysis for ^{129}I by low energy GEA was performed on the grab samples, liner composite samples, and equipment blanks. The analysis achieved the LRDL in the SAP. There were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

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

Analysis for ^{241}Am, $^{243/244}$Cm, and ^{242}Cm by alpha energy analysis (AEA) was performed on the grab samples, liner composite samples, and equipment blanks. The analysis achieved the LRDL in the SAP. The SAP 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.

The laboratory reanalyzed four samples to confirm positive results for ^{241}Am. Two of the five results were not confirmed. These were the surface sample from C8102 and the 188' to 190' interval from C8102. The laboratory believes the original results were false positives. The results from reanalysis have been reported in Attachment 1. A comparison of these results can be found in Table 2 below. It should be noted that other isotopes (^{137}Cs and $^{89/90}$Sr) indicative of tank contamination were detected in the C8102 surface sample. This sample was analyzed four times (counting batch duplicates), and only one of the four analyses produced a positive result for ^{241}Am. Additionally, the analysis of the surface duplicate sample did not produce a positive result for ^{241}Am.

Batch 29111: The only sample in this batch was an equipment blank. The result for ^{241}Am was above the MDA. Since this result was below the quantitation limit, reanalysis was not performed. The preparation blank result for ^{242}Cm was slightly above the MDA. Since the sample result was below the MDA there was no affect on the usability of the data, and reanalysis was unnecessary.

Batches 30428, 31535, 31888, and 32786: There were no notable issues with these batches, and all QC requirements in the SAP and the QAPP were met.

Batche 31721: The preparation blank result for $^{234/244}$Cm was above the MDA. Since the sample result was below the MDA, reanalysis was not required.

Batche 33017: The preparation blank result for ^{241}Am was above the MDA. Since the sample result was below the MDA, reanalysis was not required.

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, liner composite samples, and equipment blanks. With the exception of batch 29110, there were no notable issues with any batches and all QC requirements in the SAP and the QAPP were met. The analysis achieved the LRDL in the SAP.

The laboratory reanalyzed four samples to confirm positive results for $^{239/240}$Pu. Two of the four results were not confirmed. These were the surface sample from C8102 and the 188' to 190' interval from C8102. The laboratory believes the original results were false positives. The results from reanalysis have been reported in Attachment 1. A comparison of these results can be found in Table 2 below. It should be noted that other isotopes (^{137}Cs and $^{89/90}$Sr) indicative of tank contamination were detected in the C8102 surface sample. This sample was analyzed four times, and only one of the four analyses produced a positive result for $^{239/240}$Pu. Additionally, the analysis of the surface duplicate sample did not produce a positive result for $^{239/240}$Pu.

Batch 29110: The RPD for $^{239/240}$Pu exceeded the 30% requirement in the SAP. However, since the sample result was below the quantitation limit, this criterion does not apply.

Customer Sample ID	Sample Depth	Lab ID	Analyte	Unit	Original Result	Reanalysis Result
B2B1L8	Surface	S11V004734	Americium-241	uCi/g	6.27E-08	<2.86E-08
B2B1L8	Surface	S11V004724	Cesium-137	uCi/g	4.37E-06	na
B2B1L8	Surface	S11V004734	Plutonium-239/240	uCi/g	9.47E-08	<2.79E-08
B2B1L8	Surface	S11V004735	Strontium-89/90	uCi/g	1.74E-05	na
B2B1L9	Surface Dup	S11V004740	Cesium-137	uCi/g	4.17E-06	na
B2B1L9	Surface Dup	S11V004752	Strontium-89/90	uCi/g	2.40E-05	na
B2D1X9	188'-190'	S11V004950	Americium-241	uCi/g	6.06E-08	<2.68E-08
B2D1X9	188'-190'	S11V004950	Plutonium-239/240	uCi/g	2.06E-07	<3.68E-08

3.4 ORGANIC ANALYSES

3.4.1 Semivolatile Organic Analysis

The semivolatile organic analysis (SVOA) by GC/MS was performed on methylene chloride extractions of the equipment blanks, all grab samples, and all liner composite samples except interval I005 from core hole C8102 and all samples from C8104. The interval I005 from C8102 did not have sufficient sample, and the C8104 SVOA was performed at WSCF. All holding times were met except for the equipment blank associated with C8104 and interval I001 from C8106. These holding times were missed due to various outages mentioned in Section 2.2. All primary compounds are reported in each sample. Secondary compounds are only reported if detected in the sample. Pentachlorophenol is a secondary compound but has been reported in all samples at the client's request.

The SVOA analysis met the LRDLs with two exceptions:

- The adjusted MDLs for cyclohexanone were above the 0.5-mg/kg LRDL 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 LRDL 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.

For samples with statistical process control (SPC) limits, the LCS, MS, and MSD recoveries were compared against the SPC limits, as required by SW-846. The use of SPC limits is permitted in the FSAP, SAP, and QAPP. For compounds without SPC limits, administrative limits of 70% to 130% were used. The results of surrogate, LCS, and MS/MSD analyses are contained in Attachment 4. The only compounds that were not contained in the LCS, MS, or MSD were pentachlorophenol and tri-n-butylphosphate. Most compounds do not have SPC limits since the laboratory only just began to use a "full spike list." As instructed in SW-846, administrative limits of 70% to 130% were used for compounds without SPC limits. As required by FEAD, a "T" flag has been applied to the associated result if the MS or MDS percent recovery was outside of this limit. Since there is no FEAD flag for LCS % recoveries, none was applied. Only compounds with spike recoveries exceeding SPC limits are discussed in the narrative below.

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 28328, 28602, 29101, and 31701: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and QAPP were met.

Batch 28631: The percent recovery in the MSD for pyrene exceeded the upper limit of 106% at 107%. The FEAD requires that a "T" be applied to the results for pyrene in this batch. The QAPP only requires evaluation of the MSD for the RPD, which was 13% and within the acceptance criterion of 30% in the SAP.

Batch 28641: The percent recoveries in the MS for 1,2,4-trichlorobenzene and pyrene exceeded the lower SPC limits for these compounds. The sample results have been flagged with a "T". Since the sample was an equipment blank, reanalysis was not performed. The RPDs between the MS and MSD exceeded the 30% in the SAP for hexachloroethane and hexachlorobutadiene at 44% and 63%, respectively. Since the sample results of these compounds were "non-detect," reanalysis was not required.

Batch 31350: The MS and MSD experienced high recoveries for 4-chloror-3-methylphenol and pyrene. Since the results for all of these compounds were below the MDL, the data quality was not affected and reanalysis was not required. The results for these compounds have been flagged with a "T". The LCS recoveries for pyrene and 4-chloror-3-methylphenol exceeded the statistically derived control limits. Since the results for these compounds were below the MDL, the data quality was not affected and reanalysis was not required.

Batch 31704: The MS and MSD experienced a high recovery for pyrene. Since the result for this analyte was below the MDL, the data quality was not affected and reanalysis was not required. The results for these compounds have been flagged with a "T". The LCS recovery for pyrene exceeded the statistically derived control limit. Since the result for this compound was below the MDL, the data quality was not affected and reanalysis was not required. The surrogate terphenyl-d14 exceeded the statistically derived control limits at 132% in the MSD. Since the MSD is used to evaluate precision and all RPDs were acceptable, there was no affect of the high surrogate on the data usability.

3.4.2 Polychlorinated Biphenyls Analysis

Polychlorinated biphenyls (PCB) analysis was performed on methylene chloride extractions of all grab samples, liner composite samples from 5.7' to 9.7' and 11.5' to 15.5' intervals, and the equipment blanks. The SAP required PCB analysis of the 65' to 67' interval, but due to lack of sample, this analysis was not performed. The accelerated solvent extraction method was used for the solid sample analysis, and solid sample results were corrected to the dry weight of the sample. The LCS, MS, and MSD consisted of only Aroclor-1254 because it is the most common Aroclor detected in Hanford Site samples. All Aroclors except for 1016 met the 20 µg/kg LRDL. The detection limit for Aroclor 1016 was between 20 µg/kg and 29 µg/kg. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and QAPP were met.

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. Core holes C8102 and C8106 had detectable TICs but C8104 did not. A blank TIC report for C8104 is included in Attachment 5 as evidence that the Laboratory Information Management System report was produced.

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 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 a "B".

4.0 PROCEDURES

Table 3 lists the procedures used in analyzing the samples contained in this report.

Table 3. Analytical Procedures

Analysis	Preparation Method	Analysis Procedure
Inorganic Analyses		
Cyanide	LA-695-103, Rev. J-0, K-0, M-0 (solid) LA-695-102, Rev. L-0 (liquid) (SW-846 9010C)	LA-695-103, Rev. J-0, K-0, M-0 (solid) LA-695-102, Rev. L-0 (liquid) (SW-846 9014)
Conductivity	LA-504-102, Rev. A-0 Vadose Water Digest	LA-512-107, Rev. G-0
pH	LA-212-105, Rev. H-0 (SW-846 9045D)	LA-212-105, Rev. H-0 (SW-846 9045D) LA-212-106, Rev. I (SW-846-9040C)
Mercury – Cold Vapor Atomic Absorption	LA-325-110, Rev. A-0 (SW-846 7470A, 7471B)	LA-325-110, Rev. A-0 (SW-846 7470A, 7471A)
Ammonia – IC	LA-544-112, Rev. E-0	LA-533-101, Rev. Q-0
Anions & Organic Acids – IC	LA-504-101, Rev. M-0	LA-533-115, Rev. K-0 SW-846 9056A
Metals – ICP /AES	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-505-161, Rev. J-0-A, K-0 (SW-846 6010C)
^{99}Tc, ^{126}Sn – ICP/MS	Direct	LA-506-102, Rev. F-1 LA-506-103, Rev. B-0
^{99}Tc – ICP/MS	LA-504-102, Rev. A-0 (Vadose Water Digest) LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-103, Rev. B-0
Sb, ^{126}Sn, – 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. J-0 LA-508-167, Rev. A-0
$^{89/90}$Sr – Separation/GPC	Digestion LA-544-101, Rev. H-0 Separation LA-220-103, Rev. K-0 (solid) LA-220-104, Rev. J-0-A (liquid)	LA-508-124, Rev. B-0 LA-508-114, Rev. G-0
^{3}H – LSC	Digestion LA-504-101, Rev. M-0 Separation LA-218-116, Rev. A-0	LA-508-121, Rev. G-0

Table 3. Analytical Procedures

Analysis	Preparation Method	Analysis Procedure
^{14}C – LSC	Digestion LA-504-101, Rev. M-0 Separation LA-348-104, Rev. J-0	LA-508-121, Rev. G-0
^{79}Se – Separation/LSC	Digestion LA-544-101, Rev. G-0, H-0 Separation LA-365-132, Rev. J-0	LA-508-121, Rev. G-0
^{63}Ni – Separation/LSC	Digestion LA-544-101, Rev. G-0, H-0 Separation LA-285-102, Rev. E-0, F-0	LA-508-121, Rev. G-0
^{129}I – Separation/GEA	LA-378-105, Rev. E-0	LA-508-167, Rev. A-0
^{241}Am, $^{243/244,\ 242}Cm$ – Separation/AEA	Digest LA-544-101, Rev. H-0 Separation LA-953-104, Rev. I-0	LA-508-168, Rev. A-0
$^{239/240,\ 238}Pu$ – Separation/AEA	Digest LA-544-101, Rev. H-0 Separation LA-953-104, Rev. I-0	LA-508-168, Rev. A-0
Organic Analyses		
SVOC – GC/MS	LA-523-115, Rev. H-0 (SW-846 3520C) LA-523-138, Rev. H-0 (SW-846 3540C)	LA-523-135, Rev. D-0-A SW-846 8270D
PCB – GC/Electron Capture Detector	LA-523-115, Rev. H -0 (SW-846 3520C) LA 523-144, Rev. D-0 (SW-846 3545A)	LA-523-140, Rev. G-0 SW-846 8082A

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Attachment 1

DATA SUMMARY REPORT

06 - Jun - 2012 12:55:26
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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110761
Core Number: C8102
Customer Sample ID: B2B1N7
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004715	O	12674-11-2	Aroclor 1016	ug/L	n/a	<5.40	<5.40	n/a	n/a	n/a	n/a	5.40	n/a	U
S11V004715	O	11104-28-2	Aroclor 1221	ug/L	n/a	<1.01	<1.01	n/a	n/a	n/a	n/a	1.01	n/a	U
S11V004715	O	11141-16-5	Aroclor 1232	ug/L	n/a	<1.17	<1.17	n/a	n/a	n/a	n/a	1.17	n/a	U
S11V004715	O	53469-21-9	Aroclor 1242	ug/L	n/a	<1.80	<1.80	n/a	n/a	n/a	n/a	1.80	n/a	U
S11V004715	O	12672-29-6	Aroclor 1248	ug/L	n/a	<1.01	<1.01	n/a	n/a	n/a	n/a	1.01	n/a	U
S11V004715	O	11097-69-1	Aroclor 1254	ug/L	73.5	<0.371	<0.371	n/a	n/a	n/a	81.5	0.371	n/a	U
S11V004715	O	11096-82-5	Aroclor 1260	ug/L	n/a	<4.09	<4.09	n/a	n/a	n/a	n/a	4.09	n/a	U
S11V004715	O	120-82-1	1,2,4-Trichlorobenzene	ug/L	18.1	<25.5	<25.5	n/a	n/a	n/a	19.4	25.5	n/a	UT
S11V004715	O	95-50-1	1,2-Dichlorobenzene	ug/L	16.9	<71.1	<71.1	n/a	n/a	n/a	15.2	71.1	n/a	UT
S11V004715	O	121-14-2	2,4-Dinitrotoluene	ug/L	60.4	<13.5	<13.5	n/a	n/a	n/a	65.0	13.5	n/a	U
S11V004715	O	95-95-4	2,4,5-Trichlorophenol	ug/L	61.5	<16.3	<16.3	n/a	n/a	n/a	65.5	16.3	n/a	UT
S11V004715	O	88-06-2	2,4,6-Trichlorophenol	ug/L	62.8	<17.2	<17.2	n/a	n/a	n/a	65.6	17.2	n/a	UT
S11V004715	O	95-48-7	2-Methylphenol	ug/L	64.2	<20.6	<20.6	n/a	n/a	n/a	70.5	20.6	n/a	U
S11V004715	O	88-75-5	2-Nitrophenol	ug/L	59.7	<22.4	<22.4	n/a	n/a	n/a	63.3	22.4	n/a	UT
S11V004715	O	65794-96-9	3 &4 Methylphenol	ug/L	65.3	<20.6	<20.6	n/a	n/a	n/a	72.1	20.6	n/a	U
S11V004715	O	83-32-9	Acenaphthene	ug/L	46.2	<25.2	<25.2	n/a	n/a	n/a	51.7	25.2	n/a	U
S11V004715	O	56-55-3	Benzo(a)anthracene	ug/L	54.3	<17.2	<17.2	n/a	n/a	n/a	61.1	17.2	n/a	UT
S11V004715	O	205-99-2	Benzo(b)fluoranthene	ug/L	55.9	<16.5	<16.5	n/a	n/a	n/a	62.0	16.5	n/a	UT
S11V004715	O	50-32-8	Benzo(a)pyrene	ug/L	54.0	<15.5	<15.5	n/a	n/a	n/a	59.6	15.5	n/a	UT
S11V004715	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/L	51.3	<51.2	<51.2	n/a	n/a	n/a	54.0	51.2	n/a	UT
S11V004715	O	207-08-9	Benzo(k)fluoranthene	ug/L	56.5	<15.8	<15.8	n/a	n/a	n/a	63.7	15.8	n/a	UT
S11V004715	O	85-68-7	Butylbenzylphthalate	ug/L	54.2	<14.7	<14.7	n/a	n/a	n/a	60.9	14.7	n/a	UT
S11V004715	O	59-50-7	4-Chloro-3-methylphenol	ug/L	67.7	<17.4	<17.4	n/a	n/a	n/a	74.0	17.4	n/a	U
S11V004715	O	95-57-8	2-Chlorophenol	ug/L	65.4	<23.9	<23.9	n/a	n/a	n/a	69.9	23.9	n/a	U
S11V004715	O	218-01-9	Chrysene	ug/L	54.0	<16.5	<16.5	n/a	n/a	n/a	59.7	16.5	n/a	UT
S11V004715	O	53-70-3	Dibenz[a,h]anthracene	ug/L	55.6	<15.5	<15.5	n/a	n/a	n/a	61.0	15.5	n/a	UT
S11V004715	O	84-74-2	Di-n-butylphthalate	ug/L	55.9	<14.9	<14.9	n/a	n/a	n/a	64.1	14.9	n/a	UT
S11V004715	O	117-84-0	Di-n-octylphthalate	ug/L	44.7	<17.0	<17.0	n/a	n/a	n/a	50.0	17.0	n/a	UT

NA = Not Analyzed, ND = Not Detected

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

C Farm 2011-C8102
Data Summary Report

Sample Group: 20110761
Core Number: C8102
Customer Sample ID: B2B1N7
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004715	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/L	64.1	<23.9	<23.9	n/a	n/a	n/a	71.3	23.9	n/a	U
S11V004715	O	206-44-0	Fluoranthene	ug/L	51.8	<15.3	<15.3	n/a	n/a	n/a	59.2	15.3	n/a	UT
S11V004715	O	87-68-3	Hexachlorobutadiene	ug/L	7.74	<14.0	<14.0	n/a	n/a	n/a	9.87	14.0	n/a	UT
S11V004715	O	67-72-1	Hexachloroethane	ug/L	4.78	<9.51	<9.51	n/a	n/a	n/a	5.30	9.51	n/a	UT
S11V004715	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/L	53.5	<14.9	<14.9	n/a	n/a	n/a	59.0	14.9	n/a	UT
S11V004715	O	91-20-3	Naphthalene	ug/L	34.5	<31.4	<31.4	n/a	n/a	n/a	32.7	31.4	n/a	UT
S11V004715	O	98-95-3	Nitrobenzene	ug/L	65.7	<23.5	<23.5	n/a	n/a	n/a	69.0	23.5	n/a	UT
S11V004715	O	87-86-5	Pentachlorophenol	ug/L	n/a	<8.17	<8.17	n/a	n/a	n/a	n/a	8.17	n/a	U
S11V004715	O	129-00-0	Pyrene	ug/L	59.1	<15.8	<15.8	n/a	n/a	n/a	65.6	15.8	n/a	U
S11V004715	O	110-86-1	Pyridine	ug/L	62.9	<31.2	<31.2	n/a	n/a	n/a	69.4	31.2	n/a	UT
S11V004715	O	126-73-8	Tributyl phosphate	ug/L	n/a	<6.37	<6.37	n/a	n/a	n/a	n/a	6.37	n/a	U
S11V004715	O	128-37-0	BHT	ug/L	36.9	<97.1	<97.1	n/a	n/a	n/a	42.7	97.1	n/a	UT
S11V004715	O	110-80-5	2-Ethoxyethanol	ug/L	73.5	<73.4	<73.4	n/a	n/a	n/a	67.2	73.4	n/a	UT
S11V004715	O	1319-77-3	Total Methylphenols	ug/L	n/a	<41.0	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S11V004715	O	108-94-1	Cyclohexanone	ug/L	58.2	<43.6	<43.6	n/a	n/a	n/a	63.8	43.6	n/a	UT
S11V004715	O	59-89-2	N-Nitrosomorpholine	ug/L	74.4	<144	<144	n/a	n/a	n/a	81.5	144	n/a	U
S11V004716		7439-97-6	Mercury	ug/mL	101	<1.00E-04	<2.00E-03	n/a	n/a	n/a	n/a	2.00E-03	n/a	U
S11V004716		7440-22-4	Silver	ug/mL	99.0	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	99.0	5.00E-03	n/a	U
S11V004716		7429-90-5	Aluminum	ug/mL	101	<0.0300	0.0694	0.0745	0.0720	7.02	104	0.0300	n/a	B
S11V004716		7440-38-2	Arsenic	ug/mL	98.8	<0.0500	<0.0500	<0.0500	n/a	n/a	102	0.0500	n/a	U
S11V004716		7440-39-3	Barium	ug/mL	100	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	102	3.00E-03	n/a	U
S11V004716		7440-41-7	Beryllium	ug/mL	98.7	<1.00E-03	<1.00E-03	<1.00E-03	n/a	n/a	98.8	1.00E-03	n/a	U
S11V004716		7440-70-2	Calcium	ug/mL	102	<0.0500	0.0662	0.0617	0.0640	7.00	101	0.0500	n/a	B
S11V004716		7440-43-9	Cadmium	ug/mL	102	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	101	5.00E-03	n/a	U
S11V004716		7440-48-4	Cobalt	ug/mL	102	<0.0100	<0.0100	<0.0100	n/a	n/a	102	0.0100	n/a	U
S11V004716		7440-47-3	Chromium	ug/mL	102	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	102	5.00E-03	n/a	U
S11V004716		7440-50-8	Copper	ug/mL	99.6	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	102	5.00E-03	n/a	U
S11V004716		7439-89-6	Iron	ug/mL	101	<5.00E-03	0.297	0.292	0.295	1.67	100	5.00E-03	n/a	

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110761
Core Number: C8102
Customer Sample ID: B2B1N7
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004716		7440-09-7	Potassium	ug/mL	97.0	<0.500	<0.500	<0.500	n/a	n/a	95.6	0.500	n/a	U
S11V004716		7439-93-2	Lithium	ug/mL	102	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	102	3.00E-03	n/a	U
S11V004716		7439-95-4	Magnesium	ug/mL	101	<0.0500	<0.0500	<0.0500	n/a	n/a	100	0.0500	n/a	U
S11V004716		7439-96-5	Manganese	ug/mL	101	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	102	3.00E-03	n/a	U
S11V004716		7439-98-7	Molybdenum	ug/mL	100	<0.0200	<0.0200	<0.0200	n/a	n/a	100	0.0200	n/a	U
S11V004716		7440-23-5	Sodium	ug/mL	102	<0.100	0.147	0.136	0.142	7.84	103	0.100	n/a	B
S11V004716		7440-02-0	Nickel	ug/mL	101	<0.0200	<0.0200	<0.0200	n/a	n/a	101	0.0200	n/a	U
S11V004716		7723-14-0	Phosphorus	ug/mL	102	<0.0500	<0.0500	<0.0500	n/a	n/a	97.4	0.0500	n/a	U
S11V004716		7439-92-1	Lead	ug/mL	104	<0.0500	<0.0500	<0.0500	n/a	n/a	103	0.0500	n/a	U
S11V004716		7440-36-0	Antimony	ug/mL	99.3	<0.0500	<0.0500	<0.0500	n/a	n/a	100	0.0500	n/a	U
S11V004716		7782-49-2	Selenium	ug/mL	103	<0.100	<0.100	<0.100	n/a	n/a	104	0.100	n/a	U
S11V004716		7440-21-3	Silicon	ug/mL	94.4	<0.0300	0.140	0.133	0.137	5.34	95.2	0.0300	n/a	B
S11V004716		7440-24-6	Strontium	ug/mL	100	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	100	3.00E-03	n/a	U
S11V004716		7440-28-0	Thallium	ug/mL	105	<0.100	<0.100	<0.100	n/a	n/a	105	0.100	n/a	U
S11V004716		7440-61-1	Uranium	ug/mL	102	<0.100	<0.100	<0.100	n/a	n/a	97.5	0.100	n/a	U
S11V004716		7440-62-2	Vanadium	ug/mL	102	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	102	5.00E-03	n/a	U
S11V004716		7440-65-5	Yttrium	ug/mL	99.0	<2.00E-03	<2.00E-03	<2.00E-03	n/a	n/a	100	2.00E-03	n/a	U
S11V004716		7440-66-6	Zinc	ug/mL	99.6	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	101	5.00E-03	n/a	U
S11V004716		7440-67-7	Zirconium	ug/mL	98.4	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	97.8	5.00E-03	n/a	U
S11V004716		14269-63-7	Thorium-230	ug/mL	n/a	<7.00E-09	<1.40E-08	<1.40E-08	n/a	n/a	n/a	1.40E-08	n/a	U
S11V004716		TH-232	Thorium-232	ug/mL	99.6	<5.00E-07	1.87E-05	1.89E-05	1.88E-05	0.851	97.7	1.00E-06	n/a	
S11V004716		13968-55-3	Uranium-233	ug/mL	96.5	<2.00E-07	<4.00E-07	<4.00E-07	n/a	n/a	94.3	4.00E-07	n/a	U
S11V004716		13966-29-5	Uranium-234	ug/mL	n/a	<5.00E-09	<1.00E-08	<1.00E-08	n/a	n/a	n/a	1.00E-08	n/a	U
S11V004716		15117-96-1	Uranium-235	ug/mL	98.8	<1.00E-08	<2.00E-08	3.10E-08	n/a	n/a	99.7	2.00E-08	n/a	U
S11V004716		13982-70-2	Uranium-236	ug/mL	n/a	<4.00E-09	9.00E-09	9.00E-09	9.00E-09	0.0	n/a	8.00E-09	n/a	
S11V004716		13994-20-2	Neptunium-237	ug/mL	103	<1.00E-07	<2.00E-07	<2.00E-07	n/a	n/a	96.0	2.00E-07	n/a	U
S11V004716		U-238	Uranium-238	ug/mL	100	<5.00E-07	2.80E-06	2.72E-06	2.76E-06	3.04	98.6	1.00E-06	n/a	
S11V004716		SN-117	Tin-117	ug/mL	106	<1.00E-05	<2.00E-05	n/a	n/a	n/a	n/a	2.00E-05	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110761
Core Number: C8102
Customer Sample ID: B2B1N7
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004716		15832-50-5	Tin-126	ug/mL	n/a	<2.00E-07	<4.00E-07	n/a	n/a	n/a	n/a	4.00E-07	n/a	U
S11V004716		14133-76-7	Technetium-99	ug/mL	98.1	<6.00E-07	<1.20E-06	<1.20E-06	n/a	n/a	98.0	1.20E-06	n/a	U
S11V004717		14762-75-5	Carbon-14	uCi/mL	91.5	<2.49E-07	<1.25E-07	1.45E-07	n/a	n/a	81.6	1.25E-07	n/a	U
S11V004717		15046-84-1	Iodine-129	uCi/mL	108	<1.05E-07	<1.17E-07	n/a	n/a	n/a	n/a	1.17E-07	n/a	U
S11V004717		10028-17-8	Tritium	uCi/mL	98.9	<2.76E-07	<2.76E-07	<2.76E-07	n/a	n/a	97.0	2.76E-07	n/a	U
S11V004718		CM-243/244	Curium-243/244	uCi/mL	n/a	3.31E-10	<3.08E-10	<2.08E-10	n/a	n/a	n/a	3.08E-10	n/a	U
S11V004718		14596-10-2	Americium-241	uCi/mL	94.9	<3.53E-10	<2.89E-10	3.41E-10	n/a	n/a	n/a	2.89E-10	n/a	U
S11V004718		15510-73-3	Curium-242	uCi/mL	n/a	<9.57E-11	<2.04E-10	<3.55E-10	n/a	n/a	n/a	2.04E-10	n/a	U
S11V004718		10198-40-0	Cobalt-60	uCi/mL	102	<1.07E-07	<9.12E-08	<1.07E-07	n/a	n/a	n/a	9.12E-08	n/a	U
S11V004718		14234-35-6	Antimony-125	uCi/mL	n/a	<2.24E-07	<2.48E-07	<2.56E-07	n/a	n/a	n/a	2.48E-07	n/a	U
S11V004718		10045-97-3	Cesium-137	uCi/mL	102	<1.02E-07	<1.00E-07	<1.11E-07	n/a	n/a	n/a	1.00E-07	n/a	U
S11V004718		14683-23-9	Europium-152	uCi/mL	n/a	<1.94E-07	<1.51E-07	<1.83E-07	n/a	n/a	n/a	1.51E-07	n/a	U
S11V004718		15585-10-1	Europium-154	uCi/mL	n/a	<1.22E-07	<1.31E-07	<1.12E-07	n/a	n/a	n/a	1.31E-07	n/a	U
S11V004718		14391-16-3	Europium-155	uCi/mL	n/a	<2.37E-07	<2.49E-07	<2.36E-07	n/a	n/a	n/a	2.49E-07	n/a	U
S11V004718		15067-28-4	Lead-214	uCi/mL	n/a	1.05E-06	9.51E-07	1.07E-06	1.01E-06	11.4	n/a	2.18E-07	7.35	B
S11V004718		13982-63-3	Radium-226	uCi/mL	n/a	<1.50E-06	3.83E-06	3.58E-06	3.71E-06	6.73	n/a	1.50E-06	13.93	
S11V004718		14274-82-9	Thorium-228	uCi/mL	n/a	<3.97E-05	<3.83E-05	<4.16E-05	n/a	n/a	n/a	3.83E-05	n/a	U
S11V004718		15065-10-8	Thorium-234	uCi/mL	n/a	<1.27E-06	<1.54E-06	<1.48E-06	n/a	n/a	n/a	1.54E-06	n/a	U
S11V004718		13981-37-8	Nickel-63	uCi/mL	95.9	<4.78E-08	<4.75E-08	<4.81E-08	n/a	n/a	n/a	4.75E-08	n/a	U
S11V004718		PU-239/240	Plutonium-239/240	uCi/mL	110	<1.56E-09	<5.17E-10	<6.87E-10	n/a	n/a	n/a	5.17E-10	n/a	U
S11V004718		13981-16-3	Plutonium-238	uCi/mL	n/a	<1.30E-09	<4.18E-10	<5.41E-10	n/a	n/a	n/a	4.18E-10	n/a	U
S11V004718		15758-45-9	Selenium-79	uCi/mL	n/a	9.34E-08	9.66E-08	1.01E-07	9.88E-08	4.45	n/a	1.57E-08	2020.058	BE
S11V004718		SR-89/90	Strontium-89/90	uCi/mL	99.3	<1.39E-08	<1.26E-08	<5.33E-08	n/a	n/a	n/a	1.26E-08	n/a	U
S11V004719		16984-48-8	Fluoride	ug/mL	98.7	<1.61E-03	0.0491	0.0479	0.0485	2.58	102	1.61E-03	n/a	
S11V004719		GLYCOLAT	Glycolate	ug/mL	97.2	<9.37E-03	<9.37E-03	<9.37E-03	n/a	n/a	98.8	9.37E-03	n/a	U
S11V004719		71-50-1	Acetate	ug/mL	99.8	<6.04E-03	<6.04E-03	<6.04E-03	n/a	n/a	102	6.04E-03	n/a	U
S11V004719		FORMATE	Formate	ug/mL	98.4	<4.67E-03	0.0465	0.0452	0.0458	2.66	101	4.67E-03	n/a	B
S11V004719		16887-00-6	Chloride	ug/mL	100	<9.98E-03	<9.98E-03	<9.98E-03	n/a	n/a	100	9.98E-03	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110761
Core Number: C8102
Customer Sample ID: B2B1N7
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004719		14797-65-0	Nitrite	ug/mL	98.9	<0.0192	<0.0192	<0.0192	n/a	n/a	101	0.0192	n/a	U
S11V004719		14808-79-8	Sulfate	ug/mL	99.0	<0.0187	<0.0187	<0.0187	n/a	n/a	101	0.0187	n/a	U
S11V004719		338-70-5	Oxalate	ug/mL	96.7	<0.0231	<0.0231	<0.0231	n/a	n/a	100	0.0231	n/a	U
S11V004719		24959-67-9	Bromide	ug/mL	101	<0.0580	<0.0580	<0.0580	n/a	n/a	101	0.0580	n/a	U
S11V004719		14797-55-8	Nitrate	ug/mL	97.2	<0.0208	0.194	0.192	0.193	1.15	98.7	0.0208	n/a	B
S11V004719		14265-44-2	Phosphate	ug/mL	97.7	<0.0167	<0.0167	<0.0167	n/a	n/a	98.4	0.0167	n/a	U
S11V004719		PH	pH	unitless	n/a	n/a	4.80	4.78	4.79	0.418	n/a	0.0100	n/a	
S11V004720		57-12-5	Cyanide	ug/mL	97.4	<4.00E-03	<0.0200	<0.0200	n/a	n/a	101	0.0200	n/a	U
S11V004721	S	14798-03-9	Ammonium	ug/mL	95.0	<0.0120	<0.120	0.212	n/a	n/a	93.3	0.120	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L8
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004723		%WATERA	%WATER-APD	%	n/a	n/a	4.770	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V004723		57-12-5	Cyanide	ug/g	94.5	<0.0370	<0.480	<0.479	n/a	n/a	97.7	0.480	n/a	U
S11V004723		WT%SOLID	Weight percent solids	%	n/a	n/a	95.2	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004723		7439-97-6	Mercury	ug/g	98.6	<1.00E-04	<9.49E-03	n/a	n/a	n/a	103	9.49E-03	n/a	U
S11V004723		PH	pH	unitless	n/a	n/a	8.08	8.19	8.14	1.35	n/a	0.0100	n/a	
S11V004724		13966-00-2	Potassium-40	uCi/g	n/a	<1.82E-06	6.63E-06	9.65E-06	8.14E-06	37.0	n/a	2.24E-06	8.05	
S11V004724		10198-40-0	Cobalt-60	uCi/g	99.7	<5.99E-08	<7.90E-08	<7.09E-08	n/a	n/a	n/a	7.90E-08	n/a	U
S11V004724		14234-35-6	Antimony-125	uCi/g	n/a	<1.49E-07	<2.26E-07	<1.48E-07	n/a	n/a	n/a	2.26E-07	n/a	U
S11V004724		10045-97-3	Cesium-137	uCi/g	100	<5.07E-08	4.37E-06	3.99E-06	4.18E-06	9.13	n/a	9.02E-08	1.28	
S11V004724		14683-23-9	Europium-152	uCi/g	n/a	<1.07E-07	<1.95E-07	<1.34E-07	n/a	n/a	n/a	1.95E-07	n/a	U
S11V004724		15585-10-1	Europium-154	uCi/g	n/a	<8.89E-08	<1.40E-07	<9.57E-08	n/a	n/a	n/a	1.40E-07	n/a	U
S11V004724		14391-16-3	Europium-155	uCi/g	n/a	<1.58E-07	<2.63E-07	<1.81E-07	n/a	n/a	n/a	2.63E-07	n/a	U
S11V004724		14913-50-9	Thallium-208	uCi/g	n/a	<6.23E-08	1.93E-07	2.38E-07	2.16E-07	20.7	n/a	9.96E-08	20.95	
S11V004724		14913-49-6	Bismuth-212	uCi/g	n/a	<6.48E-07	1.53E-06	<7.04E-07	n/a	n/a	n/a	9.40E-07	24.50	
S11V004724		15092-94-1	Lead-212	uCi/g	n/a	<9.43E-08	5.25E-07	5.42E-07	5.33E-07	3.15	n/a	1.27E-07	8.23	
S11V004724		14733-03-0	Bismuth-214	uCi/g	n/a	<1.33E-07	6.26E-07	4.43E-07	5.34E-07	34.2	n/a	1.95E-07	11.69	
S11V004724		15067-28-4	Lead-214	uCi/g	n/a	<1.48E-07	5.95E-07	6.50E-07	6.22E-07	8.83	n/a	1.92E-07	10.97	
S11V004724		14274-82-9	Thorium-228	uCi/g	n/a	<2.55E-05	<4.08E-05	<2.69E-05	n/a	n/a	n/a	4.08E-05	n/a	U
S11V004724		15065-10-8	Thorium-234	uCi/g	n/a	<8.84E-07	<2.72E-06	<1.90E-06	n/a	n/a	n/a	2.72E-06	n/a	U
S11V004724		15046-84-1	Iodine-129	uCi/g	103	<1.61E-06	<8.69E-07	<1.79E-06	n/a	n/a	n/a	8.69E-07	n/a	U
S11V004726	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<27.1	<26.6	n/a	n/a	n/a	n/a	26.6	n/a	U
S11V004726	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<4.48	<4.40	n/a	n/a	n/a	n/a	4.40	n/a	U
S11V004726	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<7.60	<7.47	n/a	n/a	n/a	n/a	7.47	n/a	U
S11V004726	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<18.1	<17.8	n/a	n/a	n/a	n/a	17.8	n/a	U
S11V004726	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<10.2	<10.1	n/a	n/a	n/a	n/a	10.1	n/a	U
S11V004726	O	11097-69-1	Aroclor 1254	ug/kg	88.4	<6.56	<6.45	n/a	n/a	n/a	92.6	6.45	n/a	U
S11V004726	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<10.6	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
S11V004727	A	7440-36-0	Antimony	ug/g	94.3	3.24E-04	0.211	0.230	0.220	8.76	90.5	6.72E-03	n/a	

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L8
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004727	A	SN-117	Tin-117	ug/g	105	<1.00E-03	<0.0336	<0.0341	n/a	n/a	105	0.0336	n/a	U
S11V004727	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.11E-03	1.72E-03	1.92E-03	20.3	n/a	6.72E-04	n/a	E
S11V004728	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.7	<77.4	<77.7	n/a	n/a	n/a	n/a	77.7	n/a	U
S11V004728	O	95-50-1	1,2-Dichlorobenzene	ug/kg	64.5	<101	<101	n/a	n/a	n/a	n/a	101	n/a	UT
S11V004728	O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.4	<38.1	<38.2	n/a	n/a	n/a	n/a	38.2	n/a	U
S11V004728	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	77.6	<44.0	<44.2	n/a	n/a	n/a	n/a	44.2	n/a	U
S11V004728	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	72.7	<49.5	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S11V004728	O	95-48-7	2-Methylphenol	ug/kg	64.0	<57.5	<57.7	n/a	n/a	n/a	n/a	57.7	n/a	UT
S11V004728	O	88-75-5	2-Nitrophenol	ug/kg	63.5	<53.7	<53.9	n/a	n/a	n/a	n/a	53.9	n/a	UT
S11V004728	O	65794-96-9	3 &4 Methylphenol	ug/kg	67.2	<51.4	<51.6	n/a	n/a	n/a	n/a	51.6	n/a	UT
S11V004728	O	83-32-9	Acenaphthene	ug/kg	75.8	<17.6	<17.7	n/a	n/a	n/a	n/a	17.7	n/a	U
S11V004728	O	56-55-3	Benzo(a)anthracene	ug/kg	90.2	<37.8	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S11V004728	O	205-99-2	Benzo(b)fluoranthene	ug/kg	93.7	<48.9	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S11V004728	O	50-32-8	Benzo(a)pyrene	ug/kg	91.1	<41.2	<41.4	n/a	n/a	n/a	n/a	41.4	n/a	U
S11V004728	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	93.9	<590	<592	n/a	n/a	n/a	n/a	592	n/a	U
S11V004728	O	207-08-9	Benzo(k)fluoranthene	ug/kg	98.0	<39.1	<39.2	n/a	n/a	n/a	n/a	39.2	n/a	U
S11V004728	O	85-68-7	Butylbenzylphthalate	ug/kg	97.2	<50.0	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S11V004728	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.7	<43.2	<43.4	n/a	n/a	n/a	n/a	43.4	n/a	U
S11V004728	O	95-57-8	2-Chlorophenol	ug/kg	66.4	<66.5	<66.8	n/a	n/a	n/a	n/a	66.8	n/a	U
S11V004728	O	218-01-9	Chrysene	ug/kg	91.3	<81.4	<81.7	n/a	n/a	n/a	n/a	81.7	n/a	U
S11V004728	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	98.8	<51.1	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S11V004728	O	84-74-2	Di-n-butylphthalate	ug/kg	96.0	<562	<564	n/a	n/a	n/a	n/a	564	n/a	U
S11V004728	O	117-84-0	Di-n-octylphthalate	ug/kg	86.0	<47.7	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S11V004728	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	65.2	<58.1	<58.3	n/a	n/a	n/a	n/a	58.3	n/a	U
S11V004728	O	206-44-0	Fluoranthene	ug/kg	89.5	<35.4	<35.5	n/a	n/a	n/a	n/a	35.5	n/a	U
S11V004728	O	87-68-3	Hexachlorobutadiene	ug/kg	67.0	<69.7	<70.0	n/a	n/a	n/a	n/a	70.0	n/a	UT
S11V004728	O	67-72-1	Hexachloroethane	ug/kg	50.4	<112	<112	n/a	n/a	n/a	n/a	112	n/a	UT
S11V004728	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	96.2	<51.0	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L8
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004728	O	91-20-3	Naphthalene	ug/kg	67.6	<62.6	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S11V004728	O	98-95-3	Nitrobenzene	ug/kg	68.4	<64.6	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	UT
S11V004728	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S11V004728	O	129-00-0	Pyrene	ug/kg	97.3	<62.9	<63.1	n/a	n/a	n/a	n/a	63.1	n/a	U
S11V004728	O	110-86-1	Pyridine	ug/kg	61.8	<65.0	<65.2	n/a	n/a	n/a	n/a	65.2	n/a	UT
S11V004728	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S11V004728	O	128-37-0	BHT	ug/kg	22.5	<236	<236	n/a	n/a	n/a	n/a	236	n/a	UT
S11V004728	O	110-80-5	2-Ethoxyethanol	ug/kg	64.9	<182	<183	n/a	n/a	n/a	n/a	183	n/a	UT
S11V004728	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S11V004728	O	108-94-1	Cyclohexanone	ug/kg	57.5	<559	<561	n/a	n/a	n/a	n/a	561	n/a	UT
S11V004728	O	59-89-2	N-Nitrosomorpholine	ug/kg	72.6	<191	<192	n/a	n/a	n/a	n/a	192	n/a	U
S11V004729	W	16984-48-8	Fluoride	ug/g	95.6	<1.61E-03	0.605	0.689	0.647	13.1	102	0.0160	n/a	
S11V004729	W	GLYCOLAT	Glycolate	ug/g	95.8	<9.37E-03	<0.0934	<0.0928	n/a	n/a	98.9	0.0934	n/a	U
S11V004729	W	71-50-1	Acetate	ug/g	103	<6.04E-03	<0.0588	<0.0592	n/a	n/a	104	0.0588	n/a	U
S11V004729	W	FORMATE	Formate	ug/g	87.4	<4.67E-03	0.112	<0.0458	n/a	n/a	88.5	0.0455	n/a	B
S11V004729	W	16887-00-6	Chloride	ug/g	97.0	<9.98E-03	1.10	1.20	1.15	8.31	103	0.0995	n/a	
S11V004729	W	14797-65-0	Nitrite	ug/g	96.8	0.0330	0.358	1.42	0.889	119	101	0.191	n/a	CB
S11V004729	W	14808-79-8	Sulfate	ug/g	98.2	<0.0187	3.16	3.56	3.36	12.0	103	0.186	n/a	
S11V004729	W	338-70-5	Oxalate	ug/g	95.4	<0.0231	<0.230	<0.229	n/a	n/a	101	0.230	n/a	U
S11V004729	W	24959-67-9	Bromide	ug/g	98.1	<0.0580	<0.578	<0.574	n/a	n/a	101	0.578	n/a	U
S11V004729	W	14797-55-8	Nitrate	ug/g	96.9	<0.0208	3.54	3.69	3.62	4.07	100	0.207	n/a	
S11V004729	W	14265-44-2	Phosphate	ug/g	96.6	<0.0167	2.41	2.59	2.50	7.28	102	0.166	n/a	
S11V004730	A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	6.17E+03	7.53E+03	6.85E+03	19.9	4.42E+03	7.04	n/a	
S11V004730	A	7440-39-3	Barium	ug/g	92.4	<3.00E-03	88.8	100	94.4	11.9	117	0.704	n/a	
S11V004730	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.235	<0.236	n/a	n/a	104	0.235	n/a	U
S11V004730	A	7440-70-2	Calcium	ug/g	82.4	<0.0500	8.09E+03	8.54E+03	8.31E+03	5.44	2.84E+03	11.7	n/a	
S11V004730	A	7440-45-1	Cerium	ug/g	96.2	<0.0300	23.6	29.9	26.8	23.5	117	7.04	n/a	B
S11V004730	A	7440-48-4	Cobalt	ug/g	87.5	<0.0100	7.70	7.53	7.61	2.13	104	2.35	n/a	B

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U - Less Than Detection Limit

C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L8
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004730	A	7440-47-3	Chromium	ug/g	88.2	<5.00E-03	6.82	9.17	8.00	29.4	112	1.17	n/a	B
S11V004730	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	11.5	11.1	11.3	3.56	105	1.17	n/a	B
S11V004730	A	7439-89-6	Iron	ug/g	88.2	<5.00E-03	1.93E+04	2.26E+04	2.09E+04	15.7	6.49E+03	1.17	n/a	
S11V004730	A	7440-09-7	Potassium	ug/g	77.3	<0.500	9.65E+02	1.08E+03	1.02E+03	11.7	150	117	n/a	B
S11V004730	A	7439-91-0	Lanthanum	ug/g	91.6	<3.00E-03	10.0	11.8	10.9	16.8	106	0.704	n/a	
S11V004730	A	7439-93-2	Lithium	ug/g	97.5	<3.00E-03	6.65	7.45	7.05	11.4	109	0.704	n/a	B
S11V004730	A	7439-95-4	Magnesium	ug/g	85.5	<0.0500	4.46E+03	5.04E+03	4.75E+03	12.0	862	11.7	n/a	
S11V004730	A	7439-96-5	Manganese	ug/g	87.2	<3.00E-03	281	328	304	15.5	162	0.704	n/a	
S11V004730	A	7439-98-7	Molybdenum	ug/g	88.8	<0.0200	<4.69	<4.72	n/a	n/a	102	4.69	n/a	U
S11V004730	A	7440-23-5	Sodium	ug/g	91.5	<0.100	389	353	371	9.60	302	18.1	n/a	
S11V004730	A	7440-02-0	Nickel	ug/g	86.7	<0.0200	10.3	8.68	9.51	17.5	104	4.69	n/a	B
S11V004730	A	7723-14-0	Phosphorus	ug/g	88.3	<0.0500	869	929	899	6.69	61.4	11.7	n/a	
S11V004730	A	7440-10-0	Praseodymium	ug/g	97.8	<0.0100	2.48	3.75	3.11	40.6	106	2.35	n/a	CB
S11V004730	A	7704-34-9	Sulfur	ug/g	88.2	<0.100	78.1	74.6	76.3	4.58	80.0	23.5	n/a	B
S11V004730	A	7440-21-3	Silicon	ug/g	74.1	<0.0300	82.1	90.8	86.4	10.1	11.9	7.04	n/a	N
S11V004730	A	7440-24-6	Strontium	ug/g	91.8	<3.00E-03	38.5	43.1	40.8	11.4	112	0.704	n/a	
S11V004730	A	7440-32-6	Titanium	ug/g	90.0	<5.00E-03	1.25E+03	1.56E+03	1.41E+03	22.2	958	1.17	n/a	
S11V004730	A	7440-62-2	Vanadium	ug/g	89.7	<5.00E-03	42.1	54.3	48.2	25.4	137	1.17	n/a	N
S11V004730	A	7440-65-5	Yttrium	ug/g	90.0	<2.00E-03	9.77	10.9	10.3	11.0	103	0.469	n/a	
S11V004730	A	7440-66-6	Zinc	ug/g	86.6	<5.00E-03	37.7	44.1	40.9	15.6	122	1.17	n/a	
S11V004730	A	7440-67-7	Zirconium	ug/g	88.6	<5.00E-03	15.5	12.2	13.8	23.4	2.53	1.17	n/a	N
S11V004730	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	5.69E-05	<3.30E-05	n/a	n/a	n/a	3.28E-05	n/a	
S11V004730	A	TH-232	Thorium-232	ug/g	99.2	<2.50E-04	2.21	2.74	2.48	21.4	112	2.35E-03	n/a	
S11V004730	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<9.38E-04	<9.43E-04	n/a	n/a	96.7	9.38E-04	n/a	U
S11V004730	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.35E-05	3.36E-05	n/a	n/a	n/a	2.35E-05	n/a	U
S11V004730	A	15117-96-1	Uranium-235	ug/g	92.4	<5.00E-06	2.83E-03	3.15E-03	2.99E-03	10.6	125	4.69E-05	n/a	
S11V004730	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.88E-05	<1.89E-05	n/a	n/a	n/a	1.88E-05	n/a	U
S11V004730	A	13994-20-2	Neptunium-237	ug/g	96.7	<5.00E-05	<4.69E-04	<4.72E-04	n/a	n/a	102	4.69E-04	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L8
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004730	A	U-238	Uranium-238	ug/g	98.0	<2.50E-04	0.397	0.468	0.432	16.3	127	2.35E-03	n/a	N
S11V004730	A	7440-22-4	Silver	ug/g	99.7	<4.00E-03	0.0385	0.0497	0.0441	25.4	94.4	0.0375	n/a	B
S11V004730	A	7440-38-2	Arsenic	ug/g	88.2	<0.0210	1.86	2.36	2.11	23.7	87.1	0.197	n/a	B
S11V004730	A	7440-43-9	Cadmium	ug/g	108	<1.50E-03	0.102	0.104	0.103	1.99	101	0.0141	n/a	B
S11V004730	A	7439-92-1	Lead	ug/g	118	<0.0155	5.99	7.58	6.78	23.4	116	0.145	n/a	
S11V004730	A	7782-49-2	Selenium	ug/g	115	0.0596	<0.286	<0.288	n/a	n/a	87.2	0.286	n/a	U
S11V004730	A	7440-28-0	Thallium	ug/g	118	9.49E-03	0.117	0.122	0.120	4.32	116	0.0188	n/a	CB
S11V004731	S	14798-03-9	Ammonium	ug/g	106	0.407	3.11	3.26	3.19	4.65	102	0.472	n/a	CB
S11V004732	A	14133-76-7	Technetium-99	ug/g	101	<6.00E-05	<5.61E-04	<5.64E-04	n/a	n/a	106	5.61E-04	n/a	U
S11V004733	W	14762-75-5	Carbon-14	uCi/g	96.2	<2.07E-06	<1.23E-06	<1.24E-06	n/a	n/a	95.1	1.23E-06	n/a	U
S11V004733	W	10028-17-8	Tritium	uCi/g	99.6	<1.55E-06	<1.41E-06	<1.40E-06	n/a	n/a	101	1.41E-06	n/a	U
S11V004734	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.06E-08	<2.03E-08	<3.51E-08	n/a	n/a	n/a	2.03E-08	n/a	U
S11V004734	E	14596-10-2	Americium-241	uCi/g	98.5	<2.72E-08	<2.86E-08	<2.64E-08	n/a	n/a	n/a	2.86E-08	n/a	U
S11V004734	E	15510-73-3	Curium-242	uCi/g	n/a	<8.73E-09	<2.14E-08	<2.25E-08	n/a	n/a	n/a	2.14E-08	n/a	U
S11V004734	E	PU-239/240	Plutonium-239/240	uCi/g	99.3	<4.38E-08	<2.79E-08	<2.18E-08	n/a	n/a	n/a	2.79E-08	n/a	U
S11V004734	E	13981-16-3	Plutonium-238	uCi/g	n/a	<4.38E-08	<2.61E-08	<2.58E-08	n/a	n/a	n/a	2.61E-08	n/a	U
S11V004735	E	SR-89/90	Strontium-89/90	uCi/g	94.4	<5.62E-07	1.74E-05	1.22E-05	1.48E-05	34.8	n/a	1.80E-07	5.527	
S11V004736	E	13981-37-8	Nickel-63	uCi/g	92.5	<3.31E-06	<3.29E-06	<3.31E-06	n/a	n/a	n/a	3.29E-06	n/a	U
S11V004737	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.22E-06	<1.23E-06	<1.17E-06	n/a	n/a	n/a	1.23E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L8 WE
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004725		CONDUCT	Conductivity	uMHO/cm	96.2	0.865	118	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004725	WV	14133-76-7	Technetium-99	ug/g	107	<6.00E-06	<5.86E-06	n/a	n/a	n/a	n/a	5.86E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L9
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004739		%WATERA	%WATER-APD	%	n/a	n/a	4.830	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V004739		57-12-5	Cyanide	ug/g	94.5	<0.0370	<0.479	n/a	n/a	n/a	n/a	0.479	n/a	U
S11V004739		WT%SOLID	Weight percent solids	%	n/a	n/a	95.2	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004739		7439-97-6	Mercury	ug/g	98.6	<1.00E-04	<9.31E-03	n/a	n/a	n/a	n/a	9.31E-03	n/a	U
S11V004739		PH	pH	unitless	n/a	n/a	7.99	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004740		13966-00-2	Potassium-40	uCi/g	n/a	<1.82E-06	1.16E-05	n/a	n/a	n/a	n/a	3.71E-06	8.64	
S11V004740		10198-40-0	Cobalt-60	uCi/g	99.7	<5.99E-08	<1.39E-07	n/a	n/a	n/a	n/a	1.39E-07	n/a	U
S11V004740		14234-35-6	Antimony-125	uCi/g	n/a	<1.49E-07	<3.57E-07	n/a	n/a	n/a	n/a	3.57E-07	n/a	U
S11V004740		10045-97-3	Cesium-137	uCi/g	100	<5.07E-08	4.17E-06	n/a	n/a	n/a	n/a	1.47E-07	2.02	
S11V004740		14683-23-9	Europium-152	uCi/g	n/a	<1.07E-07	<2.76E-07	n/a	n/a	n/a	n/a	2.76E-07	n/a	U
S11V004740		15585-10-1	Europium-154	uCi/g	n/a	<8.89E-08	<1.94E-07	n/a	n/a	n/a	n/a	1.94E-07	n/a	U
S11V004740		14391-16-3	Europium-155	uCi/g	n/a	<1.58E-07	<3.48E-07	n/a	n/a	n/a	n/a	3.48E-07	n/a	U
S11V004740		14913-50-9	Thallium-208	uCi/g	n/a	<6.23E-08	2.19E-07	n/a	n/a	n/a	n/a	1.42E-07	22.01	
S11V004740		15092-94-1	Lead-212	uCi/g	n/a	<9.43E-08	6.44E-07	n/a	n/a	n/a	n/a	2.05E-07	9.82	
S11V004740		14733-03-0	Bismuth-214	uCi/g	n/a	<1.33E-07	6.80E-07	n/a	n/a	n/a	n/a	3.13E-07	16.98	
S11V004740		15067-28-4	Lead-214	uCi/g	n/a	<1.48E-07	7.09E-07	n/a	n/a	n/a	n/a	3.03E-07	14.35	
S11V004740		13982-63-3	Radium-226	uCi/g	n/a	<9.66E-07	3.74E-06	n/a	n/a	n/a	n/a	2.09E-06	20.16	
S11V004740		14331-83-0	Actinium-228	uCi/g	n/a	<3.59E-07	8.41E-07	n/a	n/a	n/a	n/a	8.07E-07	19.96	
S11V004740		14274-82-9	Thorium-228	uCi/g	n/a	<2.55E-05	<5.34E-05	n/a	n/a	n/a	n/a	5.34E-05	n/a	U
S11V004740		15065-10-8	Thorium-234	uCi/g	n/a	<8.84E-07	<3.90E-06	n/a	n/a	n/a	n/a	3.90E-06	n/a	U
S11V004740		15046-84-1	Iodine-129	uCi/g	103	<1.61E-06	<1.16E-06	n/a	n/a	n/a	n/a	1.16E-06	n/a	U
S11V004743	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<27.1	<24.9	n/a	n/a	n/a	n/a	24.9	n/a	U
S11V004743	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<4.48	<4.11	n/a	n/a	n/a	n/a	4.11	n/a	U
S11V004743	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<7.60	<6.97	n/a	n/a	n/a	n/a	6.97	n/a	U
S11V004743	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<18.1	<16.6	n/a	n/a	n/a	n/a	16.6	n/a	U
S11V004743	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<10.2	<9.40	n/a	n/a	n/a	n/a	9.40	n/a	U
S11V004743	O	11097-69-1	Aroclor 1254	ug/kg	88.4	<6.56	6.46	n/a	n/a	n/a	n/a	6.02	n/a	J
S11V004743	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<10.6	<9.73	n/a	n/a	n/a	n/a	9.73	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L9
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004744	A	7440-36-0	Antimony	ug/g	94.3	3.24E-04	0.211	n/a	n/a	n/a	n/a	6.80E-03	n/a	
S11V004744	A	SN-117	Tin-117	ug/g	105	<1.00E-03	<0.0340	n/a	n/a	n/a	n/a	0.0340	n/a	U
S11V004744	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	<6.80E-04	n/a	n/a	n/a	n/a	6.80E-04	n/a	U
S11V004745	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.7	<77.4	<77.7	n/a	n/a	n/a	n/a	77.7	n/a	U
S11V004745	O	95-50-1	1,2-Dichlorobenzene	ug/kg	64.5	<101	<101	n/a	n/a	n/a	n/a	101	n/a	UT
S11V004745	O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.4	<38.1	<38.2	n/a	n/a	n/a	n/a	38.2	n/a	U
S11V004745	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	77.6	<44.0	<44.2	n/a	n/a	n/a	n/a	44.2	n/a	U
S11V004745	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	72.7	<49.5	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S11V004745	O	95-48-7	2-Methylphenol	ug/kg	64.0	<57.5	<57.7	n/a	n/a	n/a	n/a	57.7	n/a	UT
S11V004745	O	88-75-5	2-Nitrophenol	ug/kg	63.5	<53.7	<53.9	n/a	n/a	n/a	n/a	53.9	n/a	UT
S11V004745	O	65794-96-9	3 &4 Methylphenol	ug/kg	67.2	<51.4	<51.6	n/a	n/a	n/a	n/a	51.6	n/a	UT
S11V004745	O	83-32-9	Acenaphthene	ug/kg	75.8	<17.6	<17.7	n/a	n/a	n/a	n/a	17.7	n/a	U
S11V004745	O	56-55-3	Benzo(a)anthracene	ug/kg	90.2	<37.8	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S11V004745	O	205-99-2	Benzo(b)fluoranthene	ug/kg	93.7	<48.9	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S11V004745	O	50-32-8	Benzo(a)pyrene	ug/kg	91.1	<41.2	<41.3	n/a	n/a	n/a	n/a	41.3	n/a	U
S11V004745	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	93.9	<590	<592	n/a	n/a	n/a	n/a	592	n/a	U
S11V004745	O	207-08-9	Benzo(k)fluoranthene	ug/kg	98.0	<39.1	<39.2	n/a	n/a	n/a	n/a	39.2	n/a	U
S11V004745	O	85-68-7	Butylbenzylphthalate	ug/kg	97.2	<50.0	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S11V004745	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.7	<43.2	<43.3	n/a	n/a	n/a	n/a	43.3	n/a	U
S11V004745	O	95-57-8	2-Chlorophenol	ug/kg	66.4	<66.5	<66.7	n/a	n/a	n/a	n/a	66.7	n/a	U
S11V004745	O	218-01-9	Chrysene	ug/kg	91.3	<81.4	<81.7	n/a	n/a	n/a	n/a	81.7	n/a	U
S11V004745	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	98.8	<51.1	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S11V004745	O	84-74-2	Di-n-butylphthalate	ug/kg	96.0	<562	<564	n/a	n/a	n/a	n/a	564	n/a	U
S11V004745	O	117-84-0	Di-n-octylphthalate	ug/kg	86.0	<47.7	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S11V004745	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	65.2	<58.1	<58.3	n/a	n/a	n/a	n/a	58.3	n/a	U
S11V004745	O	206-44-0	Fluoranthene	ug/kg	89.5	<35.4	<35.5	n/a	n/a	n/a	n/a	35.5	n/a	U
S11V004745	O	87-68-3	Hexachlorobutadiene	ug/kg	67.0	<69.7	<69.9	n/a	n/a	n/a	n/a	69.9	n/a	UT
S11V004745	O	67-72-1	Hexachloroethane	ug/kg	50.4	<112	<112	n/a	n/a	n/a	n/a	112	n/a	UT

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B - Blank Contamination
U - Less Than Detection Limit

C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L9
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004745	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	96.2	<51.0	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S11V004745	O	91-20-3	Naphthalene	ug/kg	67.6	<62.6	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S11V004745	O	98-95-3	Nitrobenzene	ug/kg	68.4	<64.6	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	UT
S11V004745	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S11V004745	O	129-00-0	Pyrene	ug/kg	97.3	<62.9	<63.1	n/a	n/a	n/a	n/a	63.1	n/a	U
S11V004745	O	110-86-1	Pyridine	ug/kg	61.8	<65.0	<65.2	n/a	n/a	n/a	n/a	65.2	n/a	UT
S11V004745	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S11V004745	O	128-37-0	BHT	ug/kg	22.5	<236	<236	n/a	n/a	n/a	n/a	236	n/a	UT
S11V004745	O	110-80-5	2-Ethoxyethanol	ug/kg	64.9	<182	<183	n/a	n/a	n/a	n/a	183	n/a	UT
S11V004745	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S11V004745	O	108-94-1	Cyclohexanone	ug/kg	57.5	<559	<561	n/a	n/a	n/a	n/a	561	n/a	UT
S11V004745	O	59-89-2	N-Nitrosomorpholine	ug/kg	72.6	<191	<192	n/a	n/a	n/a	n/a	192	n/a	U
S11V004746	W	16984-48-8	Fluoride	ug/g	95.6	<1.61E-03	0.717	n/a	n/a	n/a	n/a	0.0159	n/a	
S11V004746	W	GLYCOLAT	Glycolate	ug/g	95.8	<9.37E-03	<0.0923	n/a	n/a	n/a	n/a	0.0923	n/a	U
S11V004746	W	71-50-1	Acetate	ug/g	103	<6.04E-03	<0.0601	n/a	n/a	n/a	n/a	0.0601	n/a	U
S11V004746	W	FORMATE	Formate	ug/g	87.4	<4.67E-03	0.188	n/a	n/a	n/a	n/a	0.0465	n/a	B
S11V004746	W	16887-00-6	Chloride	ug/g	97.0	<9.98E-03	1.05	n/a	n/a	n/a	n/a	0.0983	n/a	
S11V004746	W	14797-65-0	Nitrite	ug/g	96.8	0.0330	1.08	n/a	n/a	n/a	n/a	0.189	n/a	CB
S11V004746	W	14808-79-8	Sulfate	ug/g	98.2	<0.0187	3.89	n/a	n/a	n/a	n/a	0.184	n/a	
S11V004746	W	338-70-5	Oxalate	ug/g	95.4	<0.0231	0.237	n/a	n/a	n/a	n/a	0.227	n/a	B
S11V004746	W	24959-67-9	Bromide	ug/g	98.1	<0.0580	<0.571	n/a	n/a	n/a	n/a	0.571	n/a	U
S11V004746	W	14797-55-8	Nitrate	ug/g	96.9	<0.0208	3.90	n/a	n/a	n/a	n/a	0.205	n/a	
S11V004746	W	14265-44-2	Phosphate	ug/g	96.6	<0.0167	2.50	n/a	n/a	n/a	n/a	0.164	n/a	
S11V004747	A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	7.36E+03	n/a	n/a	n/a	n/a	6.84	n/a	
S11V004747	A	7440-39-3	Barium	ug/g	92.4	<3.00E-03	100	n/a	n/a	n/a	n/a	0.684	n/a	
S11V004747	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.228	n/a	n/a	n/a	n/a	0.228	n/a	U
S11V004747	A	7440-70-2	Calcium	ug/g	82.4	<0.0500	8.76E+03	n/a	n/a	n/a	n/a	11.4	n/a	
S11V004747	A	7440-45-1	Cerium	ug/g	96.2	<0.0300	25.7	n/a	n/a	n/a	n/a	6.84	n/a	B

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L9
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004747	A	7440-48-4	Cobalt	ug/g	87.5	<0.0100	8.38	n/a	n/a	n/a	n/a	2.28	n/a	B
S11V004747	A	7440-47-3	Chromium	ug/g	88.2	<5.00E-03	7.84	n/a	n/a	n/a	n/a	1.14	n/a	B
S11V004747	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	11.4	n/a	n/a	n/a	n/a	1.14	n/a	
S11V004747	A	7439-89-6	Iron	ug/g	88.2	<5.00E-03	2.30E+04	n/a	n/a	n/a	n/a	1.14	n/a	
S11V004747	A	7440-09-7	Potassium	ug/g	77.3	<0.500	1.10E+03	n/a	n/a	n/a	n/a	114	n/a	B
S11V004747	A	7439-91-0	Lanthanum	ug/g	91.6	<3.00E-03	11.3	n/a	n/a	n/a	n/a	0.684	n/a	
S11V004747	A	7439-93-2	Lithium	ug/g	97.5	<3.00E-03	7.82	n/a	n/a	n/a	n/a	0.684	n/a	
S11V004747	A	7439-95-4	Magnesium	ug/g	85.5	<0.0500	5.06E+03	n/a	n/a	n/a	n/a	11.4	n/a	
S11V004747	A	7439-96-5	Manganese	ug/g	87.2	<3.00E-03	324	n/a	n/a	n/a	n/a	0.684	n/a	
S11V004747	A	7439-98-7	Molybdenum	ug/g	88.8	<0.0200	<4.56	n/a	n/a	n/a	n/a	4.56	n/a	U
S11V004747	A	7440-23-5	Sodium	ug/g	91.5	<0.100	318	n/a	n/a	n/a	n/a	18.8	n/a	
S11V004747	A	7440-02-0	Nickel	ug/g	86.7	<0.0200	9.14	n/a	n/a	n/a	n/a	4.56	n/a	B
S11V004747	A	7723-14-0	Phosphorus	ug/g	88.3	<0.0500	907	n/a	n/a	n/a	n/a	11.4	n/a	
S11V004747	A	7440-10-0	Praseodymium	ug/g	97.8	<0.0100	3.19	n/a	n/a	n/a	n/a	2.28	n/a	CB
S11V004747	A	7704-34-9	Sulfur	ug/g	88.2	<0.100	76.6	n/a	n/a	n/a	n/a	22.8	n/a	B
S11V004747	A	7440-21-3	Silicon	ug/g	74.1	<0.0300	64.1	n/a	n/a	n/a	n/a	6.84	n/a	BN
S11V004747	A	7440-31-5	Tin	ug/g	84.1	<0.0300	6.90	n/a	n/a	n/a	n/a	6.84	n/a	B
S11V004747	A	7440-24-6	Strontium	ug/g	91.8	<3.00E-03	45.0	n/a	n/a	n/a	n/a	0.684	n/a	
S11V004747	A	7440-32-6	Titanium	ug/g	90.0	<5.00E-03	1.68E+03	n/a	n/a	n/a	n/a	1.14	n/a	
S11V004747	A	7440-62-2	Vanadium	ug/g	89.7	<5.00E-03	58.2	n/a	n/a	n/a	n/a	1.14	n/a	N
S11V004747	A	7440-65-5	Yttrium	ug/g	90.0	<2.00E-03	10.7	n/a	n/a	n/a	n/a	0.456	n/a	
S11V004747	A	7440-66-6	Zinc	ug/g	86.6	<5.00E-03	44.5	n/a	n/a	n/a	n/a	1.14	n/a	
S11V004747	A	7440-67-7	Zirconium	ug/g	88.6	<5.00E-03	7.31	n/a	n/a	n/a	n/a	1.14	n/a	BN
S11V004747	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.19E-05	n/a	n/a	n/a	n/a	3.19E-05	n/a	U
S11V004747	A	TH-232	Thorium-232	ug/g	99.2	<2.50E-04	2.71	n/a	n/a	n/a	n/a	2.28E-03	n/a	
S11V004747	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<9.12E-04	n/a	n/a	n/a	n/a	9.12E-04	n/a	U
S11V004747	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	2.85E-05	n/a	n/a	n/a	n/a	2.28E-05	n/a	
S11V004747	A	15117-96-1	Uranium-235	ug/g	92.4	<5.00E-06	3.15E-03	n/a	n/a	n/a	n/a	4.56E-05	n/a	

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L9
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004747	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.82E-05	n/a	n/a	n/a	n/a	1.82E-05	n/a	U
S11V004747	A	13994-20-2	Neptunium-237	ug/g	96.7	<5.00E-05	<4.56E-04	n/a	n/a	n/a	n/a	4.56E-04	n/a	U
S11V004747	A	U-238	Uranium-238	ug/g	98.0	<2.50E-04	0.441	n/a	n/a	n/a	n/a	2.28E-03	n/a	N
S11V004747	A	7440-22-4	Silver	ug/g	99.7	<4.00E-03	0.0525	n/a	n/a	n/a	n/a	0.0365	n/a	B
S11V004747	A	7440-38-2	Arsenic	ug/g	88.2	<0.0210	2.40	n/a	n/a	n/a	n/a	0.191	n/a	
S11V004747	A	7440-43-9	Cadmium	ug/g	108	<1.50E-03	0.117	n/a	n/a	n/a	n/a	0.0137	n/a	B
S11V004747	A	7439-92-1	Lead	ug/g	118	<0.0155	7.21	n/a	n/a	n/a	n/a	0.141	n/a	
S11V004747	A	7782-49-2	Selenium	ug/g	115	0.0596	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S11V004747	A	7440-28-0	Thallium	ug/g	118	9.49E-03	0.116	n/a	n/a	n/a	n/a	0.0182	n/a	CB
S11V004748	S	14798-03-9	Ammonium	ug/g	106	0.407	3.00	n/a	n/a	n/a	n/a	0.472	n/a	CB
S11V004749	A	14133-76-7	Technetium-99	ug/g	101	<6.00E-05	<5.60E-04	n/a	n/a	n/a	n/a	5.60E-04	n/a	U
S11V004750	W	14762-75-5	Carbon-14	uCi/g	96.2	<2.07E-06	2.23E-06	n/a	n/a	n/a	n/a	1.24E-06	76.694	
S11V004750	W	10028-17-8	Tritium	uCi/g	99.6	<1.55E-06	<1.76E-06	n/a	n/a	n/a	n/a	1.76E-06	n/a	U
S11V004751	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.58E-08	<1.92E-08	n/a	n/a	n/a	n/a	1.92E-08	n/a	U
S11V004751	E	14596-10-2	Americium-241	uCi/g	100	<2.51E-08	<1.64E-08	n/a	n/a	n/a	n/a	1.64E-08	n/a	U
S11V004751	E	15510-73-3	Curium-242	uCi/g	n/a	<1.85E-08	<3.48E-08	n/a	n/a	n/a	n/a	3.48E-08	n/a	U
S11V004751	E	PU-239/240	Plutonium-239/240	uCi/g	108	<4.22E-08	<3.57E-08	n/a	n/a	n/a	n/a	3.57E-08	n/a	U
S11V004751	E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.19E-08	<3.56E-08	n/a	n/a	n/a	n/a	3.56E-08	n/a	U
S11V004752	E	SR-89/90	Strontium-89/90	uCi/g	94.4	<5.62E-07	2.40E-05	n/a	n/a	n/a	n/a	2.76E-07	5.84	
S11V004753	E	13981-37-8	Nickel-63	uCi/g	92.5	<3.31E-06	<3.46E-06	n/a	n/a	n/a	n/a	3.46E-06	n/a	U
S11V004754	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.22E-06	<1.60E-06	n/a	n/a	n/a	n/a	1.60E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2B1L9 WE
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004742		CONDUCT	Conductivity	uMHO/cm	96.2	0.865	121	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004742	WV	14133-76-7	Technetium-99	ug/g	107	<6.00E-06	<5.95E-06	n/a	n/a	n/a	n/a	5.95E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X2
Sample Depth: 5.7'-9.7'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004779		%WATERA	%WATER-APD	%	n/a	n/a	7.690	7.770	7.730	1.035	n/a	0.01000	n/a	
S11V004779		57-12-5	Cyanide	ug/g	94.5	<0.0370	<0.479	n/a	n/a	n/a	n/a	0.479	n/a	U
S11V004779		WT%SOLID	Weight percent solids	%	n/a	n/a	92.3	92.2	92.3	0.0867	n/a	0.0100	n/a	
S11V004779		7439-97-6	Mercury	ug/g	98.6	<1.00E-04	<9.10E-03	n/a	n/a	n/a	n/a	9.10E-03	n/a	U
S11V004779		PH	pH	unitless	n/a	n/a	8.57	8.39	8.48	2.12	n/a	0.0100	n/a	
S11V004780		13966-00-2	Potassium-40	uCi/g	n/a	<1.82E-06	1.05E-05	n/a	n/a	n/a	n/a	3.38E-06	8.25	
S11V004780		10198-40-0	Cobalt-60	uCi/g	99.7	<5.99E-08	<1.29E-07	n/a	n/a	n/a	n/a	1.29E-07	n/a	U
S11V004780		14234-35-6	Antimony-125	uCi/g	n/a	<1.49E-07	<2.66E-07	n/a	n/a	n/a	n/a	2.66E-07	n/a	U
S11V004780		10045-97-3	Cesium-137	uCi/g	100	<5.07E-08	<1.26E-07	n/a	n/a	n/a	n/a	1.26E-07	n/a	U
S11V004780		14683-23-9	Europium-152	uCi/g	n/a	<1.07E-07	<1.84E-07	n/a	n/a	n/a	n/a	1.84E-07	n/a	U
S11V004780		15585-10-1	Europium-154	uCi/g	n/a	<8.89E-08	<1.56E-07	n/a	n/a	n/a	n/a	1.56E-07	n/a	U
S11V004780		14391-16-3	Europium-155	uCi/g	n/a	<1.58E-07	<3.05E-07	n/a	n/a	n/a	n/a	3.05E-07	n/a	U
S11V004780		14913-50-9	Thallium-208	uCi/g	n/a	<6.23E-08	2.59E-07	n/a	n/a	n/a	n/a	1.26E-07	16.58	
S11V004780		15092-94-1	Lead-212	uCi/g	n/a	<9.43E-08	5.94E-07	n/a	n/a	n/a	n/a	1.99E-07	11.74	
S11V004780		14733-03-0	Bismuth-214	uCi/g	n/a	<1.33E-07	6.70E-07	n/a	n/a	n/a	n/a	2.78E-07	14.60	
S11V004780		15067-28-4	Lead-214	uCi/g	n/a	<1.48E-07	7.30E-07	n/a	n/a	n/a	n/a	2.81E-07	12.89	
S11V004780		13982-63-3	Radium-226	uCi/g	n/a	<9.66E-07	4.92E-06	n/a	n/a	n/a	n/a	1.74E-06	12.88	
S11V004780		14331-83-0	Actinium-228	uCi/g	n/a	<3.59E-07	8.78E-07	n/a	n/a	n/a	n/a	6.49E-07	13.44	
S11V004780		14274-82-9	Thorium-228	uCi/g	n/a	<2.55E-05	<4.69E-05	n/a	n/a	n/a	n/a	4.69E-05	n/a	U
S11V004780		15065-10-8	Thorium-234	uCi/g	n/a	<8.84E-07	<2.62E-06	n/a	n/a	n/a	n/a	2.62E-06	n/a	U
S11V004780		15046-84-1	Iodine-129	uCi/g	103	<1.61E-06	<8.35E-07	n/a	n/a	n/a	n/a	8.35E-07	n/a	U
S11V004783	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<27.1	<22.2	n/a	n/a	n/a	n/a	22.2	n/a	U
S11V004783	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<4.48	<3.67	n/a	n/a	n/a	n/a	3.67	n/a	U
S11V004783	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<7.60	<6.22	n/a	n/a	n/a	n/a	6.22	n/a	U
S11V004783	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<18.1	<14.8	n/a	n/a	n/a	n/a	14.8	n/a	U
S11V004783	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<10.2	<8.39	n/a	n/a	n/a	n/a	8.39	n/a	U
S11V004783	O	11097-69-1	Aroclor 1254	ug/kg	88.4	<6.56	<5.38	n/a	n/a	n/a	n/a	5.38	n/a	U
S11V004783	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<10.6	<8.69	n/a	n/a	n/a	n/a	8.69	n/a	U

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B - Blank Contamination
U - Less Than Detection Limit

C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X2
Sample Depth: 5.7'-9.7'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004784	A	7440-36-0	Antimony	ug/g	94.3	3.24E-04	0.231	n/a	n/a	n/a	n/a	6.84E-03	n/a	
S11V004784	A	SN-117	Tin-117	ug/g	105	<1.00E-03	<0.0342	n/a	n/a	n/a	n/a	0.0342	n/a	U
S11V004784	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.91E-03	n/a	n/a	n/a	n/a	6.84E-04	n/a	E
S11V004785	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.7	<77.4	<77.7	n/a	n/a	n/a	70.0	77.7	n/a	U
S11V004785	O	95-50-1	1,2-Dichlorobenzene	ug/kg	64.5	<101	<101	n/a	n/a	n/a	64.1	101	n/a	UT
S11V004785	O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.4	<38.1	<38.2	n/a	n/a	n/a	88.5	38.2	n/a	U
S11V004785	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	77.6	<44.0	<44.2	n/a	n/a	n/a	85.9	44.2	n/a	U
S11V004785	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	72.7	<49.5	<49.7	n/a	n/a	n/a	81.5	49.7	n/a	U
S11V004785	O	95-48-7	2-Methylphenol	ug/kg	64.0	<57.5	<57.7	n/a	n/a	n/a	66.1	57.7	n/a	UT
S11V004785	O	88-75-5	2-Nitrophenol	ug/kg	63.5	<53.7	<53.9	n/a	n/a	n/a	67.5	53.9	n/a	UT
S11V004785	O	65794-96-9	3 &4 Methylphenol	ug/kg	67.2	<51.4	<51.6	n/a	n/a	n/a	69.8	51.6	n/a	UT
S11V004785	O	83-32-9	Acenaphthene	ug/kg	75.8	<17.6	<17.7	n/a	n/a	n/a	83.5	17.7	n/a	U
S11V004785	O	56-55-3	Benzo(a)anthracene	ug/kg	90.2	<37.8	<37.9	n/a	n/a	n/a	95.1	37.9	n/a	U
S11V004785	O	205-99-2	Benzo(b)fluoranthene	ug/kg	93.7	<48.9	<49.1	n/a	n/a	n/a	97.1	49.1	n/a	U
S11V004785	O	50-32-8	Benzo(a)pyrene	ug/kg	91.1	<41.2	<41.4	n/a	n/a	n/a	95.0	41.4	n/a	U
S11V004785	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	93.9	<590	<592	n/a	n/a	n/a	101	592	n/a	U
S11V004785	O	207-08-9	Benzo(k)fluoranthene	ug/kg	98.0	<39.1	<39.2	n/a	n/a	n/a	102	39.2	n/a	U
S11V004785	O	85-68-7	Butylbenzylphthalate	ug/kg	97.2	<50.0	<50.2	n/a	n/a	n/a	105	50.2	n/a	U
S11V004785	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.7	<43.2	<43.4	n/a	n/a	n/a	81.5	43.4	n/a	U
S11V004785	O	95-57-8	2-Chlorophenol	ug/kg	66.4	<66.5	<66.7	n/a	n/a	n/a	70.2	66.7	n/a	U
S11V004785	O	218-01-9	Chrysene	ug/kg	91.3	<81.4	<81.7	n/a	n/a	n/a	95.5	81.7	n/a	U
S11V004785	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	98.8	<51.1	<51.3	n/a	n/a	n/a	101	51.3	n/a	U
S11V004785	O	84-74-2	Di-n-butylphthalate	ug/kg	96.0	<562	<564	n/a	n/a	n/a	105	564	n/a	U
S11V004785	O	117-84-0	Di-n-octylphthalate	ug/kg	86.0	<47.7	<47.9	n/a	n/a	n/a	91.3	47.9	n/a	U
S11V004785	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	65.2	<58.1	<58.3	n/a	n/a	n/a	67.6	58.3	n/a	U
S11V004785	O	206-44-0	Fluoranthene	ug/kg	89.5	<35.4	<35.5	n/a	n/a	n/a	94.1	35.5	n/a	U
S11V004785	O	87-68-3	Hexachlorobutadiene	ug/kg	67.0	<69.7	<70.0	n/a	n/a	n/a	69.7	70.0	n/a	UT
S11V004785	O	67-72-1	Hexachloroethane	ug/kg	50.4	<112	<112	n/a	n/a	n/a	48.2	112	n/a	UT

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X2
Sample Depth: 5.7'-9.7'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004785	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	96.2	<51.0	<51.2	n/a	n/a	n/a	98.5	51.2	n/a	U
S11V004785	O	91-20-3	Naphthalene	ug/kg	67.6	<62.6	<62.8	n/a	n/a	n/a	71.4	62.8	n/a	U
S11V004785	O	98-95-3	Nitrobenzene	ug/kg	68.4	<64.6	<64.8	n/a	n/a	n/a	71.1	64.8	n/a	UT
S11V004785	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S11V004785	O	129-00-0	Pyrene	ug/kg	97.3	<62.9	<63.1	n/a	n/a	n/a	103	63.1	n/a	U
S11V004785	O	110-86-1	Pyridine	ug/kg	61.8	<65.0	<65.2	n/a	n/a	n/a	54.2	65.2	n/a	UT
S11V004785	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S11V004785	O	128-37-0	BHT	ug/kg	22.5	<236	<236	n/a	n/a	n/a	19.5	236	n/a	UT
S11V004785	O	110-80-5	2-Ethoxyethanol	ug/kg	64.9	<182	<183	n/a	n/a	n/a	67.1	183	n/a	UT
S11V004785	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S11V004785	O	108-94-1	Cyclohexanone	ug/kg	57.5	<559	<561	n/a	n/a	n/a	59.0	561	n/a	UT
S11V004785	O	59-89-2	N-Nitrosomorpholine	ug/kg	72.6	<191	<192	n/a	n/a	n/a	76.5	192	n/a	U
S11V004786	W	16984-48-8	Fluoride	ug/g	95.6	<1.61E-03	2.75	n/a	n/a	n/a	n/a	0.0156	n/a	
S11V004786	W	GLYCOLAT	Glycolate	ug/g	95.8	<9.37E-03	<0.0906	n/a	n/a	n/a	n/a	0.0906	n/a	U
S11V004786	W	71-50-1	Acetate	ug/g	103	<6.04E-03	<0.0603	n/a	n/a	n/a	n/a	0.0603	n/a	U
S11V004786	W	FORMATE	Formate	ug/g	87.4	<4.67E-03	0.266	n/a	n/a	n/a	n/a	0.0466	n/a	B
S11V004786	W	16887-00-6	Chloride	ug/g	97.0	<9.98E-03	4.88	n/a	n/a	n/a	n/a	0.0965	n/a	
S11V004786	W	14797-65-0	Nitrite	ug/g	96.8	0.0330	0.848	n/a	n/a	n/a	n/a	0.186	n/a	CB
S11V004786	W	14808-79-8	Sulfate	ug/g	98.2	<0.0187	11.9	n/a	n/a	n/a	n/a	0.181	n/a	
S11V004786	W	338-70-5	Oxalate	ug/g	95.4	<0.0231	0.381	n/a	n/a	n/a	n/a	0.223	n/a	B
S11V004786	W	24959-67-9	Bromide	ug/g	98.1	<0.0580	<0.561	n/a	n/a	n/a	n/a	0.561	n/a	U
S11V004786	W	14797-55-8	Nitrate	ug/g	96.9	<0.0208	16.1	n/a	n/a	n/a	n/a	0.201	n/a	
S11V004786	W	14265-44-2	Phosphate	ug/g	96.6	<0.0167	1.29	n/a	n/a	n/a	n/a	0.162	n/a	B
S11V004787	A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	7.48E+03	n/a	n/a	n/a	n/a	6.67	n/a	
S11V004787	A	7440-39-3	Barium	ug/g	92.4	<3.00E-03	78.8	n/a	n/a	n/a	n/a	0.667	n/a	
S11V004787	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S11V004787	A	7440-70-2	Calcium	ug/g	82.4	<0.0500	1.03E+04	n/a	n/a	n/a	n/a	11.1	n/a	
S11V004787	A	7440-45-1	Cerium	ug/g	96.2	<0.0300	24.2	n/a	n/a	n/a	n/a	6.67	n/a	B

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X2
Sample Depth: 5.7'-9.7'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004787	A	7440-48-4	Cobalt	ug/g	87.5	<0.0100	6.54	n/a	n/a	n/a	n/a	2.22	n/a	B
S11V004787	A	7440-47-3	Chromium	ug/g	88.2	<5.00E-03	7.44	n/a	n/a	n/a	n/a	1.11	n/a	B
S11V004787	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	11.1	n/a	n/a	n/a	n/a	1.11	n/a	B
S11V004787	A	7439-89-6	Iron	ug/g	88.2	<5.00E-03	2.12E+04	n/a	n/a	n/a	n/a	1.11	n/a	
S11V004787	A	7440-09-7	Potassium	ug/g	77.3	<0.500	1.10E+03	n/a	n/a	n/a	n/a	111	n/a	B
S11V004787	A	7439-91-0	Lanthanum	ug/g	91.6	<3.00E-03	10.8	n/a	n/a	n/a	n/a	0.667	n/a	
S11V004787	A	7439-93-2	Lithium	ug/g	97.5	<3.00E-03	8.54	n/a	n/a	n/a	n/a	0.667	n/a	
S11V004787	A	7439-95-4	Magnesium	ug/g	85.5	<0.0500	5.41E+03	n/a	n/a	n/a	n/a	11.1	n/a	
S11V004787	A	7439-96-5	Manganese	ug/g	87.2	<3.00E-03	331	n/a	n/a	n/a	n/a	0.667	n/a	
S11V004787	A	7439-98-7	Molybdenum	ug/g	88.8	<0.0200	<4.45	n/a	n/a	n/a	n/a	4.45	n/a	U
S11V004787	A	7440-23-5	Sodium	ug/g	91.5	<0.100	317	n/a	n/a	n/a	n/a	17.9	n/a	
S11V004787	A	7440-02-0	Nickel	ug/g	86.7	<0.0200	7.53	n/a	n/a	n/a	n/a	4.45	n/a	B
S11V004787	A	7723-14-0	Phosphorus	ug/g	88.3	<0.0500	834	n/a	n/a	n/a	n/a	11.1	n/a	
S11V004787	A	7440-10-0	Praseodymium	ug/g	97.8	<0.0100	2.98	n/a	n/a	n/a	n/a	2.22	n/a	CB
S11V004787	A	7704-34-9	Sulfur	ug/g	88.2	<0.100	66.9	n/a	n/a	n/a	n/a	22.2	n/a	B
S11V004787	A	7440-21-3	Silicon	ug/g	74.1	<0.0300	62.5	n/a	n/a	n/a	n/a	6.67	n/a	BN
S11V004787	A	7440-24-6	Strontium	ug/g	91.8	<3.00E-03	34.4	n/a	n/a	n/a	n/a	0.667	n/a	
S11V004787	A	7440-32-6	Titanium	ug/g	90.0	<5.00E-03	1.40E+03	n/a	n/a	n/a	n/a	1.11	n/a	
S11V004787	A	7440-62-2	Vanadium	ug/g	89.7	<5.00E-03	48.3	n/a	n/a	n/a	n/a	1.11	n/a	N
S11V004787	A	7440-65-5	Yttrium	ug/g	90.0	<2.00E-03	9.83	n/a	n/a	n/a	n/a	0.445	n/a	
S11V004787	A	7440-66-6	Zinc	ug/g	86.6	<5.00E-03	41.2	n/a	n/a	n/a	n/a	1.11	n/a	
S11V004787	A	7440-67-7	Zirconium	ug/g	88.6	<5.00E-03	12.5	n/a	n/a	n/a	n/a	1.11	n/a	N
S11V004787	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.11E-05	n/a	n/a	n/a	n/a	3.11E-05	n/a	U
S11V004787	A	TH-232	Thorium-232	ug/g	99.2	<2.50E-04	3.02	n/a	n/a	n/a	n/a	2.22E-03	n/a	
S11V004787	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<8.90E-04	n/a	n/a	n/a	n/a	8.90E-04	n/a	U
S11V004787	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	3.89E-05	n/a	n/a	n/a	n/a	2.22E-05	n/a	
S11V004787	A	15117-96-1	Uranium-235	ug/g	92.4	<5.00E-06	4.06E-03	n/a	n/a	n/a	n/a	4.45E-05	n/a	
S11V004787	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.78E-05	n/a	n/a	n/a	n/a	1.78E-05	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X2
Sample Depth: 5.7'-9.7'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004787	A	13994-20-2	Neptunium-237	ug/g	96.7	<5.00E-05	<4.45E-04	n/a	n/a	n/a	n/a	4.45E-04	n/a	U
S11V004787	A	U-238	Uranium-238	ug/g	98.0	<2.50E-04	0.566	n/a	n/a	n/a	n/a	2.22E-03	n/a	N
S11V004787	A	7440-22-4	Silver	ug/g	99.7	<4.00E-03	0.0451	n/a	n/a	n/a	n/a	0.0356	n/a	B
S11V004787	A	7440-38-2	Arsenic	ug/g	88.2	<0.0210	3.32	n/a	n/a	n/a	n/a	0.187	n/a	
S11V004787	A	7440-43-9	Cadmium	ug/g	108	<1.50E-03	0.105	n/a	n/a	n/a	n/a	0.0133	n/a	B
S11V004787	A	7439-92-1	Lead	ug/g	118	<0.0155	5.81	n/a	n/a	n/a	n/a	0.138	n/a	
S11V004787	A	7782-49-2	Selenium	ug/g	115	0.0596	<0.271	n/a	n/a	n/a	n/a	0.271	n/a	U
S11V004787	A	7440-28-0	Thallium	ug/g	118	9.49E-03	0.131	n/a	n/a	n/a	n/a	0.0178	n/a	CB
S11V004788	S	14798-03-9	Ammonium	ug/g	95.8	<0.120	3.81	3.47	3.64	9.43	98.1	0.479	n/a	B
S11V004789	A	14133-76-7	Technetium-99	ug/g	101	<6.00E-05	<5.35E-04	n/a	n/a	n/a	n/a	5.35E-04	n/a	U
S11V004790	W	14762-75-5	Carbon-14	uCi/g	96.2	<2.07E-06	<1.23E-06	n/a	n/a	n/a	n/a	1.23E-06	n/a	U
S11V004790	W	10028-17-8	Tritium	uCi/g	99.6	<1.55E-06	<1.48E-06	n/a	n/a	n/a	n/a	1.48E-06	n/a	U
S11V004791	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.58E-08	<2.17E-08	n/a	n/a	n/a	n/a	2.17E-08	n/a	U
S11V004791	E	14596-10-2	Americium-241	uCi/g	100	<2.51E-08	<3.07E-08	n/a	n/a	n/a	n/a	3.07E-08	n/a	U
S11V004791	E	15510-73-3	Curium-242	uCi/g	n/a	<1.85E-08	<1.93E-08	n/a	n/a	n/a	n/a	1.93E-08	n/a	U
S11V004791	E	PU-239/240	Plutonium-239/240	uCi/g	108	<4.22E-08	<5.38E-08	n/a	n/a	n/a	n/a	5.38E-08	n/a	U
S11V004791	E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.19E-08	<3.80E-08	n/a	n/a	n/a	n/a	3.80E-08	n/a	U
S11V004792	E	SR-89/90	Strontium-89/90	uCi/g	94.4	<5.62E-07	<6.48E-07	n/a	n/a	n/a	n/a	6.48E-07	n/a	U
S11V004793	E	13981-37-8	Nickel-63	uCi/g	92.5	<3.31E-06	<3.33E-06	n/a	n/a	n/a	n/a	3.33E-06	n/a	U
S11V004794	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.22E-06	<1.36E-06	n/a	n/a	n/a	n/a	1.36E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X2 WE
Sample Depth: 5.7'-9.7'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004782		CONDUCT	Conductivity	uMHO/cm	96.2	0.865	181	178	180	1.67	n/a	0.0100	n/a	
S11V004782	WV	14133-76-7	Technetium-99	ug/g	107	<6.00E-06	<5.98E-06	<5.89E-06	n/a	n/a	96.7	5.98E-06	n/a	U

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E - Estimated by Interference
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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X4
Sample Depth: 11.5'-15.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004803	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<27.1	<23.5	n/a	n/a	n/a	n/a	23.5	n/a	U
S11V004803	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<4.48	<3.89	n/a	n/a	n/a	n/a	3.89	n/a	U
S11V004803	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<7.60	<6.59	n/a	n/a	n/a	n/a	6.59	n/a	U
S11V004803	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<18.1	<15.7	n/a	n/a	n/a	n/a	15.7	n/a	U
S11V004803	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<10.2	<8.89	n/a	n/a	n/a	n/a	8.89	n/a	U
S11V004803	O	11097-69-1	Aroclor 1254	ug/kg	88.4	<6.56	<5.70	n/a	n/a	n/a	n/a	5.70	n/a	U
S11V004803	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<10.6	<9.21	n/a	n/a	n/a	n/a	9.21	n/a	U
S11V004819		%WATERA	%WATER-APD	%	n/a	n/a	5.410	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V004819		57-12-5	Cyanide	ug/g	94.5	<0.0370	<0.480	n/a	n/a	n/a	n/a	0.480	n/a	U
S11V004819		WT%SOLID	Weight percent solids	%	n/a	n/a	94.6	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004819		7439-97-6	Mercury	ug/g	98.6	<1.00E-04	<9.09E-03	n/a	n/a	n/a	n/a	9.09E-03	n/a	U
S11V004819		PH	pH	unitless	n/a	n/a	8.55	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004820		13966-00-2	Potassium-40	uCi/g	n/a	<1.82E-06	9.69E-06	n/a	n/a	n/a	n/a	3.29E-06	8.56	
S11V004820		10198-40-0	Cobalt-60	uCi/g	99.7	<5.99E-08	<1.02E-07	n/a	n/a	n/a	n/a	1.02E-07	n/a	U
S11V004820		14234-35-6	Antimony-125	uCi/g	n/a	<1.49E-07	<2.32E-07	n/a	n/a	n/a	n/a	2.32E-07	n/a	U
S11V004820		10045-97-3	Cesium-137	uCi/g	100	<5.07E-08	<1.23E-07	n/a	n/a	n/a	n/a	1.23E-07	n/a	U
S11V004820		14683-23-9	Europium-152	uCi/g	n/a	<1.07E-07	<2.15E-07	n/a	n/a	n/a	n/a	2.15E-07	n/a	U
S11V004820		15585-10-1	Europium-154	uCi/g	n/a	<8.89E-08	<1.55E-07	n/a	n/a	n/a	n/a	1.55E-07	n/a	U
S11V004820		14391-16-3	Europium-155	uCi/g	n/a	<1.58E-07	<2.87E-07	n/a	n/a	n/a	n/a	2.87E-07	n/a	U
S11V004820		14913-50-9	Thallium-208	uCi/g	n/a	<6.23E-08	2.80E-07	n/a	n/a	n/a	n/a	1.36E-07	19.10	
S11V004820		15092-94-1	Lead-212	uCi/g	n/a	<9.43E-08	6.78E-07	n/a	n/a	n/a	n/a	1.85E-07	9.50	
S11V004820		14733-03-0	Bismuth-214	uCi/g	n/a	<1.33E-07	4.39E-07	n/a	n/a	n/a	n/a	2.64E-07	19.87	
S11V004820		15067-28-4	Lead-214	uCi/g	n/a	<1.48E-07	6.32E-07	n/a	n/a	n/a	n/a	2.58E-07	14.40	
S11V004820		13982-63-3	Radium-226	uCi/g	n/a	<9.66E-07	4.91E-06	n/a	n/a	n/a	n/a	1.79E-06	13.71	
S11V004820		14331-83-0	Actinium-228	uCi/g	n/a	<3.59E-07	7.62E-07	n/a	n/a	n/a	n/a	6.92E-07	16.17	
S11V004820		14274-82-9	Thorium-228	uCi/g	n/a	<2.55E-05	<4.61E-05	n/a	n/a	n/a	n/a	4.61E-05	n/a	U
S11V004820		15065-10-8	Thorium-234	uCi/g	n/a	<8.84E-07	<1.79E-06	n/a	n/a	n/a	n/a	1.79E-06	n/a	U
S11V004820		15046-84-1	Iodine-129	uCi/g	103	<1.61E-06	<1.03E-06	n/a	n/a	n/a	n/a	1.03E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X4
Sample Depth: 11.5'-15.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004822	A	7440-36-0	Antimony	ug/g	94.3	3.24E-04	0.252	n/a	n/a	n/a	n/a	6.54E-03	n/a	
S11V004822	A	SN-117	Tin-117	ug/g	105	<1.00E-03	0.0574	n/a	n/a	n/a	n/a	0.0327	n/a	
S11V004822	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.49E-03	n/a	n/a	n/a	n/a	6.54E-04	n/a	E
S11V004823	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	66.7	<77.4	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
S11V004823	O	95-50-1	1,2-Dichlorobenzene	ug/kg	64.5	<101	<97.6	n/a	n/a	n/a	n/a	97.6	n/a	UT
S11V004823	O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.4	<38.1	<36.9	n/a	n/a	n/a	n/a	36.9	n/a	U
S11V004823	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	77.6	<44.0	<42.7	n/a	n/a	n/a	n/a	42.7	n/a	U
S11V004823	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	72.7	<49.5	<48.0	n/a	n/a	n/a	n/a	48.0	n/a	U
S11V004823	O	95-48-7	2-Methylphenol	ug/kg	64.0	<57.5	<55.7	n/a	n/a	n/a	n/a	55.7	n/a	UT
S11V004823	O	88-75-5	2-Nitrophenol	ug/kg	63.5	<53.7	<52.1	n/a	n/a	n/a	n/a	52.1	n/a	UT
S11V004823	O	65794-96-9	3 &4 Methylphenol	ug/kg	67.2	<51.4	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	UT
S11V004823	O	83-32-9	Acenaphthene	ug/kg	75.8	<17.6	<17.1	n/a	n/a	n/a	n/a	17.1	n/a	U
S11V004823	O	56-55-3	Benzo(a)anthracene	ug/kg	90.2	<37.8	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S11V004823	O	205-99-2	Benzo(b)fluoranthene	ug/kg	93.7	<48.9	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U
S11V004823	O	50-32-8	Benzo(a)pyrene	ug/kg	91.1	<41.2	<39.9	n/a	n/a	n/a	n/a	39.9	n/a	U
S11V004823	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	93.9	<590	<572	n/a	n/a	n/a	n/a	572	n/a	U
S11V004823	O	207-08-9	Benzo(k)fluoranthene	ug/kg	98.0	<39.1	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S11V004823	O	85-68-7	Butylbenzylphthalate	ug/kg	97.2	<50.0	<48.5	n/a	n/a	n/a	n/a	48.5	n/a	U
S11V004823	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.7	<43.2	<41.9	n/a	n/a	n/a	n/a	41.9	n/a	U
S11V004823	O	95-57-8	2-Chlorophenol	ug/kg	66.4	<66.5	<64.5	n/a	n/a	n/a	n/a	64.5	n/a	U
S11V004823	O	218-01-9	Chrysene	ug/kg	91.3	<81.4	<78.9	n/a	n/a	n/a	n/a	78.9	n/a	U
S11V004823	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	98.8	<51.1	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S11V004823	O	84-74-2	Di-n-butylphthalate	ug/kg	96.0	<562	<545	n/a	n/a	n/a	n/a	545	n/a	U
S11V004823	O	117-84-0	Di-n-octylphthalate	ug/kg	86.0	<47.7	109	n/a	n/a	n/a	n/a	46.2	n/a	J
S11V004823	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	65.2	<58.1	<56.3	n/a	n/a	n/a	n/a	56.3	n/a	U
S11V004823	O	206-44-0	Fluoranthene	ug/kg	89.5	<35.4	<34.3	n/a	n/a	n/a	n/a	34.3	n/a	U
S11V004823	O	87-68-3	Hexachlorobutadiene	ug/kg	67.0	<69.7	<67.6	n/a	n/a	n/a	n/a	67.6	n/a	UT
S11V004823	O	67-72-1	Hexachloroethane	ug/kg	50.4	<112	<108	n/a	n/a	n/a	n/a	108	n/a	UT

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X4
Sample Depth: 11.5'-15.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004823	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	96.2	<51.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S11V004823	O	91-20-3	Naphthalene	ug/kg	67.6	<62.6	<60.7	n/a	n/a	n/a	n/a	60.7	n/a	U
S11V004823	O	98-95-3	Nitrobenzene	ug/kg	68.4	<64.6	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	UT
S11V004823	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<36.4	n/a	n/a	n/a	n/a	36.4	n/a	U
S11V004823	O	129-00-0	Pyrene	ug/kg	97.3	<62.9	<61.0	n/a	n/a	n/a	n/a	61.0	n/a	U
S11V004823	O	110-86-1	Pyridine	ug/kg	61.8	<65.0	<63.0	n/a	n/a	n/a	n/a	63.0	n/a	UT
S11V004823	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S11V004823	O	128-37-0	BHT	ug/kg	22.5	<236	<228	n/a	n/a	n/a	n/a	228	n/a	UT
S11V004823	O	110-80-5	2-Ethoxyethanol	ug/kg	64.9	<182	<177	n/a	n/a	n/a	n/a	177	n/a	UT
S11V004823	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U
S11V004823	O	108-94-1	Cyclohexanone	ug/kg	57.5	<559	<542	n/a	n/a	n/a	n/a	542	n/a	UT
S11V004823	O	59-89-2	N-Nitrosomorpholine	ug/kg	72.6	<191	<185	n/a	n/a	n/a	n/a	185	n/a	U
S11V004824	W	16984-48-8	Fluoride	ug/g	95.6	<1.61E-03	0.943	n/a	n/a	n/a	n/a	0.0158	n/a	
S11V004824	W	GLYCOLAT	Glycolate	ug/g	95.8	<9.37E-03	<0.0922	n/a	n/a	n/a	n/a	0.0922	n/a	U
S11V004824	W	71-50-1	Acetate	ug/g	103	<6.04E-03	0.322	n/a	n/a	n/a	n/a	0.0604	n/a	B
S11V004824	W	FORMATE	Formate	ug/g	87.4	<4.67E-03	0.320	n/a	n/a	n/a	n/a	0.0467	n/a	B
S11V004824	W	16887-00-6	Chloride	ug/g	97.0	<9.98E-03	1.17	n/a	n/a	n/a	n/a	0.0982	n/a	
S11V004824	W	14797-65-0	Nitrite	ug/g	96.8	0.0330	0.342	n/a	n/a	n/a	n/a	0.189	n/a	CB
S11V004824	W	14808-79-8	Sulfate	ug/g	98.2	<0.0187	4.21	n/a	n/a	n/a	n/a	0.184	n/a	
S11V004824	W	338-70-5	Oxalate	ug/g	95.4	<0.0231	8.20	n/a	n/a	n/a	n/a	0.227	n/a	
S11V004824	W	24959-67-9	Bromide	ug/g	98.1	<0.0580	0.972	n/a	n/a	n/a	n/a	0.571	n/a	B
S11V004824	W	14797-55-8	Nitrate	ug/g	96.9	<0.0208	4.64	n/a	n/a	n/a	n/a	0.205	n/a	
S11V004824	W	14265-44-2	Phosphate	ug/g	96.6	<0.0167	5.96	n/a	n/a	n/a	n/a	0.164	n/a	
S11V004825	A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	6.71E+03	n/a	n/a	n/a	n/a	7.00	n/a	
S11V004825	A	7440-39-3	Barium	ug/g	92.4	<3.00E-03	66.1	n/a	n/a	n/a	n/a	0.700	n/a	
S11V004825	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U
S11V004825	A	7440-70-2	Calcium	ug/g	82.4	<0.0500	8.16E+03	n/a	n/a	n/a	n/a	11.7	n/a	
S11V004825	A	7440-45-1	Cerium	ug/g	96.2	<0.0300	23.5	n/a	n/a	n/a	n/a	7.00	n/a	B

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X4
Sample Depth: 11.5'-15.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004825	A	7440-48-4	Cobalt	ug/g	87.5	<0.0100	6.47	n/a	n/a	n/a	n/a	2.33	n/a	B
S11V004825	A	7440-47-3	Chromium	ug/g	88.2	<5.00E-03	8.44	n/a	n/a	n/a	n/a	1.17	n/a	B
S11V004825	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	10.8	n/a	n/a	n/a	n/a	1.17	n/a	B
S11V004825	A	7439-89-6	Iron	ug/g	88.2	<5.00E-03	2.25E+04	n/a	n/a	n/a	n/a	1.17	n/a	
S11V004825	A	7440-09-7	Potassium	ug/g	77.3	<0.500	916	n/a	n/a	n/a	n/a	117	n/a	B
S11V004825	A	7439-91-0	Lanthanum	ug/g	91.6	<3.00E-03	10.8	n/a	n/a	n/a	n/a	0.700	n/a	
S11V004825	A	7439-93-2	Lithium	ug/g	97.5	<3.00E-03	7.64	n/a	n/a	n/a	n/a	0.700	n/a	
S11V004825	A	7439-95-4	Magnesium	ug/g	85.5	<0.0500	4.95E+03	n/a	n/a	n/a	n/a	11.7	n/a	
S11V004825	A	7439-96-5	Manganese	ug/g	87.2	<3.00E-03	319	n/a	n/a	n/a	n/a	0.700	n/a	
S11V004825	A	7439-98-7	Molybdenum	ug/g	88.8	<0.0200	<4.67	n/a	n/a	n/a	n/a	4.67	n/a	U
S11V004825	A	7440-23-5	Sodium	ug/g	91.5	<0.100	430	n/a	n/a	n/a	n/a	17.9	n/a	
S11V004825	A	7440-02-0	Nickel	ug/g	86.7	<0.0200	12.2	n/a	n/a	n/a	n/a	4.67	n/a	B
S11V004825	A	7723-14-0	Phosphorus	ug/g	88.3	<0.0500	834	n/a	n/a	n/a	n/a	11.7	n/a	
S11V004825	A	7704-34-9	Sulfur	ug/g	88.2	<0.100	65.7	n/a	n/a	n/a	n/a	23.3	n/a	B
S11V004825	A	7440-21-3	Silicon	ug/g	74.1	<0.0300	67.1	n/a	n/a	n/a	n/a	7.00	n/a	BN
S11V004825	A	7440-31-5	Tin	ug/g	84.1	<0.0300	11.6	n/a	n/a	n/a	n/a	7.00	n/a	B
S11V004825	A	7440-24-6	Strontium	ug/g	91.8	<3.00E-03	31.4	n/a	n/a	n/a	n/a	0.700	n/a	
S11V004825	A	7440-32-6	Titanium	ug/g	90.0	<5.00E-03	1.60E+03	n/a	n/a	n/a	n/a	1.17	n/a	
S11V004825	A	7440-62-2	Vanadium	ug/g	89.7	<5.00E-03	55.7	n/a	n/a	n/a	n/a	1.17	n/a	N
S11V004825	A	7440-65-5	Yttrium	ug/g	90.0	<2.00E-03	10.1	n/a	n/a	n/a	n/a	0.467	n/a	
S11V004825	A	7440-66-6	Zinc	ug/g	86.6	<5.00E-03	41.4	n/a	n/a	n/a	n/a	1.17	n/a	
S11V004825	A	7440-67-7	Zirconium	ug/g	88.6	<5.00E-03	6.77	n/a	n/a	n/a	n/a	1.17	n/a	BN
S11V004825	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.27E-05	n/a	n/a	n/a	n/a	3.27E-05	n/a	U
S11V004825	A	TH-232	Thorium-232	ug/g	99.2	<2.50E-04	2.60	n/a	n/a	n/a	n/a	2.33E-03	n/a	
S11V004825	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<9.33E-04	n/a	n/a	n/a	n/a	9.33E-04	n/a	U
S11V004825	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	4.04E-05	n/a	n/a	n/a	n/a	2.33E-05	n/a	
S11V004825	A	15117-96-1	Uranium-235	ug/g	92.4	<5.00E-06	3.24E-03	n/a	n/a	n/a	n/a	4.67E-05	n/a	
S11V004825	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.87E-05	n/a	n/a	n/a	n/a	1.87E-05	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X4
Sample Depth: 11.5'-15.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004825	A	13994-20-2	Neptunium-237	ug/g	96.7	<5.00E-05	<4.67E-04	n/a	n/a	n/a	n/a	4.67E-04	n/a	U
S11V004825	A	U-238	Uranium-238	ug/g	98.0	<2.50E-04	0.444	n/a	n/a	n/a	n/a	2.33E-03	n/a	N
S11V004825	A	7440-22-4	Silver	ug/g	99.7	<4.00E-03	0.0464	n/a	n/a	n/a	n/a	0.0373	n/a	B
S11V004825	A	7440-38-2	Arsenic	ug/g	88.2	<0.0210	2.88	n/a	n/a	n/a	n/a	0.196	n/a	
S11V004825	A	7440-43-9	Cadmium	ug/g	108	<1.50E-03	0.0824	n/a	n/a	n/a	n/a	0.0140	n/a	B
S11V004825	A	7439-92-1	Lead	ug/g	118	<0.0155	4.65	n/a	n/a	n/a	n/a	0.145	n/a	
S11V004825	A	7782-49-2	Selenium	ug/g	115	0.0596	<0.285	n/a	n/a	n/a	n/a	0.285	n/a	U
S11V004825	A	7440-28-0	Thallium	ug/g	118	9.49E-03	0.121	n/a	n/a	n/a	n/a	0.0187	n/a	CB
S11V004826	S	14798-03-9	Ammonium	ug/g	95.8	<0.120	1.06	n/a	n/a	n/a	n/a	0.477	n/a	B
S11V004827	A	14133-76-7	Technetium-99	ug/g	101	<6.00E-05	<5.34E-04	n/a	n/a	n/a	n/a	5.34E-04	n/a	U
S11V004828	W	14762-75-5	Carbon-14	uCi/g	96.2	<2.07E-06	3.39E-06	n/a	n/a	n/a	n/a	1.24E-06	48.556	
S11V004828	W	10028-17-8	Tritium	uCi/g	99.6	<1.55E-06	<2.57E-06	n/a	n/a	n/a	n/a	2.57E-06	n/a	U
S11V004829	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.58E-08	<2.78E-08	n/a	n/a	n/a	n/a	2.78E-08	n/a	U
S11V004829	E	14596-10-2	Americium-241	uCi/g	100	<2.51E-08	6.10E-08	n/a	n/a	n/a	n/a	3.79E-08	31.33	
S11V004829	E	15510-73-3	Curium-242	uCi/g	n/a	<1.85E-08	<4.91E-08	n/a	n/a	n/a	n/a	4.91E-08	n/a	U
S11V004829	E	PU-239/240	Plutonium-239/240	uCi/g	108	<4.22E-08	<4.92E-08	n/a	n/a	n/a	n/a	4.92E-08	n/a	U
S11V004829	E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.19E-08	<2.92E-08	n/a	n/a	n/a	n/a	2.92E-08	n/a	U
S11V004830	E	SR-89/90	Strontium-89/90	uCi/g	94.4	<5.62E-07	<1.79E-07	n/a	n/a	n/a	n/a	1.79E-07	n/a	U
S11V004831	E	13981-37-8	Nickel-63	uCi/g	92.5	<3.31E-06	<3.36E-06	n/a	n/a	n/a	n/a	3.36E-06	n/a	U
S11V004832	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.22E-06	<1.15E-06	n/a	n/a	n/a	n/a	1.15E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X4 WE
Sample Depth: 11.5'-15.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004821		CONDUCT	Conductivity	uMHO/cm	96.2	0.865	141	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004821	WV	14133-76-7	Technetium-99	ug/g	107	<6.00E-06	<5.85E-06	n/a	n/a	n/a	n/a	5.85E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X5
Sample Depth: 16.1'-18.1'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004837		%WATERA	%WATER-APD	%	n/a	n/a	6.670	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V004837		57-12-5	Cyanide	ug/g	97.1	<0.0370	<0.479	n/a	n/a	n/a	n/a	0.479	n/a	U
S11V004837		WT%SOLID	Weight percent solids	%	n/a	n/a	93.3	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004837		7439-97-6	Mercury	ug/g	98.6	<1.00E-04	<9.09E-03	n/a	n/a	n/a	n/a	9.09E-03	n/a	U
S11V004837		PH	pH	unitless	n/a	n/a	8.46	8.36	8.41	1.19	n/a	0.0100	n/a	
S11V004838		13966-00-2	Potassium-40	uCi/g	n/a	<1.82E-06	7.34E-06	n/a	n/a	n/a	n/a	4.96E-06	16.65	
S11V004838		10198-40-0	Cobalt-60	uCi/g	99.7	<5.99E-08	<1.50E-07	n/a	n/a	n/a	n/a	1.50E-07	n/a	U
S11V004838		14234-35-6	Antimony-125	uCi/g	n/a	<1.49E-07	<4.11E-07	n/a	n/a	n/a	n/a	4.11E-07	n/a	U
S11V004838		10045-97-3	Cesium-137	uCi/g	100	<5.07E-08	<1.85E-07	n/a	n/a	n/a	n/a	1.85E-07	n/a	U
S11V004838		14683-23-9	Europium-152	uCi/g	n/a	<1.07E-07	<2.81E-07	n/a	n/a	n/a	n/a	2.81E-07	n/a	U
S11V004838		15585-10-1	Europium-154	uCi/g	n/a	<8.89E-08	<2.15E-07	n/a	n/a	n/a	n/a	2.15E-07	n/a	U
S11V004838		14391-16-3	Europium-155	uCi/g	n/a	<1.58E-07	<3.78E-07	n/a	n/a	n/a	n/a	3.78E-07	n/a	U
S11V004838		14913-49-6	Bismuth-212	uCi/g	n/a	<6.48E-07	2.08E-06	n/a	n/a	n/a	n/a	1.89E-06	34.16	
S11V004838		15092-94-1	Lead-212	uCi/g	n/a	<9.43E-08	4.62E-07	n/a	n/a	n/a	n/a	2.79E-07	20.66	
S11V004838		14733-03-0	Bismuth-214	uCi/g	n/a	<1.33E-07	5.74E-07	n/a	n/a	n/a	n/a	3.96E-07	22.65	
S11V004838		13982-63-3	Radium-226	uCi/g	n/a	<9.66E-07	5.61E-06	n/a	n/a	n/a	n/a	2.30E-06	14.41	
S11V004838		14274-82-9	Thorium-228	uCi/g	n/a	<2.55E-05	<6.34E-05	n/a	n/a	n/a	n/a	6.34E-05	n/a	U
S11V004838		15065-10-8	Thorium-234	uCi/g	n/a	<8.84E-07	<2.34E-06	n/a	n/a	n/a	n/a	2.34E-06	n/a	U
S11V004838		15046-84-1	Iodine-129	uCi/g	103	<1.61E-06	<1.87E-06	n/a	n/a	n/a	n/a	1.87E-06	n/a	U
S11V004840	A	7440-36-0	Antimony	ug/g	94.3	3.24E-04	0.269	n/a	n/a	n/a	n/a	6.52E-03	n/a	
S11V004840	A	SN-117	Tin-117	ug/g	105	<1.00E-03	0.0380	n/a	n/a	n/a	n/a	0.0326	n/a	
S11V004840	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	3.81E-03	n/a	n/a	n/a	n/a	6.52E-04	n/a	E
S11V004842	W	16984-48-8	Fluoride	ug/g	95.6	<1.61E-03	2.05	n/a	n/a	n/a	n/a	0.0158	n/a	
S11V004842	W	GLYCOLAT	Glycolate	ug/g	95.8	<9.37E-03	<0.0918	n/a	n/a	n/a	n/a	0.0918	n/a	U
S11V004842	W	71-50-1	Acetate	ug/g	103	<6.04E-03	0.304	n/a	n/a	n/a	n/a	0.0599	n/a	B
S11V004842	W	FORMATE	Formate	ug/g	87.4	<4.67E-03	0.421	n/a	n/a	n/a	n/a	0.0463	n/a	B
S11V004842	W	16887-00-6	Chloride	ug/g	97.0	<9.98E-03	0.829	n/a	n/a	n/a	n/a	0.0977	n/a	
S11V004842	W	14797-65-0	Nitrite	ug/g	96.8	0.0330	0.361	n/a	n/a	n/a	n/a	0.188	n/a	CB

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X5
Sample Depth: 16.1'-18.1'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004842	W	14808-79-8	Sulfate	ug/g	98.2	<0.0187	11.3	n/a	n/a	n/a	n/a	0.183	n/a	
S11V004842	W	338-70-5	Oxalate	ug/g	95.4	<0.0231	0.898	n/a	n/a	n/a	n/a	0.226	n/a	B
S11V004842	W	24959-67-9	Bromide	ug/g	98.1	<0.0580	1.76	n/a	n/a	n/a	n/a	0.568	n/a	B
S11V004842	W	14797-55-8	Nitrate	ug/g	96.9	<0.0208	8.83	n/a	n/a	n/a	n/a	0.204	n/a	
S11V004842	W	14265-44-2	Phosphate	ug/g	96.6	<0.0167	0.872	n/a	n/a	n/a	n/a	0.164	n/a	B
S11V004843	A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	6.98E+03	n/a	n/a	n/a	n/a	6.62	n/a	
S11V004843	A	7440-39-3	Barium	ug/g	92.4	<3.00E-03	80.3	n/a	n/a	n/a	n/a	0.662	n/a	
S11V004843	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.221	n/a	n/a	n/a	n/a	0.221	n/a	U
S11V004843	A	7440-70-2	Calcium	ug/g	82.4	<0.0500	8.99E+03	n/a	n/a	n/a	n/a	11.0	n/a	
S11V004843	A	7440-45-1	Cerium	ug/g	96.2	<0.0300	25.1	n/a	n/a	n/a	n/a	6.62	n/a	B
S11V004843	A	7440-48-4	Cobalt	ug/g	87.5	<0.0100	9.20	n/a	n/a	n/a	n/a	2.21	n/a	B
S11V004843	A	7440-47-3	Chromium	ug/g	88.2	<5.00E-03	5.97	n/a	n/a	n/a	n/a	1.10	n/a	B
S11V004843	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	12.8	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004843	A	7439-89-6	Iron	ug/g	88.2	<5.00E-03	2.62E+04	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004843	A	7440-09-7	Potassium	ug/g	77.3	<0.500	934	n/a	n/a	n/a	n/a	110	n/a	B
S11V004843	A	7439-91-0	Lanthanum	ug/g	91.6	<3.00E-03	11.5	n/a	n/a	n/a	n/a	0.662	n/a	
S11V004843	A	7439-93-2	Lithium	ug/g	97.5	<3.00E-03	7.10	n/a	n/a	n/a	n/a	0.662	n/a	
S11V004843	A	7439-95-4	Magnesium	ug/g	85.5	<0.0500	5.39E+03	n/a	n/a	n/a	n/a	11.0	n/a	
S11V004843	A	7439-96-5	Manganese	ug/g	87.2	<3.00E-03	377	n/a	n/a	n/a	n/a	0.662	n/a	
S11V004843	A	7439-98-7	Molybdenum	ug/g	88.8	<0.0200	<4.41	n/a	n/a	n/a	n/a	4.41	n/a	U
S11V004843	A	7440-23-5	Sodium	ug/g	100	<0.100	444	n/a	n/a	n/a	n/a	19.9	n/a	
S11V004843	A	7440-02-0	Nickel	ug/g	86.7	<0.0200	8.28	n/a	n/a	n/a	n/a	4.41	n/a	B
S11V004843	A	7723-14-0	Phosphorus	ug/g	88.3	<0.0500	1.02E+03	n/a	n/a	n/a	n/a	11.0	n/a	
S11V004843	A	7440-10-0	Praseodymium	ug/g	97.8	<0.0100	4.98	n/a	n/a	n/a	n/a	2.21	n/a	CB
S11V004843	A	7704-34-9	Sulfur	ug/g	88.2	<0.100	85.7	n/a	n/a	n/a	n/a	22.1	n/a	B
S11V004843	A	7440-21-3	Silicon	ug/g	74.1	<0.0300	66.0	n/a	n/a	n/a	n/a	6.62	n/a	BN
S11V004843	A	7440-31-5	Tin	ug/g	84.1	<0.0300	9.79	n/a	n/a	n/a	n/a	6.62	n/a	B
S11V004843	A	7440-24-6	Strontium	ug/g	91.8	<3.00E-03	30.1	n/a	n/a	n/a	n/a	0.662	n/a	

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X5
Sample Depth: 16.1'-18.1'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004843	A	7440-32-6	Titanium	ug/g	90.0	<5.00E-03	1.98E+03	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004843	A	7440-62-2	Vanadium	ug/g	89.7	<5.00E-03	66.5	n/a	n/a	n/a	n/a	1.10	n/a	N
S11V004843	A	7440-65-5	Yttrium	ug/g	90.0	<2.00E-03	12.5	n/a	n/a	n/a	n/a	0.441	n/a	
S11V004843	A	7440-66-6	Zinc	ug/g	86.6	<5.00E-03	47.5	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004843	A	7440-67-7	Zirconium	ug/g	88.6	<5.00E-03	6.52	n/a	n/a	n/a	n/a	1.10	n/a	BN
S11V004843	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.09E-05	n/a	n/a	n/a	n/a	3.09E-05	n/a	U
S11V004843	A	TH-232	Thorium-232	ug/g	99.2	<2.50E-04	2.44	n/a	n/a	n/a	n/a	2.21E-03	n/a	
S11V004843	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<8.83E-04	n/a	n/a	n/a	n/a	8.83E-04	n/a	U
S11V004843	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	3.86E-05	n/a	n/a	n/a	n/a	2.21E-05	n/a	
S11V004843	A	15117-96-1	Uranium-235	ug/g	92.4	<5.00E-06	3.45E-03	n/a	n/a	n/a	n/a	4.41E-05	n/a	
S11V004843	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.77E-05	n/a	n/a	n/a	n/a	1.77E-05	n/a	U
S11V004843	A	13994-20-2	Neptunium-237	ug/g	96.7	<5.00E-05	<4.41E-04	n/a	n/a	n/a	n/a	4.41E-04	n/a	U
S11V004843	A	U-238	Uranium-238	ug/g	98.0	<2.50E-04	0.469	n/a	n/a	n/a	n/a	2.21E-03	n/a	N
S11V004843	A	7440-22-4	Silver	ug/g	99.7	<4.00E-03	0.0525	n/a	n/a	n/a	n/a	0.0353	n/a	B
S11V004843	A	7440-38-2	Arsenic	ug/g	88.2	<0.0210	3.17	n/a	n/a	n/a	n/a	0.185	n/a	
S11V004843	A	7440-43-9	Cadmium	ug/g	108	<1.50E-03	0.0966	n/a	n/a	n/a	n/a	0.0132	n/a	B
S11V004843	A	7439-92-1	Lead	ug/g	118	<0.0155	4.97	n/a	n/a	n/a	n/a	0.137	n/a	
S11V004843	A	7782-49-2	Selenium	ug/g	115	0.0596	<0.269	n/a	n/a	n/a	n/a	0.269	n/a	U
S11V004843	A	7440-28-0	Thallium	ug/g	118	9.49E-03	0.123	n/a	n/a	n/a	n/a	0.0177	n/a	CB
S11V004844	S	14798-03-9	Ammonium	ug/g	94.6	<0.120	1.99	1.02	1.50	64.3	94.8	0.473	n/a	B
S11V004845	A	14133-76-7	Technetium-99	ug/g	117	<6.00E-05	<6.04E-04	<6.00E-05	n/a	n/a	95.5	6.04E-04	n/a	U
S11V004846	W	14762-75-5	Carbon-14	uCi/g	96.2	<2.07E-06	<2.24E-06	n/a	n/a	n/a	n/a	2.24E-06	n/a	U
S11V004846	W	10028-17-8	Tritium	uCi/g	99.6	<1.55E-06	<2.00E-06	n/a	n/a	n/a	n/a	2.00E-06	n/a	U
S11V004847	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.58E-08	<3.18E-08	n/a	n/a	n/a	n/a	3.18E-08	n/a	U
S11V004847	E	14596-10-2	Americium-241	uCi/g	100	<2.51E-08	<2.97E-08	n/a	n/a	n/a	n/a	2.97E-08	n/a	U
S11V004847	E	15510-73-3	Curium-242	uCi/g	n/a	<1.85E-08	<5.57E-08	n/a	n/a	n/a	n/a	5.57E-08	n/a	U
S11V004847	E	PU-239/240	Plutonium-239/240	uCi/g	108	<4.22E-08	<4.59E-08	n/a	n/a	n/a	n/a	4.59E-08	n/a	U
S11V004847	E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.19E-08	<4.47E-08	n/a	n/a	n/a	n/a	4.47E-08	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X5
Sample Depth: 16.1'-18.1'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004848	E	SR-89/90	Strontium-89/90	uCi/g	94.4	<5.62E-07	<2.66E-07	n/a	n/a	n/a	n/a	2.66E-07	n/a	U
S11V004849	E	13981-37-8	Nickel-63	uCi/g	92.5	<3.31E-06	<3.51E-06	n/a	n/a	n/a	n/a	3.51E-06	n/a	U
S11V004850	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.22E-06	<1.57E-06	n/a	n/a	n/a	n/a	1.57E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X5 WE
Sample Depth: 16.1'-18.1'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004839		CONDUCT	Conductivity	uMHO/cm	96.2	0.865	172	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004839	WV	14133-76-7	Technetium-99	ug/g	107	<6.00E-06	<6.04E-06	n/a	n/a	n/a	n/a	6.04E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X6
Sample Depth: 65'-67'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004855		%WATERA	%WATER-APD	%	n/a	n/a	2.750	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V004855		57-12-5	Cyanide	ug/g	97.1	<0.0370	<0.480	<0.480	n/a	n/a	101	0.480	n/a	U
S11V004855		WT%SOLID	Weight percent solids	%	n/a	n/a	97.2	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004855		7439-97-6	Mercury	ug/g	98.6	<1.00E-04	<9.25E-03	n/a	n/a	n/a	n/a	9.25E-03	n/a	U
S11V004855		PH	pH	unitless	n/a	n/a	8.00	8.28	8.14	3.44	n/a	0.0100	n/a	
S11V004856		13966-00-2	Potassium-40	uCi/g	n/a	<1.82E-06	1.11E-05	n/a	n/a	n/a	n/a	2.68E-06	6.29	
S11V004856		10198-40-0	Cobalt-60	uCi/g	99.7	<5.99E-08	<9.22E-08	n/a	n/a	n/a	n/a	9.22E-08	n/a	U
S11V004856		14234-35-6	Antimony-125	uCi/g	n/a	<1.49E-07	<2.36E-07	n/a	n/a	n/a	n/a	2.36E-07	n/a	U
S11V004856		10045-97-3	Cesium-137	uCi/g	100	<5.07E-08	<9.87E-08	n/a	n/a	n/a	n/a	9.87E-08	n/a	U
S11V004856		14683-23-9	Europium-152	uCi/g	n/a	<1.07E-07	<1.76E-07	n/a	n/a	n/a	n/a	1.76E-07	n/a	U
S11V004856		15585-10-1	Europium-154	uCi/g	n/a	<8.89E-08	<1.26E-07	n/a	n/a	n/a	n/a	1.26E-07	n/a	U
S11V004856		14391-16-3	Europium-155	uCi/g	n/a	<1.58E-07	<2.37E-07	n/a	n/a	n/a	n/a	2.37E-07	n/a	U
S11V004856		14913-50-9	Thallium-208	uCi/g	n/a	<6.23E-08	2.29E-07	n/a	n/a	n/a	n/a	9.23E-08	11.37	
S11V004856		15092-94-1	Lead-212	uCi/g	n/a	<9.43E-08	5.44E-07	n/a	n/a	n/a	n/a	1.55E-07	10.08	
S11V004856		14733-03-0	Bismuth-214	uCi/g	n/a	<1.33E-07	4.02E-07	n/a	n/a	n/a	n/a	2.21E-07	18.88	
S11V004856		13982-63-3	Radium-226	uCi/g	n/a	<9.66E-07	3.58E-06	n/a	n/a	n/a	n/a	1.38E-06	14.00	
S11V004856		14331-83-0	Actinium-228	uCi/g	n/a	<3.59E-07	6.34E-07	n/a	n/a	n/a	n/a	5.53E-07	18.73	
S11V004856		14274-82-9	Thorium-228	uCi/g	n/a	<2.55E-05	<3.71E-05	n/a	n/a	n/a	n/a	3.71E-05	n/a	U
S11V004856		15065-10-8	Thorium-234	uCi/g	n/a	<8.84E-07	<1.70E-06	n/a	n/a	n/a	n/a	1.70E-06	n/a	U
S11V004856		15046-84-1	Iodine-129	uCi/g	103	<1.61E-06	<2.05E-06	n/a	n/a	n/a	n/a	2.05E-06	n/a	U
S11V004858	A	7440-36-0	Antimony	ug/g	94.3	3.24E-04	0.132	n/a	n/a	n/a	n/a	6.15E-03	n/a	
S11V004858	A	SN-117	Tin-117	ug/g	105	<1.00E-03	<0.0308	n/a	n/a	n/a	n/a	0.0308	n/a	U
S11V004858	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	0.0151	n/a	n/a	n/a	n/a	6.15E-04	n/a	E
S11V004859	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.1	<77.4	<76.7	n/a	n/a	n/a	70.6	76.7	n/a	U
S11V004859	O	95-50-1	1,2-Dichlorobenzene	ug/kg	71.5	<101	<99.8	n/a	n/a	n/a	70.2	99.8	n/a	U
S11V004859	O	121-14-2	2,4-Dinitrotoluene	ug/kg	93.3	<38.1	<37.8	n/a	n/a	n/a	91.9	37.8	n/a	U
S11V004859	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	87.8	<44.0	<43.6	n/a	n/a	n/a	84.4	43.6	n/a	U
S11V004859	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	83.1	<49.5	<49.1	n/a	n/a	n/a	79.0	49.1	n/a	U

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B - Blank Contamination
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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X6
Sample Depth: 65'-67'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004859	O	95-48-7	2-Methylphenol	ug/kg	70.5	<57.5	<57.0	n/a	n/a	n/a	69.4	57.0	n/a	UT
S11V004859	O	88-75-5	2-Nitrophenol	ug/kg	70.9	<53.7	<53.2	n/a	n/a	n/a	69.3	53.2	n/a	UT
S11V004859	O	65794-96-9	3 &4 Methylphenol	ug/kg	72.4	<51.4	<51.0	n/a	n/a	n/a	70.9	51.0	n/a	U
S11V004859	O	83-32-9	Acenaphthene	ug/kg	83.1	<17.6	<17.4	n/a	n/a	n/a	82.1	17.4	n/a	U
S11V004859	O	56-55-3	Benzo(a)anthracene	ug/kg	93.9	<37.8	<37.5	n/a	n/a	n/a	93.9	37.5	n/a	U
S11V004859	O	205-99-2	Benzo(b)fluoranthene	ug/kg	92.2	<48.9	<48.5	n/a	n/a	n/a	93.1	48.5	n/a	U
S11V004859	O	50-32-8	Benzo(a)pyrene	ug/kg	93.8	<41.2	<40.8	n/a	n/a	n/a	94.7	40.8	n/a	U
S11V004859	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	95.6	<590	<585	n/a	n/a	n/a	98.6	585	n/a	U
S11V004859	O	207-08-9	Benzo(k)fluoranthene	ug/kg	99.2	<39.1	<38.8	n/a	n/a	n/a	99.9	38.8	n/a	U
S11V004859	O	85-68-7	Butylbenzylphthalate	ug/kg	97.9	<50.0	<49.6	n/a	n/a	n/a	101	49.6	n/a	U
S11V004859	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	78.4	<43.2	<42.8	n/a	n/a	n/a	76.8	42.8	n/a	U
S11V004859	O	95-57-8	2-Chlorophenol	ug/kg	73.5	<66.5	<65.9	n/a	n/a	n/a	72.5	65.9	n/a	U
S11V004859	O	218-01-9	Chrysene	ug/kg	93.4	<81.4	<80.7	n/a	n/a	n/a	93.7	80.7	n/a	U
S11V004859	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	95.6	<51.1	<50.7	n/a	n/a	n/a	98.9	50.7	n/a	U
S11V004859	O	84-74-2	Di-n-butylphthalate	ug/kg	99.0	<562	<558	n/a	n/a	n/a	98.5	558	n/a	U
S11V004859	O	117-84-0	Di-n-octylphthalate	ug/kg	86.0	<47.7	<47.3	n/a	n/a	n/a	88.2	47.3	n/a	U
S11V004859	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	71.4	<58.1	<57.6	n/a	n/a	n/a	69.4	57.6	n/a	U
S11V004859	O	206-44-0	Fluoranthene	ug/kg	92.8	<35.4	<35.1	n/a	n/a	n/a	90.4	35.1	n/a	U
S11V004859	O	87-68-3	Hexachlorobutadiene	ug/kg	73.9	<69.7	<69.1	n/a	n/a	n/a	72.2	69.1	n/a	U
S11V004859	O	67-72-1	Hexachloroethane	ug/kg	57.3	<112	<111	n/a	n/a	n/a	54.7	111	n/a	UT
S11V004859	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	93.9	<51.0	<50.6	n/a	n/a	n/a	96.8	50.6	n/a	U
S11V004859	O	91-20-3	Naphthalene	ug/kg	72.9	<62.6	<62.1	n/a	n/a	n/a	72.1	62.1	n/a	U
S11V004859	O	98-95-3	Nitrobenzene	ug/kg	74.3	<64.6	<64.0	n/a	n/a	n/a	71.8	64.0	n/a	U
S11V004859	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U
S11V004859	O	129-00-0	Pyrene	ug/kg	98.5	<62.9	<62.4	n/a	n/a	n/a	100	62.4	n/a	U
S11V004859	O	110-86-1	Pyridine	ug/kg	68.2	<65.0	<64.4	n/a	n/a	n/a	66.5	64.4	n/a	UT
S11V004859	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S11V004859	O	128-37-0	BHT	ug/kg	67.2	<236	<234	n/a	n/a	n/a	64.7	234	n/a	UT

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X6
Sample Depth: 65'-67'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004859	O	110-80-5	2-Ethoxyethanol	ug/kg	80.7	<182	<181	n/a	n/a	n/a	73.1	181	n/a	U
S11V004859	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S11V004859	O	108-94-1	Cyclohexanone	ug/kg	63.1	<559	<554	n/a	n/a	n/a	62.5	554	n/a	UT
S11V004859	O	59-89-2	N-Nitrosomorpholine	ug/kg	78.9	<191	<190	n/a	n/a	n/a	76.4	190	n/a	U
S11V004860	W	16984-48-8	Fluoride	ug/g	95.6	<1.61E-03	0.580	n/a	n/a	n/a	n/a	0.0154	n/a	
S11V004860	W	GLYCOLAT	Glycolate	ug/g	95.8	<9.37E-03	<0.0895	n/a	n/a	n/a	n/a	0.0895	n/a	U
S11V004860	W	71-50-1	Acetate	ug/g	103	<6.04E-03	<0.0600	n/a	n/a	n/a	n/a	0.0600	n/a	U
S11V004860	W	FORMATE	Formate	ug/g	87.4	<4.67E-03	0.362	n/a	n/a	n/a	n/a	0.0464	n/a	B
S11V004860	W	16887-00-6	Chloride	ug/g	97.0	<9.98E-03	0.855	n/a	n/a	n/a	n/a	0.0953	n/a	
S11V004860	W	14797-65-0	Nitrite	ug/g	96.8	0.0330	0.303	n/a	n/a	n/a	n/a	0.183	n/a	CB
S11V004860	W	14808-79-8	Sulfate	ug/g	98.2	<0.0187	15.5	n/a	n/a	n/a	n/a	0.179	n/a	
S11V004860	W	338-70-5	Oxalate	ug/g	95.4	<0.0231	<0.221	n/a	n/a	n/a	n/a	0.221	n/a	U
S11V004860	W	24959-67-9	Bromide	ug/g	98.1	<0.0580	<0.554	n/a	n/a	n/a	n/a	0.554	n/a	U
S11V004860	W	14797-55-8	Nitrate	ug/g	96.9	<0.0208	5.01	n/a	n/a	n/a	n/a	0.199	n/a	
S11V004860	W	14265-44-2	Phosphate	ug/g	96.6	<0.0167	0.422	n/a	n/a	n/a	n/a	0.160	n/a	B
S11V004861	A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	6.74E+03	n/a	n/a	n/a	n/a	6.61	n/a	
S11V004861	A	7440-39-3	Barium	ug/g	92.4	<3.00E-03	57.9	n/a	n/a	n/a	n/a	0.661	n/a	
S11V004861	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.220	n/a	n/a	n/a	n/a	0.220	n/a	U
S11V004861	A	7440-70-2	Calcium	ug/g	82.4	<0.0500	7.65E+03	n/a	n/a	n/a	n/a	11.0	n/a	
S11V004861	A	7440-45-1	Cerium	ug/g	96.2	<0.0300	21.7	n/a	n/a	n/a	n/a	6.61	n/a	B
S11V004861	A	7440-48-4	Cobalt	ug/g	87.5	<0.0100	6.61	n/a	n/a	n/a	n/a	2.20	n/a	B
S11V004861	A	7440-47-3	Chromium	ug/g	88.2	<5.00E-03	26.1	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004861	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	10.1	n/a	n/a	n/a	n/a	1.10	n/a	B
S11V004861	A	7439-89-6	Iron	ug/g	88.2	<5.00E-03	1.85E+04	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004861	A	7440-09-7	Potassium	ug/g	77.3	<0.500	951	n/a	n/a	n/a	n/a	110	n/a	B
S11V004861	A	7439-91-0	Lanthanum	ug/g	91.6	<3.00E-03	9.57	n/a	n/a	n/a	n/a	0.661	n/a	
S11V004861	A	7439-93-2	Lithium	ug/g	97.5	<3.00E-03	8.95	n/a	n/a	n/a	n/a	0.661	n/a	
S11V004861	A	7439-95-4	Magnesium	ug/g	85.5	<0.0500	4.60E+03	n/a	n/a	n/a	n/a	11.0	n/a	

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

C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X6
Sample Depth: 65'-67'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004861	A	7439-96-5	Manganese	ug/g	87.2	<3.00E-03	277	n/a	n/a	n/a	n/a	0.661	n/a	
S11V004861	A	7439-98-7	Molybdenum	ug/g	88.8	<0.0200	<4.41	n/a	n/a	n/a	n/a	4.41	n/a	U
S11V004861	A	7440-23-5	Sodium	ug/g	91.5	<0.100	316	n/a	n/a	n/a	n/a	17.8	n/a	
S11V004861	A	7440-02-0	Nickel	ug/g	86.7	<0.0200	16.9	n/a	n/a	n/a	n/a	4.41	n/a	B
S11V004861	A	7723-14-0	Phosphorus	ug/g	88.3	<0.0500	626	n/a	n/a	n/a	n/a	11.0	n/a	
S11V004861	A	7440-10-0	Praseodymium	ug/g	97.8	<0.0100	3.22	n/a	n/a	n/a	n/a	2.20	n/a	CB
S11V004861	A	7704-34-9	Sulfur	ug/g	88.2	<0.100	62.2	n/a	n/a	n/a	n/a	22.0	n/a	B
S11V004861	A	7440-21-3	Silicon	ug/g	74.1	<0.0300	54.2	n/a	n/a	n/a	n/a	6.61	n/a	BN
S11V004861	A	7440-24-6	Strontium	ug/g	91.8	<3.00E-03	30.9	n/a	n/a	n/a	n/a	0.661	n/a	
S11V004861	A	7440-32-6	Titanium	ug/g	90.0	<5.00E-03	1.21E+03	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004861	A	7440-62-2	Vanadium	ug/g	89.7	<5.00E-03	43.5	n/a	n/a	n/a	n/a	1.10	n/a	N
S11V004861	A	7440-65-5	Yttrium	ug/g	90.0	<2.00E-03	7.35	n/a	n/a	n/a	n/a	0.441	n/a	
S11V004861	A	7440-66-6	Zinc	ug/g	86.6	<5.00E-03	34.9	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004861	A	7440-67-7	Zirconium	ug/g	88.6	<5.00E-03	10.3	n/a	n/a	n/a	n/a	1.10	n/a	BN
S11V004861	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	5.18E-05	n/a	n/a	n/a	n/a	3.09E-05	n/a	
S11V004861	A	TH-232	Thorium-232	ug/g	99.2	<2.50E-04	2.83	n/a	n/a	n/a	n/a	2.20E-03	n/a	
S11V004861	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<8.82E-04	n/a	n/a	n/a	n/a	8.82E-04	n/a	U
S11V004861	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	2.89E-05	n/a	n/a	n/a	n/a	2.20E-05	n/a	
S11V004861	A	15117-96-1	Uranium-235	ug/g	92.4	<5.00E-06	3.14E-03	n/a	n/a	n/a	n/a	4.41E-05	n/a	
S11V004861	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.76E-05	n/a	n/a	n/a	n/a	1.76E-05	n/a	U
S11V004861	A	13994-20-2	Neptunium-237	ug/g	96.7	<5.00E-05	<4.41E-04	n/a	n/a	n/a	n/a	4.41E-04	n/a	U
S11V004861	A	U-238	Uranium-238	ug/g	98.0	<2.50E-04	0.445	n/a	n/a	n/a	n/a	2.20E-03	n/a	N
S11V004861	A	7440-22-4	Silver	ug/g	99.7	<4.00E-03	0.0457	n/a	n/a	n/a	n/a	0.0353	n/a	B
S11V004861	A	7440-38-2	Arsenic	ug/g	88.2	<0.0210	1.92	n/a	n/a	n/a	n/a	0.185	n/a	
S11V004861	A	7440-43-9	Cadmium	ug/g	108	<1.50E-03	0.0841	n/a	n/a	n/a	n/a	0.0132	n/a	B
S11V004861	A	7439-92-1	Lead	ug/g	118	<0.0155	3.59	n/a	n/a	n/a	n/a	0.137	n/a	
S11V004861	A	7782-49-2	Selenium	ug/g	115	0.0596	<0.269	n/a	n/a	n/a	n/a	0.269	n/a	U
S11V004861	A	7440-28-0	Thallium	ug/g	118	9.49E-03	0.112	n/a	n/a	n/a	n/a	0.0176	n/a	CB

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X6
Sample Depth: 65'-67'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004862	S	14798-03-9	Ammonium	ug/g	96.2	<0.120	1.19	1.03	1.11	14.8	102	0.477	n/a	B
S11V004863	A	14133-76-7	Technetium-99	ug/g	101	<6.00E-05	<5.40E-04	n/a	n/a	n/a	n/a	5.40E-04	n/a	U
S11V004864	W	14762-75-5	Carbon-14	uCi/g	96.2	<2.07E-06	<1.66E-06	n/a	n/a	n/a	n/a	1.66E-06	n/a	U
S11V004864	W	10028-17-8	Tritium	uCi/g	99.6	<1.55E-06	<2.24E-06	n/a	n/a	n/a	n/a	2.24E-06	n/a	U
S11V004865	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.58E-08	<3.29E-08	n/a	n/a	n/a	n/a	3.29E-08	n/a	U
S11V004865	E	14596-10-2	Americium-241	uCi/g	100	<2.51E-08	<2.69E-08	n/a	n/a	n/a	n/a	2.69E-08	n/a	U
S11V004865	E	15510-73-3	Curium-242	uCi/g	n/a	<1.85E-08	<3.31E-08	n/a	n/a	n/a	n/a	3.31E-08	n/a	U
S11V004865	E	PU-239/240	Plutonium-239/240	uCi/g	108	<4.22E-08	<4.98E-08	n/a	n/a	n/a	n/a	4.98E-08	n/a	U
S11V004865	E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.19E-08	<3.50E-08	n/a	n/a	n/a	n/a	3.50E-08	n/a	U
S11V004866	E	SR-89/90	Strontium-89/90	uCi/g	94.4	<5.62E-07	<1.83E-07	n/a	n/a	n/a	n/a	1.83E-07	n/a	U
S11V004867	E	13981-37-8	Nickel-63	uCi/g	92.5	<3.31E-06	<3.21E-06	n/a	n/a	n/a	n/a	3.21E-06	n/a	U
S11V004868	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.22E-06	<1.71E-06	n/a	n/a	n/a	n/a	1.71E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X6 WE
Sample Depth: 65'-67'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004857		CONDUCT	Conductivity	uMHO/cm	96.2	0.865	140	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004857	WV	14133-76-7	Technetium-99	ug/g	107	<6.00E-06	<5.88E-06	n/a	n/a	n/a	n/a	5.88E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X7
Sample Depth: 96'-98'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004904		%WATERA	%WATER-APD	%	n/a	n/a	4.010	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V004904		57-12-5	Cyanide	ug/g	97.1	<0.0370	<0.480	n/a	n/a	n/a	n/a	0.480	n/a	U
S11V004904		WT%SOLID	Weight percent solids	%	n/a	n/a	96.0	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004904		7439-97-6	Mercury	ug/g	98.6	<1.00E-04	<9.10E-03	n/a	n/a	n/a	n/a	9.10E-03	n/a	U
S11V004904		PH	pH	unitless	n/a	n/a	8.45	8.39	8.42	0.713	n/a	0.0100	n/a	
S11V004905		13966-00-2	Potassium-40	uCi/g	n/a	<4.01E-06	1.64E-05	n/a	n/a	n/a	n/a	2.31E-06	3.68	
S11V004905		10198-40-0	Cobalt-60	uCi/g	101	<1.38E-07	<8.25E-08	n/a	n/a	n/a	n/a	8.25E-08	n/a	U
S11V004905		14234-35-6	Antimony-125	uCi/g	n/a	<3.28E-07	<1.99E-07	n/a	n/a	n/a	n/a	1.99E-07	n/a	U
S11V004905		10045-97-3	Cesium-137	uCi/g	102	<1.32E-07	<7.71E-08	n/a	n/a	n/a	n/a	7.71E-08	n/a	U
S11V004905		14683-23-9	Europium-152	uCi/g	n/a	<2.32E-07	<1.45E-07	n/a	n/a	n/a	n/a	1.45E-07	n/a	U
S11V004905		15585-10-1	Europium-154	uCi/g	n/a	<1.71E-07	<9.68E-08	n/a	n/a	n/a	n/a	9.68E-08	n/a	U
S11V004905		14391-16-3	Europium-155	uCi/g	n/a	<2.97E-07	<1.87E-07	n/a	n/a	n/a	n/a	1.87E-07	n/a	U
S11V004905		14913-50-9	Thallium-208	uCi/g	n/a	<1.61E-07	2.16E-07	n/a	n/a	n/a	n/a	9.84E-08	16.17	
S11V004905		14913-49-6	Bismuth-212	uCi/g	n/a	<1.57E-06	1.54E-06	n/a	n/a	n/a	n/a	9.38E-07	17.86	
S11V004905		15092-94-1	Lead-212	uCi/g	n/a	<2.00E-07	7.37E-07	n/a	n/a	n/a	n/a	1.31E-07	5.28	
S11V004905		14733-03-0	Bismuth-214	uCi/g	n/a	<3.30E-07	5.62E-07	n/a	n/a	n/a	n/a	1.93E-07	11.97	
S11V004905		13982-63-3	Radium-226	uCi/g	n/a	5.20E-06	6.98E-06	n/a	n/a	n/a	n/a	1.16E-06	6.08	B
S11V004905		14331-83-0	Actinium-228	uCi/g	n/a	<8.19E-07	7.33E-07	n/a	n/a	n/a	n/a	4.73E-07	16.79	
S11V004905		14274-82-9	Thorium-228	uCi/g	n/a	<4.54E-05	<3.55E-05	n/a	n/a	n/a	n/a	3.55E-05	n/a	U
S11V004905		15065-10-8	Thorium-234	uCi/g	n/a	<3.11E-06	<1.53E-05	n/a	n/a	n/a	n/a	1.53E-05	n/a	U
S11V004905		15046-84-1	Iodine-129	uCi/g	103	<1.61E-06	<9.13E-07	n/a	n/a	n/a	n/a	9.13E-07	n/a	U
S11V004907	A	7440-36-0	Antimony	ug/g	94.3	3.24E-04	0.213	n/a	n/a	n/a	n/a	6.70E-03	n/a	
S11V004907	A	SN-117	Tin-117	ug/g	105	<1.00E-03	<0.0335	n/a	n/a	n/a	n/a	0.0335	n/a	U
S11V004907	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	0.0172	n/a	n/a	n/a	n/a	6.70E-04	n/a	E
S11V004908	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.1	<77.4	<77.0	n/a	n/a	n/a	n/a	77.0	n/a	U
S11V004908	O	95-50-1	1,2-Dichlorobenzene	ug/kg	71.5	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S11V004908	O	121-14-2	2,4-Dinitrotoluene	ug/kg	93.3	<38.1	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S11V004908	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	87.8	<44.0	<43.8	n/a	n/a	n/a	n/a	43.8	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X7
Sample Depth: 96'-98'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004908	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	83.1	<49.5	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S11V004908	O	95-48-7	2-Methylphenol	ug/kg	70.5	<57.5	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	UT
S11V004908	O	88-75-5	2-Nitrophenol	ug/kg	70.9	<53.7	<53.4	n/a	n/a	n/a	n/a	53.4	n/a	UT
S11V004908	O	65794-96-9	3 &4 Methylphenol	ug/kg	72.4	<51.4	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S11V004908	O	83-32-9	Acenaphthene	ug/kg	83.1	<17.6	<17.5	n/a	n/a	n/a	n/a	17.5	n/a	U
S11V004908	O	56-55-3	Benzo(a)anthracene	ug/kg	93.9	<37.8	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S11V004908	O	205-99-2	Benzo(b)fluoranthene	ug/kg	92.2	<48.9	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S11V004908	O	50-32-8	Benzo(a)pyrene	ug/kg	93.8	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S11V004908	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	95.6	<590	<587	n/a	n/a	n/a	n/a	587	n/a	U
S11V004908	O	207-08-9	Benzo(k)fluoranthene	ug/kg	99.2	<39.1	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S11V004908	O	85-68-7	Butylbenzylphthalate	ug/kg	97.9	<50.0	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S11V004908	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	78.4	<43.2	<43.0	n/a	n/a	n/a	n/a	43.0	n/a	U
S11V004908	O	95-57-8	2-Chlorophenol	ug/kg	73.5	<66.5	<66.2	n/a	n/a	n/a	n/a	66.2	n/a	U
S11V004908	O	218-01-9	Chrysene	ug/kg	93.4	<81.4	<81.0	n/a	n/a	n/a	n/a	81.0	n/a	U
S11V004908	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	95.6	<51.1	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S11V004908	O	84-74-2	Di-n-butylphthalate	ug/kg	99.0	<562	<560	n/a	n/a	n/a	n/a	560	n/a	U
S11V004908	O	117-84-0	Di-n-octylphthalate	ug/kg	86.0	<47.7	<47.5	n/a	n/a	n/a	n/a	47.5	n/a	U
S11V004908	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	71.4	<58.1	<57.8	n/a	n/a	n/a	n/a	57.8	n/a	U
S11V004908	O	206-44-0	Fluoranthene	ug/kg	92.8	<35.4	<35.2	n/a	n/a	n/a	n/a	35.2	n/a	U
S11V004908	O	87-68-3	Hexachlorobutadiene	ug/kg	73.9	<69.7	<69.4	n/a	n/a	n/a	n/a	69.4	n/a	U
S11V004908	O	67-72-1	Hexachloroethane	ug/kg	57.3	<112	<111	n/a	n/a	n/a	n/a	111	n/a	UT
S11V004908	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	93.9	<51.0	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S11V004908	O	91-20-3	Naphthalene	ug/kg	72.9	<62.6	<62.3	n/a	n/a	n/a	n/a	62.3	n/a	U
S11V004908	O	98-95-3	Nitrobenzene	ug/kg	74.3	<64.6	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S11V004908	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S11V004908	O	129-00-0	Pyrene	ug/kg	98.5	<62.9	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S11V004908	O	110-86-1	Pyridine	ug/kg	68.2	<65.0	<64.7	n/a	n/a	n/a	n/a	64.7	n/a	UT
S11V004908	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X7
Sample Depth: 96'-98'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004908	O	128-37-0	BHT	ug/kg	67.2	<236	<234	n/a	n/a	n/a	n/a	234	n/a	UT
S11V004908	O	110-80-5	2-Ethoxyethanol	ug/kg	80.7	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S11V004908	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S11V004908	O	108-94-1	Cyclohexanone	ug/kg	63.1	<559	<556	n/a	n/a	n/a	n/a	556	n/a	UT
S11V004908	O	59-89-2	N-Nitrosomorpholine	ug/kg	78.9	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S11V004909	W	16984-48-8	Fluoride	ug/g	95.6	<1.61E-03	0.712	n/a	n/a	n/a	n/a	0.0156	n/a	
S11V004909	W	GLYCOLAT	Glycolate	ug/g	95.8	<9.37E-03	<0.0910	n/a	n/a	n/a	n/a	0.0910	n/a	U
S11V004909	W	71-50-1	Acetate	ug/g	103	<6.04E-03	<0.0592	n/a	n/a	n/a	n/a	0.0592	n/a	U
S11V004909	W	FORMATE	Formate	ug/g	87.4	<4.67E-03	0.210	n/a	n/a	n/a	n/a	0.0458	n/a	B
S11V004909	W	16887-00-6	Chloride	ug/g	97.0	<9.98E-03	0.878	n/a	n/a	n/a	n/a	0.0969	n/a	
S11V004909	W	14797-65-0	Nitrite	ug/g	96.8	0.0330	0.524	n/a	n/a	n/a	n/a	0.186	n/a	CB
S11V004909	W	14808-79-8	Sulfate	ug/g	98.2	<0.0187	16.1	n/a	n/a	n/a	n/a	0.182	n/a	
S11V004909	W	338-70-5	Oxalate	ug/g	95.4	<0.0231	0.229	n/a	n/a	n/a	n/a	0.224	n/a	B
S11V004909	W	24959-67-9	Bromide	ug/g	98.1	<0.0580	<0.563	n/a	n/a	n/a	n/a	0.563	n/a	U
S11V004909	W	14797-55-8	Nitrate	ug/g	96.9	<0.0208	7.67	n/a	n/a	n/a	n/a	0.202	n/a	
S11V004909	W	14265-44-2	Phosphate	ug/g	96.6	<0.0167	0.394	n/a	n/a	n/a	n/a	0.162	n/a	B
S11V004910	A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	7.53E+03	n/a	n/a	n/a	n/a	6.52	n/a	
S11V004910	A	7440-39-3	Barium	ug/g	92.4	<3.00E-03	74.8	n/a	n/a	n/a	n/a	0.652	n/a	
S11V004910	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.217	n/a	n/a	n/a	n/a	0.217	n/a	U
S11V004910	A	7440-70-2	Calcium	ug/g	82.4	<0.0500	8.74E+03	n/a	n/a	n/a	n/a	10.9	n/a	
S11V004910	A	7440-45-1	Cerium	ug/g	96.2	<0.0300	24.5	n/a	n/a	n/a	n/a	6.52	n/a	B
S11V004910	A	7440-48-4	Cobalt	ug/g	87.5	<0.0100	5.67	n/a	n/a	n/a	n/a	2.17	n/a	B
S11V004910	A	7440-47-3	Chromium	ug/g	88.2	<5.00E-03	20.2	n/a	n/a	n/a	n/a	1.09	n/a	
S11V004910	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	9.68	n/a	n/a	n/a	n/a	1.09	n/a	B
S11V004910	A	7439-89-6	Iron	ug/g	88.2	<5.00E-03	1.67E+04	n/a	n/a	n/a	n/a	1.09	n/a	
S11V004910	A	7440-09-7	Potassium	ug/g	77.3	<0.500	1.22E+03	n/a	n/a	n/a	n/a	109	n/a	
S11V004910	A	7439-91-0	Lanthanum	ug/g	91.6	<3.00E-03	9.47	n/a	n/a	n/a	n/a	0.652	n/a	
S11V004910	A	7439-93-2	Lithium	ug/g	97.5	<3.00E-03	10.5	n/a	n/a	n/a	n/a	0.652	n/a	

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U - Less Than Detection Limit

C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X7
Sample Depth: 96'-98'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004910	A	7439-95-4	Magnesium	ug/g	85.5	<0.0500	5.16E+03	n/a	n/a	n/a	n/a	10.9	n/a	
S11V004910	A	7439-96-5	Manganese	ug/g	87.2	<3.00E-03	292	n/a	n/a	n/a	n/a	0.652	n/a	
S11V004910	A	7439-98-7	Molybdenum	ug/g	88.8	<0.0200	<4.34	n/a	n/a	n/a	n/a	4.34	n/a	U
S11V004910	A	7440-23-5	Sodium	ug/g	91.5	<0.100	262	n/a	n/a	n/a	n/a	18.1	n/a	
S11V004910	A	7440-02-0	Nickel	ug/g	86.7	<0.0200	16.5	n/a	n/a	n/a	n/a	4.34	n/a	B
S11V004910	A	7723-14-0	Phosphorus	ug/g	88.3	<0.0500	521	n/a	n/a	n/a	n/a	10.9	n/a	
S11V004910	A	7704-34-9	Sulfur	ug/g	88.2	<0.100	46.9	n/a	n/a	n/a	n/a	21.7	n/a	B
S11V004910	A	7440-21-3	Silicon	ug/g	74.1	<0.0300	51.0	n/a	n/a	n/a	n/a	6.52	n/a	BN
S11V004910	A	7440-24-6	Strontium	ug/g	91.8	<3.00E-03	37.5	n/a	n/a	n/a	n/a	0.652	n/a	
S11V004910	A	7440-32-6	Titanium	ug/g	90.0	<5.00E-03	862	n/a	n/a	n/a	n/a	1.09	n/a	
S11V004910	A	7440-62-2	Vanadium	ug/g	89.7	<5.00E-03	34.4	n/a	n/a	n/a	n/a	1.09	n/a	N
S11V004910	A	7440-65-5	Yttrium	ug/g	90.0	<2.00E-03	6.05	n/a	n/a	n/a	n/a	0.434	n/a	
S11V004910	A	7440-66-6	Zinc	ug/g	86.6	<5.00E-03	34.1	n/a	n/a	n/a	n/a	1.09	n/a	
S11V004910	A	7440-67-7	Zirconium	ug/g	88.6	<5.00E-03	7.46	n/a	n/a	n/a	n/a	1.09	n/a	BN
S11V004910	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.04E-05	n/a	n/a	n/a	n/a	3.04E-05	n/a	U
S11V004910	A	TH-232	Thorium-232	ug/g	99.2	<2.50E-04	3.56	n/a	n/a	n/a	n/a	2.17E-03	n/a	
S11V004910	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<8.69E-04	n/a	n/a	n/a	n/a	8.69E-04	n/a	U
S11V004910	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.17E-05	n/a	n/a	n/a	n/a	2.17E-05	n/a	U
S11V004910	A	15117-96-1	Uranium-235	ug/g	92.4	<5.00E-06	3.61E-03	n/a	n/a	n/a	n/a	4.34E-05	n/a	
S11V004910	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.74E-05	n/a	n/a	n/a	n/a	1.74E-05	n/a	U
S11V004910	A	13994-20-2	Neptunium-237	ug/g	96.7	<5.00E-05	<4.34E-04	n/a	n/a	n/a	n/a	4.34E-04	n/a	U
S11V004910	A	U-238	Uranium-238	ug/g	98.0	<2.50E-04	0.518	n/a	n/a	n/a	n/a	2.17E-03	n/a	N
S11V004910	A	7440-22-4	Silver	ug/g	99.7	<4.00E-03	0.0486	n/a	n/a	n/a	n/a	0.0348	n/a	B
S11V004910	A	7440-38-2	Arsenic	ug/g	88.2	<0.0210	1.93	n/a	n/a	n/a	n/a	0.182	n/a	
S11V004910	A	7440-43-9	Cadmium	ug/g	108	<1.50E-03	0.0788	n/a	n/a	n/a	n/a	0.0130	n/a	B
S11V004910	A	7439-92-1	Lead	ug/g	118	<0.0155	4.25	n/a	n/a	n/a	n/a	0.135	n/a	
S11V004910	A	7782-49-2	Selenium	ug/g	115	0.0596	<0.265	n/a	n/a	n/a	n/a	0.265	n/a	U
S11V004910	A	7440-28-0	Thallium	ug/g	118	9.49E-03	0.137	n/a	n/a	n/a	n/a	0.0174	n/a	CB

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X7
Sample Depth: 96'-98'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004911	S	14798-03-9	Ammonium	ug/g	99.4	<0.120	0.999	1.52	1.26	41.1	95.7	0.477	n/a	B
S11V004912	A	14133-76-7	Technetium-99	ug/g	101	<6.00E-05	<5.41E-04	n/a	n/a	n/a	n/a	5.41E-04	n/a	U
S11V004913	W	14762-75-5	Carbon-14	uCi/g	96.2	<2.07E-06	<1.24E-06	n/a	n/a	n/a	n/a	1.24E-06	n/a	U
S11V004913	W	10028-17-8	Tritium	uCi/g	99.6	<1.55E-06	2.01E-06	n/a	n/a	n/a	n/a	1.52E-06	146.021	
S11V004914	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.58E-08	<2.53E-08	n/a	n/a	n/a	n/a	2.53E-08	n/a	U
S11V004914	E	14596-10-2	Americium-241	uCi/g	100	<2.51E-08	<3.01E-08	n/a	n/a	n/a	n/a	3.01E-08	n/a	U
S11V004914	E	15510-73-3	Curium-242	uCi/g	n/a	<1.85E-08	<1.61E-08	n/a	n/a	n/a	n/a	1.61E-08	n/a	U
S11V004914	E	PU-239/240	Plutonium-239/240	uCi/g	108	<4.22E-08	<4.79E-08	n/a	n/a	n/a	n/a	4.79E-08	n/a	U
S11V004914	E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.19E-08	<3.41E-08	n/a	n/a	n/a	n/a	3.41E-08	n/a	U
S11V004915	E	SR-89/90	Strontium-89/90	uCi/g	94.4	<5.62E-07	<3.24E-07	n/a	n/a	n/a	n/a	3.24E-07	n/a	U
S11V004916	E	13981-37-8	Nickel-63	uCi/g	92.5	<3.31E-06	<3.41E-06	n/a	n/a	n/a	n/a	3.41E-06	n/a	U
S11V004917	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.22E-06	<1.86E-06	n/a	n/a	n/a	n/a	1.86E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X7 WE
Sample Depth: 96'-98'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004906		CONDUCT	Conductivity	uMHO/cm	96.2	0.865	148	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004906	WV	14133-76-7	Technetium-99	ug/g	107	<6.00E-06	<5.89E-06	n/a	n/a	n/a	n/a	5.89E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X8
Sample Depth: 155'-157'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004922		%WATERA	%WATER-APD	%	n/a	n/a	2.590	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V004922		57-12-5	Cyanide	ug/g	93.7	<0.0370	<0.480	<0.480	n/a	n/a	89.5	0.480	n/a	U
S11V004922		WT%SOLID	Weight percent solids	%	n/a	n/a	97.4	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004922		7439-97-6	Mercury	ug/g	101	<1.00E-04	<9.53E-03	n/a	n/a	n/a	91.1	9.53E-03	n/a	U
S11V004922		PH	pH	unitless	n/a	n/a	8.50	8.48	8.49	0.236	n/a	0.0100	n/a	
S11V004923		13966-00-2	Potassium-40	uCi/g	n/a	<4.01E-06	1.63E-05	n/a	n/a	n/a	n/a	4.48E-06	7.08	
S11V004923		10198-40-0	Cobalt-60	uCi/g	101	<1.38E-07	<1.57E-07	n/a	n/a	n/a	n/a	1.57E-07	n/a	U
S11V004923		14234-35-6	Antimony-125	uCi/g	n/a	<3.28E-07	<4.17E-07	n/a	n/a	n/a	n/a	4.17E-07	n/a	U
S11V004923		10045-97-3	Cesium-137	uCi/g	102	<1.32E-07	<1.63E-07	n/a	n/a	n/a	n/a	1.63E-07	n/a	U
S11V004923		14683-23-9	Europium-152	uCi/g	n/a	<2.32E-07	<2.77E-07	n/a	n/a	n/a	n/a	2.77E-07	n/a	U
S11V004923		15585-10-1	Europium-154	uCi/g	n/a	<1.71E-07	<1.73E-07	n/a	n/a	n/a	n/a	1.73E-07	n/a	U
S11V004923		14391-16-3	Europium-155	uCi/g	n/a	<2.97E-07	<3.66E-07	n/a	n/a	n/a	n/a	3.66E-07	n/a	U
S11V004923		14913-50-9	Thallium-208	uCi/g	n/a	<1.61E-07	3.15E-07	n/a	n/a	n/a	n/a	1.86E-07	20.70	
S11V004923		15092-94-1	Lead-212	uCi/g	n/a	<2.00E-07	5.14E-07	n/a	n/a	n/a	n/a	2.78E-07	18.54	
S11V004923		14733-03-0	Bismuth-214	uCi/g	n/a	<3.30E-07	7.49E-07	n/a	n/a	n/a	n/a	3.61E-07	16.57	
S11V004923		15067-28-4	Lead-214	uCi/g	n/a	<2.65E-07	1.84E-06	n/a	n/a	n/a	n/a	2.57E-07	4.91	
S11V004923		13982-63-3	Radium-226	uCi/g	n/a	5.20E-06	5.74E-06	n/a	n/a	n/a	n/a	2.13E-06	11.75	B
S11V004923		14331-83-0	Actinium-228	uCi/g	n/a	<8.19E-07	8.90E-07	n/a	n/a	n/a	n/a	7.75E-07	19.57	
S11V004923		14274-82-9	Thorium-228	uCi/g	n/a	<4.54E-05	<5.14E-05	n/a	n/a	n/a	n/a	5.14E-05	n/a	U
S11V004923		15065-10-8	Thorium-234	uCi/g	n/a	<3.11E-06	<2.50E-05	n/a	n/a	n/a	n/a	2.50E-05	n/a	U
S11V004923		15046-84-1	Iodine-129	uCi/g	103	<1.61E-06	<8.85E-07	n/a	n/a	n/a	n/a	8.85E-07	n/a	U
S11V004925	A	7440-36-0	Antimony	ug/g	94.3	3.24E-04	0.265	n/a	n/a	n/a	n/a	6.52E-03	n/a	
S11V004925	A	SN-117	Tin-117	ug/g	105	<1.00E-03	<0.0326	n/a	n/a	n/a	n/a	0.0326	n/a	U
S11V004925	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	0.0228	n/a	n/a	n/a	n/a	6.52E-04	n/a	E
S11V004926	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	70.4	<77.4	<74.9	n/a	n/a	n/a	n/a	74.9	n/a	U
S11V004926	O	95-50-1	1,2-Dichlorobenzene	ug/kg	66.9	<101	<97.4	n/a	n/a	n/a	n/a	97.4	n/a	UT
S11V004926	O	121-14-2	2,4-Dinitrotoluene	ug/kg	86.9	<38.1	<36.9	n/a	n/a	n/a	n/a	36.9	n/a	U
S11V004926	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	80.9	<44.0	<42.6	n/a	n/a	n/a	n/a	42.6	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X8
Sample Depth: 155'-157'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004926	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	77.1	<49.5	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S11V004926	O	95-48-7	2-Methylphenol	ug/kg	66.7	<57.5	<55.6	n/a	n/a	n/a	n/a	55.6	n/a	UT
S11V004926	O	88-75-5	2-Nitrophenol	ug/kg	68.6	<53.7	<51.9	n/a	n/a	n/a	n/a	51.9	n/a	UT
S11V004926	O	65794-96-9	3 &4 Methylphenol	ug/kg	68.4	<51.4	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	UT
S11V004926	O	83-32-9	Acenaphthene	ug/kg	78.9	<17.6	<17.0	n/a	n/a	n/a	n/a	17.0	n/a	U
S11V004926	O	56-55-3	Benzo(a)anthracene	ug/kg	88.4	<37.8	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S11V004926	O	205-99-2	Benzo(b)fluoranthene	ug/kg	88.7	<48.9	<47.3	n/a	n/a	n/a	n/a	47.3	n/a	U
S11V004926	O	50-32-8	Benzo(a)pyrene	ug/kg	89.4	<41.2	<39.8	n/a	n/a	n/a	n/a	39.8	n/a	U
S11V004926	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	89.6	<590	<571	n/a	n/a	n/a	n/a	571	n/a	U
S11V004926	O	207-08-9	Benzo(k)fluoranthene	ug/kg	95.6	<39.1	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S11V004926	O	85-68-7	Butylbenzylphthalate	ug/kg	93.4	<50.0	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S11V004926	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	76.3	<43.2	<41.8	n/a	n/a	n/a	n/a	41.8	n/a	U
S11V004926	O	95-57-8	2-Chlorophenol	ug/kg	68.7	<66.5	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S11V004926	O	218-01-9	Chrysene	ug/kg	88.0	<81.4	<78.7	n/a	n/a	n/a	n/a	78.7	n/a	U
S11V004926	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	90.8	<51.1	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S11V004926	O	84-74-2	Di-n-butylphthalate	ug/kg	94.2	<562	<544	n/a	n/a	n/a	n/a	544	n/a	U
S11V004926	O	117-84-0	Di-n-octylphthalate	ug/kg	82.1	<47.7	<46.1	n/a	n/a	n/a	n/a	46.1	n/a	U
S11V004926	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	66.5	<58.1	<56.2	n/a	n/a	n/a	n/a	56.2	n/a	U
S11V004926	O	206-44-0	Fluoranthene	ug/kg	86.4	<35.4	<34.2	n/a	n/a	n/a	n/a	34.2	n/a	U
S11V004926	O	87-68-3	Hexachlorobutadiene	ug/kg	69.8	<69.7	<67.4	n/a	n/a	n/a	n/a	67.4	n/a	UT
S11V004926	O	67-72-1	Hexachloroethane	ug/kg	52.3	<112	<108	n/a	n/a	n/a	n/a	108	n/a	UT
S11V004926	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	89.2	<51.0	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S11V004926	O	91-20-3	Naphthalene	ug/kg	71.1	<62.6	<60.5	n/a	n/a	n/a	n/a	60.5	n/a	UT
S11V004926	O	98-95-3	Nitrobenzene	ug/kg	71.8	<64.6	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S11V004926	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<36.3	n/a	n/a	n/a	n/a	36.3	n/a	U
S11V004926	O	129-00-0	Pyrene	ug/kg	94.7	<62.9	<60.8	n/a	n/a	n/a	n/a	60.8	n/a	UT
S11V004926	O	110-86-1	Pyridine	ug/kg	63.1	<65.0	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	UT
S11V004926	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X8
Sample Depth: 155'-157'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004926	O	128-37-0	BHT	ug/kg	64.6	<236	<228	n/a	n/a	n/a	n/a	228	n/a	UT
S11V004926	O	110-80-5	2-Ethoxyethanol	ug/kg	76.0	<182	<176	n/a	n/a	n/a	n/a	176	n/a	UT
S11V004926	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U
S11V004926	O	108-94-1	Cyclohexanone	ug/kg	60.1	<559	<541	n/a	n/a	n/a	n/a	541	n/a	UT
S11V004926	O	59-89-2	N-Nitrosomorpholine	ug/kg	74.7	<191	<185	n/a	n/a	n/a	n/a	185	n/a	U
S11V004927	W	16984-48-8	Fluoride	ug/g	95.6	<1.61E-03	0.797	n/a	n/a	n/a	n/a	0.0153	n/a	
S11V004927	W	GLYCOLAT	Glycolate	ug/g	95.8	<9.37E-03	<0.0891	n/a	n/a	n/a	n/a	0.0891	n/a	U
S11V004927	W	71-50-1	Acetate	ug/g	103	<6.04E-03	0.306	n/a	n/a	n/a	n/a	0.0581	n/a	B
S11V004927	W	FORMATE	Formate	ug/g	87.4	<4.67E-03	0.958	n/a	n/a	n/a	n/a	0.0449	n/a	B
S11V004927	W	16887-00-6	Chloride	ug/g	97.0	<9.98E-03	1.15	n/a	n/a	n/a	n/a	0.0949	n/a	
S11V004927	W	14797-65-0	Nitrite	ug/g	96.8	0.0330	0.389	n/a	n/a	n/a	n/a	0.182	n/a	CB
S11V004927	W	14808-79-8	Sulfate	ug/g	98.2	<0.0187	22.4	n/a	n/a	n/a	n/a	0.178	n/a	
S11V004927	W	338-70-5	Oxalate	ug/g	95.4	<0.0231	<0.220	n/a	n/a	n/a	n/a	0.220	n/a	U
S11V004927	W	24959-67-9	Bromide	ug/g	98.1	<0.0580	<0.551	n/a	n/a	n/a	n/a	0.551	n/a	U
S11V004927	W	14797-55-8	Nitrate	ug/g	96.9	<0.0208	4.72	n/a	n/a	n/a	n/a	0.198	n/a	
S11V004927	W	14265-44-2	Phosphate	ug/g	96.6	<0.0167	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S11V004928	A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	6.40E+03	n/a	n/a	n/a	n/a	6.61	n/a	
S11V004928	A	7440-39-3	Barium	ug/g	92.4	<3.00E-03	62.0	n/a	n/a	n/a	n/a	0.661	n/a	
S11V004928	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.220	n/a	n/a	n/a	n/a	0.220	n/a	U
S11V004928	A	7440-70-2	Calcium	ug/g	82.4	<0.0500	8.15E+03	n/a	n/a	n/a	n/a	11.0	n/a	
S11V004928	A	7440-45-1	Cerium	ug/g	96.2	<0.0300	21.0	n/a	n/a	n/a	n/a	6.61	n/a	B
S11V004928	A	7440-48-4	Cobalt	ug/g	87.5	<0.0100	5.73	n/a	n/a	n/a	n/a	2.20	n/a	B
S11V004928	A	7440-47-3	Chromium	ug/g	88.2	<5.00E-03	18.1	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004928	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	10.1	n/a	n/a	n/a	n/a	1.10	n/a	B
S11V004928	A	7439-89-6	Iron	ug/g	88.2	<5.00E-03	1.54E+04	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004928	A	7440-09-7	Potassium	ug/g	77.3	<0.500	933	n/a	n/a	n/a	n/a	110	n/a	B
S11V004928	A	7439-91-0	Lanthanum	ug/g	91.6	<3.00E-03	9.29	n/a	n/a	n/a	n/a	0.661	n/a	
S11V004928	A	7439-93-2	Lithium	ug/g	97.5	<3.00E-03	8.95	n/a	n/a	n/a	n/a	0.661	n/a	

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X8
Sample Depth: 155'-157'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004928	A	7439-95-4	Magnesium	ug/g	85.5	<0.0500	4.84E+03	n/a	n/a	n/a	n/a	11.0	n/a	
S11V004928	A	7439-96-5	Manganese	ug/g	87.2	<3.00E-03	255	n/a	n/a	n/a	n/a	0.661	n/a	
S11V004928	A	7439-98-7	Molybdenum	ug/g	88.8	<0.0200	<4.41	n/a	n/a	n/a	n/a	4.41	n/a	U
S11V004928	A	7440-23-5	Sodium	ug/g	91.5	<0.100	262	n/a	n/a	n/a	n/a	18.0	n/a	
S11V004928	A	7440-02-0	Nickel	ug/g	86.7	<0.0200	15.1	n/a	n/a	n/a	n/a	4.41	n/a	B
S11V004928	A	7723-14-0	Phosphorus	ug/g	88.3	<0.0500	544	n/a	n/a	n/a	n/a	11.0	n/a	
S11V004928	A	7440-10-0	Praseodymium	ug/g	97.8	<0.0100	3.19	n/a	n/a	n/a	n/a	2.20	n/a	CB
S11V004928	A	7704-34-9	Sulfur	ug/g	88.2	<0.100	51.2	n/a	n/a	n/a	n/a	22.0	n/a	B
S11V004928	A	7440-21-3	Silicon	ug/g	74.1	<0.0300	54.0	n/a	n/a	n/a	n/a	6.61	n/a	BN
S11V004928	A	7440-24-6	Strontium	ug/g	91.8	<3.00E-03	34.7	n/a	n/a	n/a	n/a	0.661	n/a	
S11V004928	A	7440-32-6	Titanium	ug/g	90.0	<5.00E-03	961	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004928	A	7440-62-2	Vanadium	ug/g	89.7	<5.00E-03	32.8	n/a	n/a	n/a	n/a	1.10	n/a	N
S11V004928	A	7440-65-5	Yttrium	ug/g	90.0	<2.00E-03	7.49	n/a	n/a	n/a	n/a	0.441	n/a	
S11V004928	A	7440-66-6	Zinc	ug/g	86.6	<5.00E-03	34.7	n/a	n/a	n/a	n/a	1.10	n/a	
S11V004928	A	7440-67-7	Zirconium	ug/g	88.6	<5.00E-03	10.0	n/a	n/a	n/a	n/a	1.10	n/a	BN
S11V004928	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	3.49E-05	n/a	n/a	n/a	n/a	3.09E-05	n/a	
S11V004928	A	TH-232	Thorium-232	ug/g	99.2	<2.50E-04	2.77	n/a	n/a	n/a	n/a	2.20E-03	n/a	
S11V004928	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<8.82E-04	n/a	n/a	n/a	n/a	8.82E-04	n/a	U
S11V004928	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	3.29E-05	n/a	n/a	n/a	n/a	2.20E-05	n/a	
S11V004928	A	15117-96-1	Uranium-235	ug/g	92.4	<5.00E-06	3.29E-03	n/a	n/a	n/a	n/a	4.41E-05	n/a	
S11V004928	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.76E-05	n/a	n/a	n/a	n/a	1.76E-05	n/a	U
S11V004928	A	13994-20-2	Neptunium-237	ug/g	96.7	<5.00E-05	<4.41E-04	n/a	n/a	n/a	n/a	4.41E-04	n/a	U
S11V004928	A	U-238	Uranium-238	ug/g	98.0	<2.50E-04	0.492	n/a	n/a	n/a	n/a	2.20E-03	n/a	N
S11V004928	A	7440-22-4	Silver	ug/g	99.7	<4.00E-03	0.0402	n/a	n/a	n/a	n/a	0.0353	n/a	B
S11V004928	A	7440-38-2	Arsenic	ug/g	88.2	<0.0210	1.91	n/a	n/a	n/a	n/a	0.185	n/a	
S11V004928	A	7440-43-9	Cadmium	ug/g	108	<1.50E-03	0.112	n/a	n/a	n/a	n/a	0.0132	n/a	B
S11V004928	A	7439-92-1	Lead	ug/g	118	<0.0155	3.95	n/a	n/a	n/a	n/a	0.137	n/a	
S11V004928	A	7782-49-2	Selenium	ug/g	115	0.0596	<0.269	n/a	n/a	n/a	n/a	0.269	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X8
Sample Depth: 155'-157'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004928	A	7440-28-0	Thallium	ug/g	118	9.49E-03	0.120	n/a	n/a	n/a	n/a	0.0176	n/a	CB
S11V004929	S	14798-03-9	Ammonium	ug/g	99.4	<0.120	1.26	n/a	n/a	n/a	n/a	0.479	n/a	B
S11V004930	A	14133-76-7	Technetium-99	ug/g	101	<6.00E-05	<5.28E-04	n/a	n/a	n/a	n/a	5.28E-04	n/a	U
S11V004931	W	14762-75-5	Carbon-14	uCi/g	96.2	<2.07E-06	<1.49E-06	n/a	n/a	n/a	n/a	1.49E-06	n/a	U
S11V004931	W	10028-17-8	Tritium	uCi/g	99.6	<1.55E-06	1.67E-06	n/a	n/a	n/a	n/a	1.52E-06	197.018	
S11V004932	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.58E-08	<2.23E-08	n/a	n/a	n/a	n/a	2.23E-08	n/a	U
S11V004932	E	14596-10-2	Americium-241	uCi/g	100	<2.51E-08	<3.06E-08	n/a	n/a	n/a	n/a	3.06E-08	n/a	U
S11V004932	E	15510-73-3	Curium-242	uCi/g	n/a	<1.85E-08	<3.73E-08	n/a	n/a	n/a	n/a	3.73E-08	n/a	U
S11V004932	E	PU-239/240	Plutonium-239/240	uCi/g	108	<4.22E-08	<3.99E-08	n/a	n/a	n/a	n/a	3.99E-08	n/a	U
S11V004932	E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.19E-08	<3.97E-08	n/a	n/a	n/a	n/a	3.97E-08	n/a	U
S11V004933	E	SR-89/90	Strontium-89/90	uCi/g	94.4	<5.62E-07	<1.70E-07	n/a	n/a	n/a	n/a	1.70E-07	n/a	U
S11V004934	E	13981-37-8	Nickel-63	uCi/g	92.5	<3.31E-06	<3.13E-06	n/a	n/a	n/a	n/a	3.13E-06	n/a	U
S11V004935	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.22E-06	<1.78E-06	n/a	n/a	n/a	n/a	1.78E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X8 WE
Sample Depth: 155'-157'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004924		CONDUCT	Conductivity	uMHO/cm	96.2	0.865	157	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004924	WV	14133-76-7	Technetium-99	ug/g	107	<6.00E-06	<5.95E-06	n/a	n/a	n/a	n/a	5.95E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X9
Sample Depth: 188'-190'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004940		%WATERA	%WATER-APD	%	n/a	n/a	2.650	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V004940		57-12-5	Cyanide	ug/g	93.7	<0.0370	<0.479	n/a	n/a	n/a	n/a	0.479	n/a	U
S11V004940		WT%SOLID	Weight percent solids	%	n/a	n/a	97.4	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004940		7439-97-6	Mercury	ug/g	101	<1.00E-04	<1.00E-02	n/a	n/a	n/a	n/a	0.0100	n/a	U
S11V004940		PH	pH	unitless	n/a	n/a	8.25	8.24	8.24	0.121	n/a	0.0100	n/a	
S11V004941		13966-00-2	Potassium-40	uCi/g	n/a	<4.01E-06	1.65E-05	n/a	n/a	n/a	n/a	2.90E-06	4.68	
S11V004941		10198-40-0	Cobalt-60	uCi/g	101	<1.38E-07	<1.03E-07	n/a	n/a	n/a	n/a	1.03E-07	n/a	U
S11V004941		14234-35-6	Antimony-125	uCi/g	n/a	<3.28E-07	<2.65E-07	n/a	n/a	n/a	n/a	2.65E-07	n/a	U
S11V004941		10045-97-3	Cesium-137	uCi/g	102	<1.32E-07	<9.59E-08	n/a	n/a	n/a	n/a	9.59E-08	n/a	U
S11V004941		14683-23-9	Europium-152	uCi/g	n/a	<2.32E-07	<1.52E-07	n/a	n/a	n/a	n/a	1.52E-07	n/a	U
S11V004941		15585-10-1	Europium-154	uCi/g	n/a	<1.71E-07	<1.31E-07	n/a	n/a	n/a	n/a	1.31E-07	n/a	U
S11V004941		14391-16-3	Europium-155	uCi/g	n/a	<2.97E-07	<2.35E-07	n/a	n/a	n/a	n/a	2.35E-07	n/a	U
S11V004941		14913-50-9	Thallium-208	uCi/g	n/a	<1.61E-07	2.74E-07	n/a	n/a	n/a	n/a	1.28E-07	17.96	
S11V004941		15092-94-1	Lead-212	uCi/g	n/a	<2.00E-07	5.92E-07	n/a	n/a	n/a	n/a	1.67E-07	9.25	
S11V004941		14733-03-0	Bismuth-214	uCi/g	n/a	<3.30E-07	3.68E-07	n/a	n/a	n/a	n/a	2.27E-07	19.14	
S11V004941		15067-28-4	Lead-214	uCi/g	n/a	<2.65E-07	1.78E-06	n/a	n/a	n/a	n/a	1.98E-07	4.59	
S11V004941		13982-63-3	Radium-226	uCi/g	n/a	5.20E-06	6.01E-06	n/a	n/a	n/a	n/a	1.43E-06	8.52	B
S11V004941		14331-83-0	Actinium-228	uCi/g	n/a	<8.19E-07	7.46E-07	n/a	n/a	n/a	n/a	5.82E-07	16.13	
S11V004941		14274-82-9	Thorium-228	uCi/g	n/a	<4.54E-05	<4.44E-05	n/a	n/a	n/a	n/a	4.44E-05	n/a	U
S11V004941		15065-10-8	Thorium-234	uCi/g	n/a	<3.11E-06	<1.59E-05	n/a	n/a	n/a	n/a	1.59E-05	n/a	U
S11V004941		15046-84-1	Iodine-129	uCi/g	103	<1.61E-06	<1.99E-06	n/a	n/a	n/a	n/a	1.99E-06	n/a	U
S11V004943	A	7440-36-0	Antimony	ug/g	94.3	3.24E-04	0.156	n/a	n/a	n/a	n/a	6.65E-03	n/a	
S11V004943	A	SN-117	Tin-117	ug/g	105	<1.00E-03	<0.0333	n/a	n/a	n/a	n/a	0.0333	n/a	U
S11V004943	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	0.0227	n/a	n/a	n/a	n/a	6.65E-04	n/a	E
S11V004944	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	70.4	<77.4	<76.9	n/a	n/a	n/a	68.1	76.9	n/a	U
S11V004944	O	95-50-1	1,2-Dichlorobenzene	ug/kg	66.9	<101	<100	n/a	n/a	n/a	62.9	100	n/a	UT
S11V004944	O	121-14-2	2,4-Dinitrotoluene	ug/kg	86.9	<38.1	<37.9	n/a	n/a	n/a	84.5	37.9	n/a	U
S11V004944	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	80.9	<44.0	<43.7	n/a	n/a	n/a	81.1	43.7	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X9
Sample Depth: 188'-190'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004944	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	77.1	<49.5	<49.2	n/a	n/a	n/a	77.4	49.2	n/a	U
S11V004944	O	95-48-7	2-Methylphenol	ug/kg	66.7	<57.5	<57.2	n/a	n/a	n/a	66.3	57.2	n/a	UT
S11V004944	O	88-75-5	2-Nitrophenol	ug/kg	68.6	<53.7	<53.4	n/a	n/a	n/a	68.0	53.4	n/a	UT
S11V004944	O	65794-96-9	3 &4 Methylphenol	ug/kg	68.4	<51.4	<51.1	n/a	n/a	n/a	68.7	51.1	n/a	UT
S11V004944	O	83-32-9	Acenaphthene	ug/kg	78.9	<17.6	<17.5	n/a	n/a	n/a	80.4	17.5	n/a	U
S11V004944	O	56-55-3	Benzo(a)anthracene	ug/kg	88.4	<37.8	<37.6	n/a	n/a	n/a	86.4	37.6	n/a	U
S11V004944	O	205-99-2	Benzo(b)fluoranthene	ug/kg	88.7	<48.9	<48.6	n/a	n/a	n/a	88.0	48.6	n/a	U
S11V004944	O	50-32-8	Benzo(a)pyrene	ug/kg	89.4	<41.2	<41.0	n/a	n/a	n/a	87.4	41.0	n/a	U
S11V004944	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	89.6	<590	<587	n/a	n/a	n/a	88.6	587	n/a	U
S11V004944	O	207-08-9	Benzo(k)fluoranthene	ug/kg	95.6	<39.1	<38.9	n/a	n/a	n/a	92.3	38.9	n/a	U
S11V004944	O	85-68-7	Butylbenzylphthalate	ug/kg	93.4	<50.0	<49.7	n/a	n/a	n/a	91.5	49.7	n/a	U
S11V004944	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	76.3	<43.2	<42.9	n/a	n/a	n/a	73.9	42.9	n/a	U
S11V004944	O	95-57-8	2-Chlorophenol	ug/kg	68.7	<66.5	<66.1	n/a	n/a	n/a	68.7	66.1	n/a	U
S11V004944	O	218-01-9	Chrysene	ug/kg	88.0	<81.4	<80.9	n/a	n/a	n/a	86.6	80.9	n/a	U
S11V004944	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	90.8	<51.1	<50.8	n/a	n/a	n/a	89.1	50.8	n/a	U
S11V004944	O	84-74-2	Di-n-butylphthalate	ug/kg	94.2	<562	<559	n/a	n/a	n/a	90.8	559	n/a	U
S11V004944	O	117-84-0	Di-n-octylphthalate	ug/kg	82.1	<47.7	<47.4	n/a	n/a	n/a	84.6	47.4	n/a	U
S11V004944	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	66.5	<58.1	<57.8	n/a	n/a	n/a	66.6	57.8	n/a	U
S11V004944	O	206-44-0	Fluoranthene	ug/kg	86.4	<35.4	<35.2	n/a	n/a	n/a	83.8	35.2	n/a	U
S11V004944	O	87-68-3	Hexachlorobutadiene	ug/kg	69.8	<69.7	<69.3	n/a	n/a	n/a	67.9	69.3	n/a	UT
S11V004944	O	67-72-1	Hexachloroethane	ug/kg	52.3	<112	<111	n/a	n/a	n/a	47.6	111	n/a	UT
S11V004944	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	89.2	<51.0	<50.7	n/a	n/a	n/a	86.5	50.7	n/a	U
S11V004944	O	91-20-3	Naphthalene	ug/kg	71.1	<62.6	<62.2	n/a	n/a	n/a	69.4	62.2	n/a	UT
S11V004944	O	98-95-3	Nitrobenzene	ug/kg	71.8	<64.6	<64.2	n/a	n/a	n/a	70.1	64.2	n/a	U
S11V004944	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S11V004944	O	129-00-0	Pyrene	ug/kg	94.7	<62.9	<62.5	n/a	n/a	n/a	94.1	62.5	n/a	UT
S11V004944	O	110-86-1	Pyridine	ug/kg	63.1	<65.0	<64.6	n/a	n/a	n/a	61.2	64.6	n/a	UT
S11V004944	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X9
Sample Depth: 188'-190'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004944	O	128-37-0	BHT	ug/kg	64.6	<236	<234	n/a	n/a	n/a	64.1	234	n/a	UT
S11V004944	O	110-80-5	2-Ethoxyethanol	ug/kg	76.0	<182	<181	n/a	n/a	n/a	68.6	181	n/a	UT
S11V004944	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S11V004944	O	108-94-1	Cyclohexanone	ug/kg	60.1	<559	<556	n/a	n/a	n/a	57.8	556	n/a	UT
S11V004944	O	59-89-2	N-Nitrosomorpholine	ug/kg	74.7	<191	<190	n/a	n/a	n/a	72.9	190	n/a	U
S11V004945	W	16984-48-8	Fluoride	ug/g	95.6	<1.61E-03	0.397	n/a	n/a	n/a	n/a	0.0158	n/a	
S11V004945	W	GLYCOLAT	Glycolate	ug/g	95.8	<9.37E-03	<0.0920	n/a	n/a	n/a	n/a	0.0920	n/a	U
S11V004945	W	71-50-1	Acetate	ug/g	103	<6.04E-03	<0.0570	n/a	n/a	n/a	n/a	0.0570	n/a	U
S11V004945	W	FORMATE	Formate	ug/g	87.4	<4.67E-03	<0.0441	n/a	n/a	n/a	n/a	0.0441	n/a	U
S11V004945	W	16887-00-6	Chloride	ug/g	97.0	<9.98E-03	6.03	n/a	n/a	n/a	n/a	0.0980	n/a	
S11V004945	W	14797-65-0	Nitrite	ug/g	96.8	0.0330	<0.189	n/a	n/a	n/a	n/a	0.189	n/a	U
S11V004945	W	14808-79-8	Sulfate	ug/g	98.2	<0.0187	53.3	n/a	n/a	n/a	n/a	0.184	n/a	
S11V004945	W	338-70-5	Oxalate	ug/g	95.4	<0.0231	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S11V004945	W	24959-67-9	Bromide	ug/g	98.1	<0.0580	<0.570	n/a	n/a	n/a	n/a	0.570	n/a	U
S11V004945	W	14797-55-8	Nitrate	ug/g	96.9	<0.0208	5.54	n/a	n/a	n/a	n/a	0.204	n/a	
S11V004945	W	14265-44-2	Phosphate	ug/g	96.6	<0.0167	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S11V004946	A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	6.13E+03	n/a	n/a	n/a	n/a	6.50	n/a	
S11V004946	A	7440-39-3	Barium	ug/g	92.4	<3.00E-03	58.3	n/a	n/a	n/a	n/a	0.650	n/a	
S11V004946	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.217	n/a	n/a	n/a	n/a	0.217	n/a	U
S11V004946	A	7440-70-2	Calcium	ug/g	82.4	<0.0500	7.54E+03	n/a	n/a	n/a	n/a	10.8	n/a	
S11V004946	A	7440-45-1	Cerium	ug/g	96.2	<0.0300	24.0	n/a	n/a	n/a	n/a	6.50	n/a	B
S11V004946	A	7440-48-4	Cobalt	ug/g	87.5	<0.0100	5.27	n/a	n/a	n/a	n/a	2.17	n/a	B
S11V004946	A	7440-47-3	Chromium	ug/g	88.2	<5.00E-03	14.5	n/a	n/a	n/a	n/a	1.08	n/a	
S11V004946	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	9.74	n/a	n/a	n/a	n/a	1.08	n/a	B
S11V004946	A	7439-89-6	Iron	ug/g	88.2	<5.00E-03	1.65E+04	n/a	n/a	n/a	n/a	1.08	n/a	
S11V004946	A	7440-09-7	Potassium	ug/g	77.3	<0.500	935	n/a	n/a	n/a	n/a	108	n/a	B
S11V004946	A	7439-91-0	Lanthanum	ug/g	91.6	<3.00E-03	8.29	n/a	n/a	n/a	n/a	0.650	n/a	
S11V004946	A	7439-93-2	Lithium	ug/g	97.5	<3.00E-03	9.09	n/a	n/a	n/a	n/a	0.650	n/a	

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X9
Sample Depth: 188'-190'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004946	A	7439-95-4	Magnesium	ug/g	85.5	<0.0500	4.73E+03	n/a	n/a	n/a	n/a	10.8	n/a	
S11V004946	A	7439-96-5	Manganese	ug/g	87.2	<3.00E-03	247	n/a	n/a	n/a	n/a	0.650	n/a	
S11V004946	A	7439-98-7	Molybdenum	ug/g	88.8	<0.0200	<4.34	n/a	n/a	n/a	n/a	4.34	n/a	U
S11V004946	A	7440-23-5	Sodium	ug/g	91.5	<0.100	255	n/a	n/a	n/a	n/a	18.0	n/a	
S11V004946	A	7440-02-0	Nickel	ug/g	86.7	<0.0200	13.4	n/a	n/a	n/a	n/a	4.34	n/a	B
S11V004946	A	7723-14-0	Phosphorus	ug/g	88.3	<0.0500	559	n/a	n/a	n/a	n/a	10.8	n/a	
S11V004946	A	7440-10-0	Praseodymium	ug/g	97.8	<0.0100	3.92	n/a	n/a	n/a	n/a	2.17	n/a	CB
S11V004946	A	7704-34-9	Sulfur	ug/g	88.2	<0.100	72.7	n/a	n/a	n/a	n/a	21.7	n/a	B
S11V004946	A	7440-21-3	Silicon	ug/g	74.1	<0.0300	63.7	n/a	n/a	n/a	n/a	6.50	n/a	BN
S11V004946	A	7440-24-6	Strontium	ug/g	91.8	<3.00E-03	28.1	n/a	n/a	n/a	n/a	0.650	n/a	
S11V004946	A	7440-32-6	Titanium	ug/g	90.0	<5.00E-03	1.03E+03	n/a	n/a	n/a	n/a	1.08	n/a	
S11V004946	A	7440-62-2	Vanadium	ug/g	89.7	<5.00E-03	38.8	n/a	n/a	n/a	n/a	1.08	n/a	N
S11V004946	A	7440-65-5	Yttrium	ug/g	90.0	<2.00E-03	6.49	n/a	n/a	n/a	n/a	0.434	n/a	
S11V004946	A	7440-66-6	Zinc	ug/g	86.6	<5.00E-03	32.9	n/a	n/a	n/a	n/a	1.08	n/a	
S11V004946	A	7440-67-7	Zirconium	ug/g	88.6	<5.00E-03	8.47	n/a	n/a	n/a	n/a	1.08	n/a	BN
S11V004946	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.03E-05	n/a	n/a	n/a	n/a	3.03E-05	n/a	U
S11V004946	A	TH-232	Thorium-232	ug/g	99.2	<2.50E-04	2.59	n/a	n/a	n/a	n/a	2.17E-03	n/a	
S11V004946	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<8.67E-04	n/a	n/a	n/a	n/a	8.67E-04	n/a	U
S11V004946	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.17E-05	n/a	n/a	n/a	n/a	2.17E-05	n/a	U
S11V004946	A	15117-96-1	Uranium-235	ug/g	92.4	<5.00E-06	3.33E-03	n/a	n/a	n/a	n/a	4.34E-05	n/a	
S11V004946	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.73E-05	n/a	n/a	n/a	n/a	1.73E-05	n/a	U
S11V004946	A	13994-20-2	Neptunium-237	ug/g	96.7	<5.00E-05	<4.34E-04	n/a	n/a	n/a	n/a	4.34E-04	n/a	U
S11V004946	A	U-238	Uranium-238	ug/g	98.0	<2.50E-04	0.479	n/a	n/a	n/a	n/a	2.17E-03	n/a	N
S11V004946	A	7440-22-4	Silver	ug/g	99.7	<4.00E-03	0.0403	n/a	n/a	n/a	n/a	0.0347	n/a	B
S11V004946	A	7440-38-2	Arsenic	ug/g	88.2	<0.0210	2.15	n/a	n/a	n/a	n/a	0.182	n/a	
S11V004946	A	7440-43-9	Cadmium	ug/g	108	<1.50E-03	0.0663	n/a	n/a	n/a	n/a	0.0130	n/a	B
S11V004946	A	7439-92-1	Lead	ug/g	118	<0.0155	3.90	n/a	n/a	n/a	n/a	0.134	n/a	
S11V004946	A	7782-49-2	Selenium	ug/g	115	0.0596	<0.264	n/a	n/a	n/a	n/a	0.264	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X9
Sample Depth: 188'-190'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004946	A	7440-28-0	Thallium	ug/g	118	9.49E-03	0.0973	n/a	n/a	n/a	n/a	0.0173	n/a	CB
S11V004947	S	14798-03-9	Ammonium	ug/g	95.7	<0.120	<0.479	<0.478	n/a	n/a	77.0	0.479	n/a	U
S11V004948	A	14133-76-7	Technetium-99	ug/g	101	<6.00E-05	<5.36E-04	n/a	n/a	n/a	n/a	5.36E-04	n/a	U
S11V004949	W	14762-75-5	Carbon-14	uCi/g	96.2	<2.07E-06	1.31E-06	n/a	n/a	n/a	n/a	1.24E-06	139.637	
S11V004949	W	10028-17-8	Tritium	uCi/g	99.6	<1.55E-06	<1.78E-06	n/a	n/a	n/a	n/a	1.78E-06	n/a	U
S11V004950	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.06E-08	<2.47E-08	n/a	n/a	n/a	n/a	2.47E-08	n/a	U
S11V004950	E	14596-10-2	Americium-241	uCi/g	98.5	<2.72E-08	<2.68E-08	n/a	n/a	n/a	n/a	2.68E-08	n/a	U
S11V004950	E	15510-73-3	Curium-242	uCi/g	n/a	<8.73E-09	<1.80E-08	n/a	n/a	n/a	n/a	1.80E-08	n/a	U
S11V004950	E	PU-239/240	Plutonium-239/240	uCi/g	99.3	<4.38E-08	<3.68E-08	n/a	n/a	n/a	n/a	3.68E-08	n/a	U
S11V004950	E	13981-16-3	Plutonium-238	uCi/g	n/a	<4.38E-08	<3.85E-08	n/a	n/a	n/a	n/a	3.85E-08	n/a	U
S11V004951	E	SR-89/90	Strontium-89/90	uCi/g	94.4	<5.62E-07	<1.71E-07	n/a	n/a	n/a	n/a	1.71E-07	n/a	U
S11V004952	E	13981-37-8	Nickel-63	uCi/g	92.5	<3.31E-06	<4.51E-06	n/a	n/a	n/a	n/a	4.51E-06	n/a	U
S11V004953	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.22E-06	<1.51E-06	n/a	n/a	n/a	n/a	1.51E-06	n/a	U

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U - Less Than Detection Limit

C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1X9 WE
Sample Depth: 188'-190'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004942		CONDUCT	Conductivity	uMHO/cm	96.2	0.865	212	241	227	12.7	n/a	0.0100	n/a	
S11V004942	WV	14133-76-7	Technetium-99	ug/g	107	<6.00E-06	<5.89E-06	n/a	n/a	n/a	n/a	5.89E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

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

C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1Y0
Sample Depth: 221'-223'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004958		%WATERA	%WATER-APD	%	n/a	n/a	3.210	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V004958		57-12-5	Cyanide	ug/g	93.7	<0.0370	<0.480	n/a	n/a	n/a	n/a	0.480	n/a	U
S11V004958		WT%SOLID	Weight percent solids	%	n/a	n/a	96.8	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004958		7439-97-6	Mercury	ug/g	101	<1.00E-04	<9.23E-03	n/a	n/a	n/a	n/a	9.23E-03	n/a	U
S11V004958		PH	pH	unitless	n/a	n/a	8.12	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004959		13966-00-2	Potassium-40	uCi/g	n/a	<4.01E-06	1.26E-05	n/a	n/a	n/a	n/a	2.03E-06	4.13	
S11V004959		10198-40-0	Cobalt-60	uCi/g	101	<1.38E-07	<7.12E-08	n/a	n/a	n/a	n/a	7.12E-08	n/a	U
S11V004959		14234-35-6	Antimony-125	uCi/g	n/a	<3.28E-07	<1.49E-07	n/a	n/a	n/a	n/a	1.49E-07	n/a	U
S11V004959		10045-97-3	Cesium-137	uCi/g	102	<1.32E-07	<6.82E-08	n/a	n/a	n/a	n/a	6.82E-08	n/a	U
S11V004959		14683-23-9	Europium-152	uCi/g	n/a	<2.32E-07	<9.04E-08	n/a	n/a	n/a	n/a	9.04E-08	n/a	U
S11V004959		15585-10-1	Europium-154	uCi/g	n/a	<1.71E-07	<7.75E-08	n/a	n/a	n/a	n/a	7.75E-08	n/a	U
S11V004959		14391-16-3	Europium-155	uCi/g	n/a	<2.97E-07	<1.62E-07	n/a	n/a	n/a	n/a	1.62E-07	n/a	U
S11V004959		14913-50-9	Thallium-208	uCi/g	n/a	<1.61E-07	2.12E-07	n/a	n/a	n/a	n/a	8.76E-08	15.10	
S11V004959		14913-49-6	Bismuth-212	uCi/g	n/a	<1.57E-06	1.30E-06	n/a	n/a	n/a	n/a	9.13E-07	27.62	
S11V004959		15092-94-1	Lead-212	uCi/g	n/a	<2.00E-07	4.88E-07	n/a	n/a	n/a	n/a	1.17E-07	7.83	
S11V004959		14733-03-0	Bismuth-214	uCi/g	n/a	<3.30E-07	3.43E-07	n/a	n/a	n/a	n/a	1.76E-07	19.13	
S11V004959		15067-28-4	Lead-214	uCi/g	n/a	<2.65E-07	1.65E-06	n/a	n/a	n/a	n/a	1.41E-07	3.52	
S11V004959		13982-63-3	Radium-226	uCi/g	n/a	5.20E-06	5.84E-06	n/a	n/a	n/a	n/a	1.01E-06	6.34	B
S11V004959		14331-83-0	Actinium-228	uCi/g	n/a	<8.19E-07	5.60E-07	n/a	n/a	n/a	n/a	3.97E-07	15.94	
S11V004959		14274-82-9	Thorium-228	uCi/g	n/a	<4.54E-05	<2.80E-05	n/a	n/a	n/a	n/a	2.80E-05	n/a	U
S11V004959		15065-10-8	Thorium-234	uCi/g	n/a	<3.11E-06	<1.15E-05	n/a	n/a	n/a	n/a	1.15E-05	n/a	U
S11V004959		15046-84-1	Iodine-129	uCi/g	103	<1.61E-06	<8.79E-07	n/a	n/a	n/a	n/a	8.79E-07	n/a	U
S11V004961	A	7440-36-0	Antimony	ug/g	94.3	3.24E-04	0.108	n/a	n/a	n/a	n/a	6.19E-03	n/a	
S11V004961	A	SN-117	Tin-117	ug/g	105	<1.00E-03	<0.0310	n/a	n/a	n/a	n/a	0.0310	n/a	U
S11V004961	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.88E-03	n/a	n/a	n/a	n/a	6.19E-04	n/a	E
S11V004962	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	70.4	<77.4	<74.8	n/a	n/a	n/a	n/a	74.8	n/a	U
S11V004962	O	95-50-1	1,2-Dichlorobenzene	ug/kg	66.9	<101	<97.3	n/a	n/a	n/a	n/a	97.3	n/a	UT
S11V004962	O	121-14-2	2,4-Dinitrotoluene	ug/kg	86.9	<38.1	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U

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B - Blank Contamination
U - Less Than Detection Limit

C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1Y0
Sample Depth: 221'-223'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004962	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	80.9	<44.0	<42.5	n/a	n/a	n/a	n/a	42.5	n/a	U
S11V004962	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	77.1	<49.5	<47.8	n/a	n/a	n/a	n/a	47.8	n/a	U
S11V004962	O	95-48-7	2-Methylphenol	ug/kg	66.7	<57.5	<55.5	n/a	n/a	n/a	n/a	55.5	n/a	UT
S11V004962	O	88-75-5	2-Nitrophenol	ug/kg	68.6	<53.7	<51.9	n/a	n/a	n/a	n/a	51.9	n/a	UT
S11V004962	O	65794-96-9	3 &4 Methylphenol	ug/kg	68.4	<51.4	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	UT
S11V004962	O	83-32-9	Acenaphthene	ug/kg	78.9	<17.6	<17.0	n/a	n/a	n/a	n/a	17.0	n/a	U
S11V004962	O	56-55-3	Benzo(a)anthracene	ug/kg	88.4	<37.8	<36.5	n/a	n/a	n/a	n/a	36.5	n/a	U
S11V004962	O	205-99-2	Benzo(b)fluoranthene	ug/kg	88.7	<48.9	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S11V004962	O	50-32-8	Benzo(a)pyrene	ug/kg	89.4	<41.2	<39.8	n/a	n/a	n/a	n/a	39.8	n/a	U
S11V004962	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	89.6	<590	<570	n/a	n/a	n/a	n/a	570	n/a	U
S11V004962	O	207-08-9	Benzo(k)fluoranthene	ug/kg	95.6	<39.1	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S11V004962	O	85-68-7	Butylbenzylphthalate	ug/kg	93.4	<50.0	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U
S11V004962	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	76.3	<43.2	<41.7	n/a	n/a	n/a	n/a	41.7	n/a	U
S11V004962	O	95-57-8	2-Chlorophenol	ug/kg	68.7	<66.5	<64.2	n/a	n/a	n/a	n/a	64.2	n/a	U
S11V004962	O	218-01-9	Chrysene	ug/kg	88.0	<81.4	<78.6	n/a	n/a	n/a	n/a	78.6	n/a	U
S11V004962	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	90.8	<51.1	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S11V004962	O	84-74-2	Di-n-butylphthalate	ug/kg	94.2	<562	<543	n/a	n/a	n/a	n/a	543	n/a	U
S11V004962	O	117-84-0	Di-n-octylphthalate	ug/kg	82.1	<47.7	<46.1	n/a	n/a	n/a	n/a	46.1	n/a	U
S11V004962	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	66.5	<58.1	<56.1	n/a	n/a	n/a	n/a	56.1	n/a	U
S11V004962	O	206-44-0	Fluoranthene	ug/kg	86.4	<35.4	<34.2	n/a	n/a	n/a	n/a	34.2	n/a	U
S11V004962	O	87-68-3	Hexachlorobutadiene	ug/kg	69.8	<69.7	<67.3	n/a	n/a	n/a	n/a	67.3	n/a	UT
S11V004962	O	67-72-1	Hexachloroethane	ug/kg	52.3	<112	<108	n/a	n/a	n/a	n/a	108	n/a	UT
S11V004962	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	89.2	<51.0	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S11V004962	O	91-20-3	Naphthalene	ug/kg	71.1	<62.6	<60.5	n/a	n/a	n/a	n/a	60.5	n/a	UT
S11V004962	O	98-95-3	Nitrobenzene	ug/kg	71.8	<64.6	<62.4	n/a	n/a	n/a	n/a	62.4	n/a	U
S11V004962	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<36.2	n/a	n/a	n/a	n/a	36.2	n/a	U
S11V004962	O	129-00-0	Pyrene	ug/kg	94.7	<62.9	<60.8	n/a	n/a	n/a	n/a	60.8	n/a	UT
S11V004962	O	110-86-1	Pyridine	ug/kg	63.1	<65.0	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	UT

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1Y0
Sample Depth: 221'-223'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004962	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S11V004962	O	128-37-0	BHT	ug/kg	64.6	<236	<228	n/a	n/a	n/a	n/a	228	n/a	UT
S11V004962	O	110-80-5	2-Ethoxyethanol	ug/kg	76.0	<182	<176	n/a	n/a	n/a	n/a	176	n/a	UT
S11V004962	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U
S11V004962	O	108-94-1	Cyclohexanone	ug/kg	60.1	<559	<540	n/a	n/a	n/a	n/a	540	n/a	UT
S11V004962	O	59-89-2	N-Nitrosomorpholine	ug/kg	74.7	<191	<185	n/a	n/a	n/a	n/a	185	n/a	U
S11V004963	W	16984-48-8	Fluoride	ug/g	95.6	<1.61E-03	0.641	n/a	n/a	n/a	n/a	0.0155	n/a	
S11V004963	W	GLYCOLAT	Glycolate	ug/g	95.8	<9.37E-03	<0.0899	n/a	n/a	n/a	n/a	0.0899	n/a	U
S11V004963	W	71-50-1	Acetate	ug/g	103	<6.04E-03	<0.0571	n/a	n/a	n/a	n/a	0.0571	n/a	U
S11V004963	W	FORMATE	Formate	ug/g	87.4	<4.67E-03	0.316	n/a	n/a	n/a	n/a	0.0441	n/a	B
S11V004963	W	16887-00-6	Chloride	ug/g	97.0	<9.98E-03	5.92	n/a	n/a	n/a	n/a	0.0958	n/a	
S11V004963	W	14797-65-0	Nitrite	ug/g	96.8	0.0330	0.357	n/a	n/a	n/a	n/a	0.184	n/a	CB
S11V004963	W	14808-79-8	Sulfate	ug/g	98.2	<0.0187	79.3	n/a	n/a	n/a	n/a	0.179	n/a	
S11V004963	W	338-70-5	Oxalate	ug/g	95.4	<0.0231	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S11V004963	W	24959-67-9	Bromide	ug/g	98.1	<0.0580	<0.557	n/a	n/a	n/a	n/a	0.557	n/a	U
S11V004963	W	14797-55-8	Nitrate	ug/g	96.9	<0.0208	7.61	n/a	n/a	n/a	n/a	0.200	n/a	
S11V004963	W	14265-44-2	Phosphate	ug/g	96.6	<0.0167	<0.160	n/a	n/a	n/a	n/a	0.160	n/a	U
S11V004964	A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	5.94E+03	n/a	n/a	n/a	n/a	6.50	n/a	
S11V004964	A	7440-39-3	Barium	ug/g	92.4	<3.00E-03	79.9	n/a	n/a	n/a	n/a	0.650	n/a	
S11V004964	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.217	n/a	n/a	n/a	n/a	0.217	n/a	U
S11V004964	A	7440-70-2	Calcium	ug/g	82.4	<0.0500	6.62E+03	n/a	n/a	n/a	n/a	10.8	n/a	
S11V004964	A	7440-45-1	Cerium	ug/g	96.2	<0.0300	22.7	n/a	n/a	n/a	n/a	6.50	n/a	B
S11V004964	A	7440-48-4	Cobalt	ug/g	87.5	<0.0100	6.00	n/a	n/a	n/a	n/a	2.17	n/a	B
S11V004964	A	7440-47-3	Chromium	ug/g	88.2	<5.00E-03	17.6	n/a	n/a	n/a	n/a	1.08	n/a	
S11V004964	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	11.0	n/a	n/a	n/a	n/a	1.08	n/a	
S11V004964	A	7439-89-6	Iron	ug/g	88.2	<5.00E-03	1.72E+04	n/a	n/a	n/a	n/a	1.08	n/a	
S11V004964	A	7440-09-7	Potassium	ug/g	77.3	<0.500	871	n/a	n/a	n/a	n/a	108	n/a	B
S11V004964	A	7439-91-0	Lanthanum	ug/g	91.6	<3.00E-03	9.89	n/a	n/a	n/a	n/a	0.650	n/a	

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1Y0
Sample Depth: 221'-223'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004964	A	7439-93-2	Lithium	ug/g	97.5	<3.00E-03	7.13	n/a	n/a	n/a	n/a	0.650	n/a	
S11V004964	A	7439-95-4	Magnesium	ug/g	85.5	<0.0500	4.60E+03	n/a	n/a	n/a	n/a	10.8	n/a	
S11V004964	A	7439-96-5	Manganese	ug/g	87.2	<3.00E-03	256	n/a	n/a	n/a	n/a	0.650	n/a	
S11V004964	A	7439-98-7	Molybdenum	ug/g	88.8	<0.0200	<4.34	n/a	n/a	n/a	n/a	4.34	n/a	U
S11V004964	A	7440-23-5	Sodium	ug/g	91.5	<0.100	352	n/a	n/a	n/a	n/a	17.9	n/a	
S11V004964	A	7440-02-0	Nickel	ug/g	86.7	<0.0200	17.8	n/a	n/a	n/a	n/a	4.34	n/a	B
S11V004964	A	7723-14-0	Phosphorus	ug/g	88.3	<0.0500	691	n/a	n/a	n/a	n/a	10.8	n/a	
S11V004964	A	7440-10-0	Praseodymium	ug/g	97.8	<0.0100	4.16	n/a	n/a	n/a	n/a	2.17	n/a	CB
S11V004964	A	7704-34-9	Sulfur	ug/g	88.2	<0.100	88.2	n/a	n/a	n/a	n/a	21.7	n/a	B
S11V004964	A	7440-21-3	Silicon	ug/g	74.1	<0.0300	65.0	n/a	n/a	n/a	n/a	6.50	n/a	BN
S11V004964	A	7440-24-6	Strontium	ug/g	91.8	<3.00E-03	29.7	n/a	n/a	n/a	n/a	0.650	n/a	
S11V004964	A	7440-32-6	Titanium	ug/g	90.0	<5.00E-03	1.13E+03	n/a	n/a	n/a	n/a	1.08	n/a	
S11V004964	A	7440-62-2	Vanadium	ug/g	89.7	<5.00E-03	42.4	n/a	n/a	n/a	n/a	1.08	n/a	N
S11V004964	A	7440-65-5	Yttrium	ug/g	90.0	<2.00E-03	8.54	n/a	n/a	n/a	n/a	0.434	n/a	
S11V004964	A	7440-66-6	Zinc	ug/g	86.6	<5.00E-03	30.9	n/a	n/a	n/a	n/a	1.08	n/a	
S11V004964	A	7440-67-7	Zirconium	ug/g	88.6	<5.00E-03	1.95	n/a	n/a	n/a	n/a	1.08	n/a	BN
S11V004964	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.04E-05	n/a	n/a	n/a	n/a	3.04E-05	n/a	U
S11V004964	A	TH-232	Thorium-232	ug/g	99.2	<2.50E-04	2.58	n/a	n/a	n/a	n/a	2.17E-03	n/a	
S11V004964	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<8.67E-04	n/a	n/a	n/a	n/a	8.67E-04	n/a	U
S11V004964	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	4.04E-05	n/a	n/a	n/a	n/a	2.17E-05	n/a	
S11V004964	A	15117-96-1	Uranium-235	ug/g	92.4	<5.00E-06	3.43E-03	n/a	n/a	n/a	n/a	4.34E-05	n/a	
S11V004964	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.73E-05	n/a	n/a	n/a	n/a	1.73E-05	n/a	U
S11V004964	A	13994-20-2	Neptunium-237	ug/g	96.7	<5.00E-05	<4.34E-04	n/a	n/a	n/a	n/a	4.34E-04	n/a	U
S11V004964	A	U-238	Uranium-238	ug/g	98.0	<2.50E-04	0.508	n/a	n/a	n/a	n/a	2.17E-03	n/a	N
S11V004964	A	7440-22-4	Silver	ug/g	99.7	<4.00E-03	<0.0347	n/a	n/a	n/a	n/a	0.0347	n/a	U
S11V004964	A	7440-38-2	Arsenic	ug/g	88.2	<0.0210	1.72	n/a	n/a	n/a	n/a	0.182	n/a	
S11V004964	A	7440-43-9	Cadmium	ug/g	108	<1.50E-03	0.0691	n/a	n/a	n/a	n/a	0.0130	n/a	B
S11V004964	A	7439-92-1	Lead	ug/g	118	<0.0155	3.19	n/a	n/a	n/a	n/a	0.134	n/a	

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B - Blank Contamination
U - Less Than Detection Limit

C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1Y0
Sample Depth: 221'-223'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004964	A	7782-49-2	Selenium	ug/g	115	0.0596	<0.264	n/a	n/a	n/a	n/a	0.264	n/a	U
S11V004964	A	7440-28-0	Thallium	ug/g	118	9.49E-03	0.0990	n/a	n/a	n/a	n/a	0.0173	n/a	CB
S11V004965	S	14798-03-9	Ammonium	ug/g	95.7	<0.120	1.10	n/a	n/a	n/a	n/a	0.479	n/a	B
S11V004966	A	14133-76-7	Technetium-99	ug/g	101	<6.00E-05	<5.23E-04	n/a	n/a	n/a	n/a	5.23E-04	n/a	U
S11V004967	W	14762-75-5	Carbon-14	uCi/g	96.2	<2.07E-06	<1.24E-06	n/a	n/a	n/a	n/a	1.24E-06	n/a	U
S11V004967	W	10028-17-8	Tritium	uCi/g	99.6	<1.55E-06	<2.66E-06	n/a	n/a	n/a	n/a	2.66E-06	n/a	U
S11V004968	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.58E-08	<2.81E-08	n/a	n/a	n/a	n/a	2.81E-08	n/a	U
S11V004968	E	14596-10-2	Americium-241	uCi/g	100	<2.51E-08	<2.59E-08	n/a	n/a	n/a	n/a	2.59E-08	n/a	U
S11V004968	E	15510-73-3	Curium-242	uCi/g	n/a	<1.85E-08	<5.28E-08	n/a	n/a	n/a	n/a	5.28E-08	n/a	U
S11V004968	E	PU-239/240	Plutonium-239/240	uCi/g	108	<4.22E-08	<4.72E-08	n/a	n/a	n/a	n/a	4.72E-08	n/a	U
S11V004968	E	13981-16-3	Plutonium-238	uCi/g	n/a	<3.19E-08	<3.76E-08	n/a	n/a	n/a	n/a	3.76E-08	n/a	U
S11V004969	E	SR-89/90	Strontium-89/90	uCi/g	94.4	<5.62E-07	<5.37E-07	n/a	n/a	n/a	n/a	5.37E-07	n/a	U
S11V004970	E	13981-37-8	Nickel-63	uCi/g	92.5	<3.31E-06	<3.60E-06	n/a	n/a	n/a	n/a	3.60E-06	n/a	U
S11V004971	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.22E-06	<1.66E-06	n/a	n/a	n/a	n/a	1.66E-06	n/a	U

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C Farm 2011-C8102
Data Summary Report

Sample Group: 20110763
Core Number: C8102
Customer Sample ID: B2D1Y0 WE
Sample Depth: 221'-223'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V004960		CONDUCT	Conductivity	uMHO/cm	96.2	0.865	244	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V004960	WV	14133-76-7	Technetium-99	ug/g	107	<6.00E-06	<5.93E-06	n/a	n/a	n/a	n/a	5.93E-06	n/a	U

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111028
Core Number: C8104
Customer Sample ID: B2B1N8
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005009	O	12674-11-2	Aroclor 1016	ug/L	n/a	<5.40	<5.40	n/a	n/a	n/a	n/a	5.40	n/a	U
S11V005009	O	11104-28-2	Aroclor 1221	ug/L	n/a	<1.01	<1.01	n/a	n/a	n/a	n/a	1.01	n/a	U
S11V005009	O	11141-16-5	Aroclor 1232	ug/L	n/a	<1.17	<1.17	n/a	n/a	n/a	n/a	1.17	n/a	U
S11V005009	O	53469-21-9	Aroclor 1242	ug/L	n/a	<1.80	<1.80	n/a	n/a	n/a	n/a	1.80	n/a	U
S11V005009	O	12672-29-6	Aroclor 1248	ug/L	n/a	<1.01	<1.01	n/a	n/a	n/a	n/a	1.01	n/a	U
S11V005009	O	11097-69-1	Aroclor 1254	ug/L	80.0	<0.371	<0.371	n/a	n/a	n/a	81.2	0.371	n/a	U
S11V005009	O	11096-82-5	Aroclor 1260	ug/L	n/a	<4.09	<4.09	n/a	n/a	n/a	n/a	4.09	n/a	U
S11V005009	O	120-82-1	1,2,4-Trichlorobenzene	ug/L	35.0	<25.5	<25.5	n/a	n/a	n/a	27.3	25.5	n/a	U
S11V005009	O	95-50-1	1,2-Dichlorobenzene	ug/L	24.1	<71.1	<71.1	n/a	n/a	n/a	20.3	71.1	n/a	UT
S11V005009	O	121-14-2	2,4-Dinitrotoluene	ug/L	72.6	<13.5	<13.5	n/a	n/a	n/a	73.4	13.5	n/a	U
S11V005009	O	95-95-4	2,4,5-Trichlorophenol	ug/L	72.3	<16.3	<16.3	n/a	n/a	n/a	74.5	16.3	n/a	U
S11V005009	O	88-06-2	2,4,6-Trichlorophenol	ug/L	71.3	<17.2	<17.2	n/a	n/a	n/a	73.7	17.2	n/a	U
S11V005009	O	95-48-7	2-Methylphenol	ug/L	86.4	<20.6	<20.6	n/a	n/a	n/a	88.2	20.6	n/a	U
S11V005009	O	88-75-5	2-Nitrophenol	ug/L	82.4	<22.4	<22.4	n/a	n/a	n/a	84.2	22.4	n/a	U
S11V005009	O	65794-96-9	3 &4 Methylphenol	ug/L	87.5	<20.6	<20.6	n/a	n/a	n/a	88.9	20.6	n/a	U
S11V005009	O	83-32-9	Acenaphthene	ug/L	65.8	<25.2	<25.2	n/a	n/a	n/a	63.1	25.2	n/a	U
S11V005009	O	56-55-3	Benzo(a)anthracene	ug/L	80.0	<17.2	22.7	n/a	n/a	n/a	75.1	17.2	n/a	J
S11V005009	O	205-99-2	Benzo(b)fluoranthene	ug/L	86.1	<16.5	19.7	n/a	n/a	n/a	81.1	16.5	n/a	J
S11V005009	O	50-32-8	Benzo(a)pyrene	ug/L	82.9	<15.5	16.2	n/a	n/a	n/a	79.1	15.5	n/a	J
S11V005009	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/L	85.0	<51.2	<51.2	n/a	n/a	n/a	80.3	51.2	n/a	U
S11V005009	O	207-08-9	Benzo(k)fluoranthene	ug/L	82.2	<15.8	20.8	n/a	n/a	n/a	76.4	15.8	n/a	J
S11V005009	O	85-68-7	Butylbenzylphthalate	ug/L	77.5	<14.7	23.5	n/a	n/a	n/a	71.9	14.7	n/a	J
S11V005009	O	59-50-7	4-Chloro-3-methylphenol	ug/L	86.2	<17.4	<17.4	n/a	n/a	n/a	89.1	17.4	n/a	U
S11V005009	O	95-57-8	2-Chlorophenol	ug/L	84.0	<23.9	<23.9	n/a	n/a	n/a	87.0	23.9	n/a	U
S11V005009	O	218-01-9	Chrysene	ug/L	82.5	<16.5	24.2	n/a	n/a	n/a	77.5	16.5	n/a	J
S11V005009	O	53-70-3	Dibenz[a,h]anthracene	ug/L	84.5	<15.5	17.1	n/a	n/a	n/a	81.3	15.5	n/a	J
S11V005009	O	84-74-2	Di-n-butylphthalate	ug/L	88.2	<14.9	18.6	n/a	n/a	n/a	84.0	14.9	n/a	J
S11V005009	O	117-84-0	Di-n-octylphthalate	ug/L	80.5	<17.0	<17.0	n/a	n/a	n/a	75.7	17.0	n/a	U

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111028
Core Number: C8104
Customer Sample ID: B2B1N8
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005009	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/L	82.6	<23.9	<23.9	n/a	n/a	n/a	83.7	23.9	n/a	U
S11V005009	O	206-44-0	Fluoranthene	ug/L	85.7	<15.3	21.6	n/a	n/a	n/a	80.7	15.3	n/a	J
S11V005009	O	87-68-3	Hexachlorobutadiene	ug/L	21.1	<14.0	<14.0	n/a	n/a	n/a	17.0	14.0	n/a	UT
S11V005009	O	67-72-1	Hexachloroethane	ug/L	10.3	<9.51	<9.51	n/a	n/a	n/a	10.0	9.51	n/a	UT
S11V005009	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/L	84.2	<14.9	17.0	n/a	n/a	n/a	79.6	14.9	n/a	J
S11V005009	O	91-20-3	Naphthalene	ug/L	49.3	<31.4	<31.4	n/a	n/a	n/a	39.4	31.4	n/a	UT
S11V005009	O	98-95-3	Nitrobenzene	ug/L	79.9	<23.5	<23.5	n/a	n/a	n/a	80.0	23.5	n/a	U
S11V005009	O	87-86-5	Pentachlorophenol	ug/L	n/a	<8.17	<8.17	n/a	n/a	n/a	n/a	8.17	n/a	U
S11V005009	O	129-00-0	Pyrene	ug/L	80.0	<15.8	22.0	n/a	n/a	n/a	77.8	15.8	n/a	J
S11V005009	O	110-86-1	Pyridine	ug/L	76.2	<31.2	<31.2	n/a	n/a	n/a	79.2	31.2	n/a	U
S11V005009	O	126-73-8	Tributyl phosphate	ug/L	n/a	<6.37	<6.37	n/a	n/a	n/a	n/a	6.37	n/a	U
S11V005009	O	128-37-0	BHT	ug/L	57.6	<97.1	<97.1	n/a	n/a	n/a	58.7	97.1	n/a	UT
S11V005009	O	110-80-5	2-Ethoxyethanol	ug/L	80.3	<73.4	<73.4	n/a	n/a	n/a	83.0	73.4	n/a	U
S11V005009	O	1319-77-3	Total Methylphenols	ug/L	n/a	<41.0	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S11V005009	O	108-94-1	Cyclohexanone	ug/L	76.8	<43.6	<43.6	n/a	n/a	n/a	77.2	43.6	n/a	U
S11V005009	O	59-89-2	N-Nitrosomorpholine	ug/L	82.9	<144	<144	n/a	n/a	n/a	83.0	144	n/a	U
S11V005010		7439-97-6	Mercury	ug/mL	101	<1.10E-05	<4.40E-05	n/a	n/a	n/a	99.0	4.40E-05	n/a	U
S11V005010		7440-22-4	Silver	ug/mL	99.0	<5.00E-03	<5.00E-03	n/a	n/a	n/a	n/a	5.00E-03	n/a	U
S11V005010		7429-90-5	Aluminum	ug/mL	101	<0.0300	<0.0300	n/a	n/a	n/a	n/a	0.0300	n/a	U
S11V005010		7440-38-2	Arsenic	ug/mL	98.8	<0.0500	<0.0500	n/a	n/a	n/a	n/a	0.0500	n/a	U
S11V005010		7440-42-8	Boron	ug/mL	100	<0.0300	<0.0300	n/a	n/a	n/a	n/a	0.0300	n/a	U
S11V005010		7440-39-3	Barium	ug/mL	100	<3.00E-03	<3.00E-03	n/a	n/a	n/a	n/a	3.00E-03	n/a	U
S11V005010		7440-41-7	Beryllium	ug/mL	98.7	<1.00E-03	<1.00E-03	n/a	n/a	n/a	n/a	1.00E-03	n/a	U
S11V005010		7440-70-2	Calcium	ug/mL	102	<0.0500	<0.0500	n/a	n/a	n/a	n/a	0.0500	n/a	U
S11V005010		7440-43-9	Cadmium	ug/mL	102	<5.00E-03	<5.00E-03	n/a	n/a	n/a	n/a	5.00E-03	n/a	U
S11V005010		7440-48-4	Cobalt	ug/mL	102	<0.0100	<0.0100	n/a	n/a	n/a	n/a	0.0100	n/a	U
S11V005010		7440-47-3	Chromium	ug/mL	102	<5.00E-03	<5.00E-03	n/a	n/a	n/a	n/a	5.00E-03	n/a	U
S11V005010		7440-50-8	Copper	ug/mL	99.6	<5.00E-03	<5.00E-03	n/a	n/a	n/a	n/a	5.00E-03	n/a	U

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111028
Core Number: C8104
Customer Sample ID: B2B1N8
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005010		7439-89-6	Iron	ug/mL	101	<5.00E-03	0.0206	n/a	n/a	n/a	n/a	5.00E-03	n/a	B
S11V005010		7440-09-7	Potassium	ug/mL	97.0	<0.500	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S11V005010		7439-93-2	Lithium	ug/mL	102	<3.00E-03	<3.00E-03	n/a	n/a	n/a	n/a	3.00E-03	n/a	U
S11V005010		7439-95-4	Magnesium	ug/mL	101	<0.0500	<0.0500	n/a	n/a	n/a	n/a	0.0500	n/a	U
S11V005010		7439-96-5	Manganese	ug/mL	101	<3.00E-03	<3.00E-03	n/a	n/a	n/a	n/a	3.00E-03	n/a	U
S11V005010		7439-98-7	Molybdenum	ug/mL	100	<0.0200	<0.0200	n/a	n/a	n/a	n/a	0.0200	n/a	U
S11V005010		7440-23-5	Sodium	ug/mL	102	<0.100	0.118	n/a	n/a	n/a	n/a	0.100	n/a	B
S11V005010		7440-02-0	Nickel	ug/mL	101	<0.0200	<0.0200	n/a	n/a	n/a	n/a	0.0200	n/a	U
S11V005010		7723-14-0	Phosphorus	ug/mL	102	<0.0500	<0.0500	n/a	n/a	n/a	n/a	0.0500	n/a	U
S11V005010		7439-92-1	Lead	ug/mL	104	<0.0500	<0.0500	n/a	n/a	n/a	n/a	0.0500	n/a	U
S11V005010		7440-05-3	Palladium	ug/mL	97.8	<0.100	0.113	n/a	n/a	n/a	n/a	0.100	n/a	B
S11V005010		7440-36-0	Antimony	ug/mL	99.3	<0.0500	<0.0500	n/a	n/a	n/a	n/a	0.0500	n/a	U
S11V005010		7782-49-2	Selenium	ug/mL	103	<0.100	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S11V005010		7440-21-3	Silicon	ug/mL	94.4	<0.0300	0.0396	n/a	n/a	n/a	n/a	0.0300	n/a	B
S11V005010		7440-24-6	Strontium	ug/mL	100	<3.00E-03	<3.00E-03	n/a	n/a	n/a	n/a	3.00E-03	n/a	U
S11V005010		7440-28-0	Thallium	ug/mL	105	<0.100	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S11V005010		7440-61-1	Uranium	ug/mL	102	<0.100	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S11V005010		7440-62-2	Vanadium	ug/mL	102	<5.00E-03	<5.00E-03	n/a	n/a	n/a	n/a	5.00E-03	n/a	U
S11V005010		7440-66-6	Zinc	ug/mL	99.6	<5.00E-03	<5.00E-03	n/a	n/a	n/a	n/a	5.00E-03	n/a	U
S11V005010		14269-63-7	Thorium-230	ug/mL	n/a	<7.00E-09	<1.40E-08	n/a	n/a	n/a	n/a	1.40E-08	n/a	U
S11V005010		TH-232	Thorium-232	ug/mL	99.6	<5.00E-07	<1.00E-06	n/a	n/a	n/a	n/a	1.00E-06	n/a	U
S11V005010		13968-55-3	Uranium-233	ug/mL	96.5	<2.00E-07	<4.00E-07	n/a	n/a	n/a	n/a	4.00E-07	n/a	U
S11V005010		13966-29-5	Uranium-234	ug/mL	n/a	<5.00E-09	<1.00E-08	n/a	n/a	n/a	n/a	1.00E-08	n/a	U
S11V005010		15117-96-1	Uranium-235	ug/mL	98.8	<1.00E-08	<2.00E-08	n/a	n/a	n/a	n/a	2.00E-08	n/a	U
S11V005010		13982-70-2	Uranium-236	ug/mL	n/a	<4.00E-09	<8.00E-09	n/a	n/a	n/a	n/a	8.00E-09	n/a	U
S11V005010		13994-20-2	Neptunium-237	ug/mL	103	<1.00E-07	<2.00E-07	n/a	n/a	n/a	n/a	2.00E-07	n/a	U
S11V005010		U-238	Uranium-238	ug/mL	100	<5.00E-07	<1.00E-06	n/a	n/a	n/a	n/a	1.00E-06	n/a	U
S11V005010		SN-117	Tin-117	ug/mL	106	<1.00E-05	<2.00E-05	n/a	n/a	n/a	n/a	2.00E-05	n/a	U

NA = Not Analyzed, ND = Not Detected

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

C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111028
Core Number: C8104
Customer Sample ID: B2B1N8
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005010		15832-50-5	Tin-126	ug/mL	n/a	<2.00E-07	<4.00E-07	n/a	n/a	n/a	n/a	4.00E-07	n/a	U
S11V005010		14133-76-7	Technetium-99	ug/mL	98.1	<6.00E-07	<1.20E-06	n/a	n/a	n/a	n/a	1.20E-06	n/a	U
S11V005011		14762-75-5	Carbon-14	uCi/mL	93.1	<2.49E-07	<1.56E-07	1.46E-07	n/a	n/a	91.5	1.56E-07	n/a	U
S11V005011		15046-84-1	Iodine-129	uCi/mL	104	<1.50E-07	<1.64E-07	<1.07E-07	n/a	n/a	n/a	1.64E-07	n/a	U
S11V005011		10028-17-8	Tritium	uCi/mL	101	<3.13E-07	<2.80E-07	<2.79E-07	n/a	n/a	102	2.80E-07	n/a	U
S11V005012		CM-243/244	Curium-243/244	uCi/mL	n/a	<1.18E-10	<1.13E-10	<1.18E-10	n/a	n/a	n/a	1.13E-10	n/a	U
S11V005012		14596-10-2	Americium-241	uCi/mL	103	<1.25E-10	2.37E-10	2.82E-10	2.60E-10	17.5	n/a	1.38E-10	49.0	
S11V005012		15510-73-3	Curium-242	uCi/mL	n/a	4.55E-11	<7.21E-11	<4.14E-11	n/a	n/a	n/a	7.21E-11	n/a	U
S11V005012		10198-40-0	Cobalt-60	uCi/mL	104	<3.01E-07	<3.15E-07	<2.78E-07	n/a	n/a	n/a	3.15E-07	n/a	U
S11V005012		14234-35-6	Antimony-125	uCi/mL	n/a	<4.30E-07	<6.82E-07	<7.55E-07	n/a	n/a	n/a	6.82E-07	n/a	U
S11V005012		10045-97-3	Cesium-137	uCi/mL	114	<2.50E-07	<3.70E-07	<2.46E-07	n/a	n/a	n/a	3.70E-07	n/a	U
S11V005012		14683-23-9	Europium-152	uCi/mL	n/a	<4.66E-07	<4.33E-07	<3.97E-07	n/a	n/a	n/a	4.33E-07	n/a	U
S11V005012		15585-10-1	Europium-154	uCi/mL	n/a	<2.28E-07	<2.92E-07	<3.06E-07	n/a	n/a	n/a	2.92E-07	n/a	U
S11V005012		14391-16-3	Europium-155	uCi/mL	n/a	<4.55E-07	<5.84E-07	<5.41E-07	n/a	n/a	n/a	5.84E-07	n/a	U
S11V005012		15067-28-4	Lead-214	uCi/mL	n/a	3.41E-07	3.63E-07	<5.25E-07	n/a	n/a	n/a	5.15E-07	44.11	BU
S11V005012		14274-82-9	Thorium-228	uCi/mL	n/a	<1.05E-04	<8.93E-05	<9.46E-05	n/a	n/a	n/a	8.93E-05	n/a	U
S11V005012		15065-10-8	Thorium-234	uCi/mL	n/a	<4.13E-06	<4.34E-06	<4.31E-06	n/a	n/a	n/a	4.34E-06	n/a	U
S11V005012		13981-37-8	Nickel-63	uCi/mL	101	<4.64E-08	<4.67E-08	<6.25E-08	n/a	n/a	n/a	4.67E-08	n/a	U
S11V005012		PU-239/240	Plutonium-239/240	uCi/mL	81.4	<3.52E-10	2.28E-10	5.86E-10	4.07E-10	88.1	n/a	1.85E-10	69.3	
S11V005012		13981-16-3	Plutonium-238	uCi/mL	n/a	<3.57E-10	<1.85E-10	<1.81E-10	n/a	n/a	n/a	1.85E-10	n/a	U
S11V005012		15758-45-9	Selenium-79	uCi/mL	n/a	<2.87E-08	<2.23E-08	<2.06E-08	n/a	n/a	n/a	2.23E-08	n/a	U
S11V005012		SR-89/90	Strontium-89/90	uCi/mL	99.8	1.73E-08	<4.74E-08	<5.46E-08	n/a	n/a	n/a	4.74E-08	n/a	U
S11V005013		16984-48-8	Fluoride	ug/mL	96.2	<1.61E-03	0.0775	0.0768	0.0771	0.882	102	1.61E-03	n/a	
S11V005013		GLYCOLAT	Glycolate	ug/mL	96.0	<9.37E-03	<9.37E-03	<9.37E-03	n/a	n/a	99.4	9.37E-03	n/a	U
S11V005013		71-50-1	Acetate	ug/mL	100	<6.04E-03	<6.04E-03	<6.04E-03	n/a	n/a	104	6.04E-03	n/a	U
S11V005013		FORMATE	Formate	ug/mL	97.1	<4.67E-03	<4.67E-03	<4.67E-03	n/a	n/a	101	4.67E-03	n/a	U
S11V005013		16887-00-6	Chloride	ug/mL	93.7	<9.98E-03	<9.98E-03	<9.98E-03	n/a	n/a	101	9.98E-03	n/a	U
S11V005013		14797-65-0	Nitrite	ug/mL	96.5	<0.0192	<0.0192	<0.0192	n/a	n/a	101	0.0192	n/a	U

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111028
Core Number: C8104
Customer Sample ID: B2B1N8
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005013		14808-79-8	Sulfate	ug/mL	98.9	<0.0187	<0.0187	<0.0187	n/a	n/a	102	0.0187	n/a	U
S11V005013		338-70-5	Oxalate	ug/mL	96.1	<0.0231	<0.0231	<0.0231	n/a	n/a	99.3	0.0231	n/a	U
S11V005013		24959-67-9	Bromide	ug/mL	99.9	<0.0580	<0.0580	<0.0580	n/a	n/a	104	0.0580	n/a	U
S11V005013		14797-55-8	Nitrate	ug/mL	96.7	<0.0208	0.0458	0.0441	0.0449	3.63	100	0.0208	n/a	B
S11V005013		14265-44-2	Phosphate	ug/mL	97.9	<0.0167	<0.0167	<0.0167	n/a	n/a	101	0.0167	n/a	U
S11V005013		PH	pH	unitless	n/a	n/a	4.17	4.07	4.12	2.43	n/a	0.0100	n/a	
S11V005014		57-12-5	Cyanide	ug/mL	95.6	<4.00E-03	<0.0200	<0.0200	n/a	n/a	94.5	0.0200	n/a	U
S11V005015	S	14798-03-9	Ammonium	ug/mL	98.5	0.204	<0.120	<0.120	n/a	n/a	100	0.120	n/a	

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FPF1
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005450		13966-00-2	Potassium-40	uCi/g	n/a	<3.41E-06	1.35E-05	n/a	n/a	n/a	n/a	2.23E-06	4.62	
S11V005450		10198-40-0	Cobalt-60	uCi/g	94.4	<9.28E-08	<8.32E-08	n/a	n/a	n/a	n/a	8.32E-08	n/a	U
S11V005450		14234-35-6	Antimony-125	uCi/g	n/a	<3.18E-07	<2.81E-07	n/a	n/a	n/a	n/a	2.81E-07	n/a	U
S11V005450		13967-70-9	Cesium-134	uCi/g	n/a	<6.52E-07	<4.99E-07	n/a	n/a	n/a	n/a	4.99E-07	n/a	U
S11V005450		10045-97-3	Cesium-137	uCi/g	93.8	<1.88E-07	2.77E-05	n/a	n/a	n/a	n/a	8.35E-08	0.29	
S11V005450		14683-23-9	Europium-152	uCi/g	n/a	<3.25E-07	<2.01E-07	n/a	n/a	n/a	n/a	2.01E-07	n/a	U
S11V005450		15585-10-1	Europium-154	uCi/g	n/a	<2.93E-07	<2.26E-07	n/a	n/a	n/a	n/a	2.26E-07	n/a	U
S11V005450		14391-16-3	Europium-155	uCi/g	n/a	<3.97E-07	<2.13E-07	n/a	n/a	n/a	n/a	2.13E-07	n/a	U
S11V005450		14913-50-9	Thallium-208	uCi/g	n/a	<1.20E-07	3.59E-07	n/a	n/a	n/a	n/a	1.05E-07	11.04	
S11V005450		15092-94-1	Lead-212	uCi/g	n/a	<1.56E-07	1.50E-06	n/a	n/a	n/a	n/a	1.34E-07	2.97	
S11V005450		14733-03-0	Bismuth-214	uCi/g	n/a	<2.59E-07	8.32E-07	n/a	n/a	n/a	n/a	2.03E-07	9.43	
S11V005450		15067-28-4	Lead-214	uCi/g	n/a	<2.30E-07	2.13E-06	n/a	n/a	n/a	n/a	1.73E-07	3.30	
S11V005450		14331-83-0	Actinium-228	uCi/g	n/a	1.01E-06	4.77E-07	n/a	n/a	n/a	n/a	3.22E-07	18.10	B
S11V005450		14274-82-9	Thorium-228	uCi/g	n/a	<4.21E-05	<3.87E-05	n/a	n/a	n/a	n/a	3.87E-05	n/a	U
S11V005450		15065-10-8	Thorium-234	uCi/g	n/a	<7.44E-06	<2.44E-05	n/a	n/a	n/a	n/a	2.44E-05	n/a	U
S11V005450		14596-10-2	Americium-241	uCi/g	n/a	<9.12E-07	1.76E-07	n/a	n/a	n/a	n/a	1.37E-07	23.72	
S11V005450		15046-84-1	Iodine-129	uCi/g	98.9	<9.77E-07	<1.04E-06	n/a	n/a	n/a	n/a	1.04E-06	n/a	U
S11V005452	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<24.1	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
S11V005452	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<3.98	<4.14	n/a	n/a	n/a	n/a	4.14	n/a	U
S11V005452	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<6.76	<7.02	n/a	n/a	n/a	n/a	7.02	n/a	U
S11V005452	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<16.1	<16.7	n/a	n/a	n/a	n/a	16.7	n/a	U
S11V005452	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<9.11	<9.46	n/a	n/a	n/a	n/a	9.46	n/a	U
S11V005452	O	11097-69-1	Aroclor 1254	ug/kg	80.6	<5.84	8.59	n/a	n/a	n/a	n/a	6.06	n/a	J
S11V005452	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<9.43	<9.79	n/a	n/a	n/a	n/a	9.79	n/a	U
S11V005453	A	7440-36-0	Antimony	ug/g	103	<2.00E-04	0.342	0.319	0.330	6.92	99.2	7.45E-03	n/a	
S11V005453	A	SN-117	Tin-117	ug/g	104	<1.00E-03	<0.0373	<0.0367	n/a	n/a	106	0.0373	n/a	U
S11V005453	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.28E-03	2.90E-03	2.59E-03	24.1	n/a	7.45E-04	n/a	E
S11V005455	W	GLYCOLAT	Glycolate	ug/g	98.9	<9.37E-03	<0.0931	<0.0927	n/a	n/a	97.6	0.0931	n/a	U

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B - Blank Contamination
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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FPF1
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005455	W	71-50-1	Acetate	ug/g	101	<6.04E-03	<0.0600	0.578	n/a	n/a	99.9	0.0600	n/a	U
S11V005455	W	FORMATE	Formate	ug/g	100	0.0124	0.326	0.644	0.485	65.7	98.9	0.0464	n/a	CB
S11V005455	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.230	0.639	n/a	n/a	97.5	0.230	n/a	U
S11V005456	A	7429-90-5	Aluminum	ug/g	89.5	<0.0300	7.77E+03	7.19E+03	7.48E+03	7.64	2.82E+03	6.50	n/a	
S11V005456	A	7440-42-8	Boron	ug/g	85.7	<0.0300	<6.50	<6.57	n/a	n/a	110	6.50	n/a	U
S11V005456	A	7440-39-3	Barium	ug/g	89.8	<3.00E-03	81.1	73.4	77.2	9.89	127	0.650	n/a	N
S11V005456	A	7440-41-7	Beryllium	ug/g	94.9	<1.00E-03	<0.217	<0.219	n/a	n/a	104	0.217	n/a	U
S11V005456	A	7440-70-2	Calcium	ug/g	82.3	0.798	1.01E+04	9.26E+03	9.70E+03	9.03	2.06E+03	10.8	n/a	
S11V005456	A	7440-45-1	Cerium	ug/g	91.5	<0.0300	24.8	24.1	24.4	2.88	111	6.50	n/a	B
S11V005456	A	7440-48-4	Cobalt	ug/g	85.7	<0.0100	11.4	6.85	9.12	49.8	96.2	2.17	n/a	B
S11V005456	A	7440-47-3	Chromium	ug/g	85.2	<5.00E-03	8.99	8.56	8.77	4.92	107	1.08	n/a	B
S11V005456	A	7440-50-8	Copper	ug/g	95.4	<5.00E-03	14.2	11.5	12.8	21.0	102	1.08	n/a	
S11V005456	A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	2.36E+04	2.22E+04	2.29E+04	5.98	3.31E+03	1.08	n/a	
S11V005456	A	7440-09-7	Potassium	ug/g	79.1	<0.500	929	908	919	2.27	483	108	n/a	B
S11V005456	A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	9.84	9.54	9.69	3.07	105	0.650	n/a	
S11V005456	A	7439-93-2	Lithium	ug/g	97.9	<3.00E-03	7.91	7.57	7.74	4.34	108	0.650	n/a	
S11V005456	A	7439-95-4	Magnesium	ug/g	86.4	<0.0500	5.27E+03	5.11E+03	5.19E+03	2.94	1.44E+03	10.8	n/a	
S11V005456	A	7439-96-5	Manganese	ug/g	84.3	<3.00E-03	371	354	363	4.78	138	0.650	n/a	
S11V005456	A	7439-98-7	Molybdenum	ug/g	87.2	<0.0200	<4.33	<4.38	n/a	n/a	101	4.33	n/a	U
S11V005456	A	7440-23-5	Sodium	ug/g	98.8	<0.100	364	298	331	19.9	257	21.7	n/a	
S11V005456	A	7440-02-0	Nickel	ug/g	84.8	<0.0200	9.84	8.15	8.99	18.8	101	4.33	n/a	B
S11V005456	A	7723-14-0	Phosphorus	ug/g	87.8	<0.0500	856	800	828	6.81	289	10.8	n/a	
S11V005456	A	7704-34-9	Sulfur	ug/g	87.6	<0.100	84.7	n/a	n/a	n/a	86.3	21.7	n/a	B
S11V005456	A	7440-21-3	Silicon	ug/g	91.9	<0.0300	78.4	88.2	83.3	11.9	156	6.50	n/a	N
S11V005456	A	7440-24-6	Strontium	ug/g	89.9	<3.00E-03	37.2	30.6	33.9	19.5	133	0.650	n/a	N
S11V005456	A	7440-32-6	Titanium	ug/g	86.1	<5.00E-03	1.57E+03	1.55E+03	1.56E+03	1.19	395	1.08	n/a	
S11V005456	A	7440-62-2	Vanadium	ug/g	88.2	<5.00E-03	56.4	55.0	55.7	2.51	117	1.08	n/a	
S11V005456	A	7440-65-5	Yttrium	ug/g	84.7	<2.00E-03	10.2	9.66	9.94	5.56	99.4	0.433	n/a	

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FPF1
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005456	A	7440-66-6	Zinc	ug/g	87.6	8.03E-03	45.6	44.6	45.1	2.05	109	1.08	n/a	
S11V005456	A	7440-67-7	Zirconium	ug/g	85.9	<5.00E-03	11.7	10.3	11.0	12.6	-6.04	1.08	n/a	N
S11V005456	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.03E-05	<3.06E-05	n/a	n/a	n/a	3.03E-05	n/a	U
S11V005456	A	TH-232	Thorium-232	ug/g	95.8	<2.50E-04	2.36	2.59	2.48	9.28	121	2.17E-03	n/a	
S11V005456	A	13968-55-3	Uranium-233	ug/g	105	<1.00E-04	<8.66E-04	<8.76E-04	n/a	n/a	96.2	8.66E-04	n/a	U
S11V005456	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	5.29E-05	3.32E-05	4.30E-05	45.8	n/a	2.17E-05	n/a	
S11V005456	A	15117-96-1	Uranium-235	ug/g	94.4	<5.00E-06	3.07E-03	3.42E-03	3.24E-03	10.9	101	4.33E-05	n/a	
S11V005456	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.73E-05	<1.75E-05	n/a	n/a	n/a	1.73E-05	n/a	U
S11V005456	A	13994-20-2	Neptunium-237	ug/g	97.1	<5.00E-05	<4.33E-04	<4.38E-04	n/a	n/a	103	4.33E-04	n/a	U
S11V005456	A	U-238	Uranium-238	ug/g	94.9	<2.50E-04	0.416	0.477	0.446	13.7	104	2.17E-03	n/a	
S11V005456	A	7440-22-4	Silver	ug/g	107	1.92E-03	0.0461	0.0385	0.0423	17.9	106	8.66E-03	n/a	CB
S11V005456	A	7440-38-2	Arsenic	ug/g	75.4	<0.0210	5.22	4.12	4.67	23.7	73.5	0.182	n/a	N
S11V005456	A	7440-43-9	Cadmium	ug/g	107	<3.00E-03	0.0743	0.0777	0.0760	4.47	110	0.0260	n/a	B
S11V005456	A	7439-92-1	Lead	ug/g	100	<7.50E-03	5.64	5.68	5.66	0.775	107	0.0650	n/a	
S11V005456	A	7782-49-2	Selenium	ug/g	98.9	<0.0675	<0.585	<0.591	n/a	n/a	107	0.585	n/a	U
S11V005456	A	7440-28-0	Thallium	ug/g	110	8.31E-03	0.137	0.136	0.137	0.475	107	0.0173	n/a	B
S11V005458	A	14133-76-7	Technetium-99	ug/g	109	<6.00E-05	<5.41E-04	<5.44E-04	n/a	n/a	97.4	5.41E-04	n/a	U
S11V005459	W	14762-75-5	Carbon-14	uCi/g	89.5	<6.13E-07	<1.01E-06	<6.10E-07	n/a	n/a	n/a	1.01E-06	n/a	U
S11V005459	W	10028-17-8	Tritium	uCi/g	101	<1.91E-06	<1.35E-06	<1.80E-06	n/a	n/a	101	1.35E-06	n/a	U
S11V005460	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.06E-08	<2.70E-08	n/a	n/a	n/a	n/a	2.70E-08	n/a	U
S11V005460	E	14596-10-2	Americium-241	uCi/g	98.5	<2.72E-08	5.21E-08	n/a	n/a	n/a	n/a	2.77E-08	29.32	
S11V005460	E	15510-73-3	Curium-242	uCi/g	n/a	<8.73E-09	<1.73E-08	n/a	n/a	n/a	n/a	1.73E-08	n/a	U
S11V005460	E	PU-239/240	Plutonium-239/240	uCi/g	99.3	<4.38E-08	3.13E-07	n/a	n/a	n/a	n/a	3.61E-08	12.29	
S11V005460	E	13981-16-3	Plutonium-238	uCi/g	n/a	<4.38E-08	<2.20E-08	n/a	n/a	n/a	n/a	2.20E-08	n/a	U
S11V005461	E	SR-89/90	Strontium-89/90	uCi/g	102	2.94E-07	8.12E-06	n/a	n/a	n/a	n/a	1.40E-07	7.308	B
S11V005462	E	13981-37-8	Nickel-63	uCi/g	100	<7.87E-06	<5.18E-06	n/a	n/a	n/a	n/a	5.18E-06	n/a	U
S11V005463	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.33E-06	2.70E-06	n/a	n/a	n/a	n/a	1.41E-06	1508.691	E
S11V005672		%WATERA	%WATER-APD	%	n/a	n/a	4.000	n/a	n/a	n/a	n/a	0.01000	n/a	

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FPF1
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005672		WT%SOLID	Weight percent solids	%	n/a	n/a	96.0	n/a	n/a	n/a	n/a	0.0100	n/a	

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FPF2
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005466		13966-00-2	Potassium-40	uCi/g	n/a	<3.41E-06	1.28E-05	n/a	n/a	n/a	n/a	2.81E-06	5.56	
S11V005466		10198-40-0	Cobalt-60	uCi/g	94.4	<9.28E-08	<1.00E-07	n/a	n/a	n/a	n/a	1.00E-07	n/a	U
S11V005466		14234-35-6	Antimony-125	uCi/g	n/a	<3.18E-07	<3.27E-07	n/a	n/a	n/a	n/a	3.27E-07	n/a	U
S11V005466		13967-70-9	Cesium-134	uCi/g	n/a	<6.52E-07	<6.03E-07	n/a	n/a	n/a	n/a	6.03E-07	n/a	U
S11V005466		10045-97-3	Cesium-137	uCi/g	93.8	<1.88E-07	2.27E-05	n/a	n/a	n/a	n/a	1.21E-07	0.44	
S11V005466		14683-23-9	Europium-152	uCi/g	n/a	<3.25E-07	<2.96E-07	n/a	n/a	n/a	n/a	2.96E-07	n/a	U
S11V005466		15585-10-1	Europium-154	uCi/g	n/a	<2.93E-07	<3.05E-07	n/a	n/a	n/a	n/a	3.05E-07	n/a	U
S11V005466		14391-16-3	Europium-155	uCi/g	n/a	<3.97E-07	<2.54E-07	n/a	n/a	n/a	n/a	2.54E-07	n/a	U
S11V005466		14913-50-9	Thallium-208	uCi/g	n/a	<1.20E-07	1.09E-06	n/a	n/a	n/a	n/a	9.87E-08	4.14	
S11V005466		15092-94-1	Lead-212	uCi/g	n/a	<1.56E-07	7.94E-07	n/a	n/a	n/a	n/a	1.73E-07	6.53	
S11V005466		14733-03-0	Bismuth-214	uCi/g	n/a	<2.59E-07	9.31E-07	n/a	n/a	n/a	n/a	2.15E-07	6.38	
S11V005466		15067-28-4	Lead-214	uCi/g	n/a	<2.30E-07	2.22E-06	n/a	n/a	n/a	n/a	2.09E-07	3.88	
S11V005466		14331-83-0	Actinium-228	uCi/g	n/a	1.01E-06	6.95E-07	n/a	n/a	n/a	n/a	3.85E-07	14.79	B
S11V005466		14274-82-9	Thorium-228	uCi/g	n/a	<4.21E-05	<4.83E-05	n/a	n/a	n/a	n/a	4.83E-05	n/a	U
S11V005466		15065-10-8	Thorium-234	uCi/g	n/a	<7.44E-06	<2.41E-05	n/a	n/a	n/a	n/a	2.41E-05	n/a	U
S11V005466		15046-84-1	Iodine-129	uCi/g	99.1	<1.01E-06	<8.90E-07	n/a	n/a	n/a	n/a	8.90E-07	n/a	U
S11V005468	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<24.1	<24.6	n/a	n/a	n/a	n/a	24.6	n/a	U
S11V005468	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<3.98	<4.06	n/a	n/a	n/a	n/a	4.06	n/a	U
S11V005468	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<6.76	<6.89	n/a	n/a	n/a	n/a	6.89	n/a	U
S11V005468	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<16.1	<16.4	n/a	n/a	n/a	n/a	16.4	n/a	U
S11V005468	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<9.11	<9.28	n/a	n/a	n/a	n/a	9.28	n/a	U
S11V005468	O	11097-69-1	Aroclor 1254	ug/kg	80.6	<5.84	8.33	n/a	n/a	n/a	n/a	5.95	n/a	J
S11V005468	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<9.43	<9.61	n/a	n/a	n/a	n/a	9.61	n/a	U
S11V005469	A	7440-36-0	Antimony	ug/g	103	<2.00E-04	0.330	n/a	n/a	n/a	n/a	6.75E-03	n/a	
S11V005469	A	SN-117	Tin-117	ug/g	104	<1.00E-03	0.0340	n/a	n/a	n/a	n/a	0.0337	n/a	
S11V005469	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.43E-03	n/a	n/a	n/a	n/a	6.75E-04	n/a	E
S11V005471	W	GLYCOLAT	Glycolate	ug/g	98.9	<9.37E-03	<0.0925	n/a	n/a	n/a	n/a	0.0925	n/a	U
S11V005471	W	71-50-1	Acetate	ug/g	101	<6.04E-03	<0.0596	n/a	n/a	n/a	n/a	0.0596	n/a	U

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FPF2
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005471	W	FORMATE	Formate	ug/g	100	0.0124	0.220	n/a	n/a	n/a	n/a	0.0461	n/a	CB
S11V005471	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.228	n/a	n/a	n/a	n/a	0.228	n/a	U
S11V005472	A	7429-90-5	Aluminum	ug/g	89.5	<0.0300	7.63E+03	n/a	n/a	n/a	n/a	6.62	n/a	
S11V005472	A	7440-42-8	Boron	ug/g	85.7	<0.0300	<6.62	n/a	n/a	n/a	n/a	6.62	n/a	U
S11V005472	A	7440-39-3	Barium	ug/g	89.8	<3.00E-03	79.2	n/a	n/a	n/a	n/a	0.662	n/a	N
S11V005472	A	7440-41-7	Beryllium	ug/g	94.9	<1.00E-03	<0.221	n/a	n/a	n/a	n/a	0.221	n/a	U
S11V005472	A	7440-70-2	Calcium	ug/g	82.3	0.798	1.01E+04	n/a	n/a	n/a	n/a	11.0	n/a	
S11V005472	A	7440-45-1	Cerium	ug/g	91.5	<0.0300	20.9	n/a	n/a	n/a	n/a	6.62	n/a	B
S11V005472	A	7440-48-4	Cobalt	ug/g	85.7	<0.0100	7.70	n/a	n/a	n/a	n/a	2.21	n/a	B
S11V005472	A	7440-47-3	Chromium	ug/g	85.2	<5.00E-03	8.50	n/a	n/a	n/a	n/a	1.10	n/a	B
S11V005472	A	7440-50-8	Copper	ug/g	95.4	<5.00E-03	12.6	n/a	n/a	n/a	n/a	1.10	n/a	
S11V005472	A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	2.34E+04	n/a	n/a	n/a	n/a	1.10	n/a	
S11V005472	A	7440-09-7	Potassium	ug/g	79.1	<0.500	973	n/a	n/a	n/a	n/a	110	n/a	B
S11V005472	A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	10.1	n/a	n/a	n/a	n/a	0.662	n/a	
S11V005472	A	7439-93-2	Lithium	ug/g	97.9	<3.00E-03	8.17	n/a	n/a	n/a	n/a	0.662	n/a	
S11V005472	A	7439-95-4	Magnesium	ug/g	86.4	<0.0500	5.44E+03	n/a	n/a	n/a	n/a	11.0	n/a	
S11V005472	A	7439-96-5	Manganese	ug/g	84.3	<3.00E-03	365	n/a	n/a	n/a	n/a	0.662	n/a	
S11V005472	A	7439-98-7	Molybdenum	ug/g	87.2	<0.0200	<4.41	n/a	n/a	n/a	n/a	4.41	n/a	U
S11V005472	A	7440-23-5	Sodium	ug/g	98.8	<0.100	344	n/a	n/a	n/a	n/a	22.1	n/a	
S11V005472	A	7440-02-0	Nickel	ug/g	84.8	<0.0200	6.59	n/a	n/a	n/a	n/a	4.41	n/a	B
S11V005472	A	7723-14-0	Phosphorus	ug/g	87.8	<0.0500	873	n/a	n/a	n/a	n/a	11.0	n/a	
S11V005472	A	7704-34-9	Sulfur	ug/g	87.6	<0.100	87.1	n/a	n/a	n/a	n/a	22.1	n/a	B
S11V005472	A	7440-21-3	Silicon	ug/g	91.9	<0.0300	78.7	n/a	n/a	n/a	n/a	6.62	n/a	N
S11V005472	A	7440-24-6	Strontium	ug/g	89.9	<3.00E-03	35.2	n/a	n/a	n/a	n/a	0.662	n/a	N
S11V005472	A	7440-32-6	Titanium	ug/g	86.1	<5.00E-03	1.56E+03	n/a	n/a	n/a	n/a	1.10	n/a	
S11V005472	A	7440-62-2	Vanadium	ug/g	88.2	<5.00E-03	56.7	n/a	n/a	n/a	n/a	1.10	n/a	
S11V005472	A	7440-65-5	Yttrium	ug/g	84.7	<2.00E-03	10.2	n/a	n/a	n/a	n/a	0.441	n/a	
S11V005472	A	7440-66-6	Zinc	ug/g	87.6	8.03E-03	44.6	n/a	n/a	n/a	n/a	1.10	n/a	

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FPF2
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005472	A	7440-67-7	Zirconium	ug/g	85.9	<5.00E-03	7.38	n/a	n/a	n/a	n/a	1.10	n/a	BN
S11V005472	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.09E-05	n/a	n/a	n/a	n/a	3.09E-05	n/a	U
S11V005472	A	TH-232	Thorium-232	ug/g	95.8	<2.50E-04	3.03	n/a	n/a	n/a	n/a	2.21E-03	n/a	
S11V005472	A	13968-55-3	Uranium-233	ug/g	105	<1.00E-04	<8.83E-04	n/a	n/a	n/a	n/a	8.83E-04	n/a	U
S11V005472	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	2.61E-05	n/a	n/a	n/a	n/a	2.21E-05	n/a	
S11V005472	A	15117-96-1	Uranium-235	ug/g	94.4	<5.00E-06	5.23E-03	n/a	n/a	n/a	n/a	4.41E-05	n/a	
S11V005472	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.77E-05	n/a	n/a	n/a	n/a	1.77E-05	n/a	U
S11V005472	A	13994-20-2	Neptunium-237	ug/g	97.1	<5.00E-05	<4.41E-04	n/a	n/a	n/a	n/a	4.41E-04	n/a	U
S11V005472	A	U-238	Uranium-238	ug/g	94.9	<2.50E-04	0.727	n/a	n/a	n/a	n/a	2.21E-03	n/a	
S11V005472	A	7440-22-4	Silver	ug/g	107	1.92E-03	0.0415	n/a	n/a	n/a	n/a	8.83E-03	n/a	CB
S11V005472	A	7440-38-2	Arsenic	ug/g	75.4	<0.0210	5.09	n/a	n/a	n/a	n/a	0.185	n/a	N
S11V005472	A	7440-43-9	Cadmium	ug/g	107	<3.00E-03	0.0834	n/a	n/a	n/a	n/a	0.0265	n/a	B
S11V005472	A	7439-92-1	Lead	ug/g	100	<7.50E-03	5.62	n/a	n/a	n/a	n/a	0.0662	n/a	
S11V005472	A	7782-49-2	Selenium	ug/g	98.9	<0.0675	<0.596	n/a	n/a	n/a	n/a	0.596	n/a	U
S11V005472	A	7440-28-0	Thallium	ug/g	110	8.31E-03	0.132	n/a	n/a	n/a	n/a	0.0177	n/a	B
S11V005474	A	14133-76-7	Technetium-99	ug/g	109	<6.00E-05	<5.31E-04	n/a	n/a	n/a	n/a	5.31E-04	n/a	U
S11V005475	W	14762-75-5	Carbon-14	uCi/g	89.5	<6.13E-07	<1.10E-06	n/a	n/a	n/a	n/a	1.10E-06	n/a	U
S11V005475	W	10028-17-8	Tritium	uCi/g	101	<1.91E-06	<1.98E-06	n/a	n/a	n/a	n/a	1.98E-06	n/a	U
S11V005476	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.06E-08	<2.22E-08	n/a	n/a	n/a	n/a	2.22E-08	n/a	U
S11V005476	E	14596-10-2	Americium-241	uCi/g	98.5	<2.72E-08	5.33E-08	n/a	n/a	n/a	n/a	3.22E-08	31.18	
S11V005476	E	15510-73-3	Curium-242	uCi/g	n/a	<8.73E-09	<1.89E-08	n/a	n/a	n/a	n/a	1.89E-08	n/a	U
S11V005476	E	PU-239/240	Plutonium-239/240	uCi/g	99.3	<4.38E-08	1.98E-07	n/a	n/a	n/a	n/a	4.97E-08	17.72	
S11V005476	E	13981-16-3	Plutonium-238	uCi/g	n/a	<4.38E-08	<4.34E-08	n/a	n/a	n/a	n/a	4.34E-08	n/a	U
S11V005477	E	SR-89/90	Strontium-89/90	uCi/g	102	2.94E-07	1.18E-05	n/a	n/a	n/a	n/a	1.42E-07	5.979	B
S11V005478	E	13981-37-8	Nickel-63	uCi/g	100	<7.87E-06	<5.60E-06	n/a	n/a	n/a	n/a	5.60E-06	n/a	U
S11V005479	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.33E-06	<2.57E-06	n/a	n/a	n/a	n/a	2.57E-06	n/a	U
S11V005673		%WATERA	%WATER-APD	%	n/a	n/a	4.000	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005673		WT%SOLID	Weight percent solids	%	n/a	n/a	96.0	n/a	n/a	n/a	n/a	0.0100	n/a	

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB27
Sample Depth: 5.7'-7.7'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005056		13966-00-2	Potassium-40	uCi/g	n/a	<3.41E-06	1.05E-05	1.05E-05	1.05E-05	0.391	n/a	3.11E-06	7.33	
S11V005056		10198-40-0	Cobalt-60	uCi/g	94.4	<9.28E-08	<8.61E-08	<1.11E-07	n/a	n/a	n/a	8.61E-08	n/a	U
S11V005056		14234-35-6	Antimony-125	uCi/g	n/a	<3.18E-07	<2.91E-07	<2.85E-07	n/a	n/a	n/a	2.91E-07	n/a	U
S11V005056		13967-70-9	Cesium-134	uCi/g	n/a	<6.52E-07	<6.06E-07	<5.89E-07	n/a	n/a	n/a	6.06E-07	n/a	U
S11V005056		10045-97-3	Cesium-137	uCi/g	93.8	<1.88E-07	<1.04E-07	<1.06E-07	n/a	n/a	n/a	1.04E-07	n/a	U
S11V005056		14683-23-9	Europium-152	uCi/g	n/a	<3.25E-07	<3.02E-07	<2.85E-07	n/a	n/a	n/a	3.02E-07	n/a	U
S11V005056		15585-10-1	Europium-154	uCi/g	n/a	<2.93E-07	<2.96E-07	<3.02E-07	n/a	n/a	n/a	2.96E-07	n/a	U
S11V005056		14391-16-3	Europium-155	uCi/g	n/a	<3.97E-07	<2.53E-07	<2.50E-07	n/a	n/a	n/a	2.53E-07	n/a	U
S11V005056		14913-50-9	Thallium-208	uCi/g	n/a	<1.20E-07	1.07E-06	1.09E-06	1.08E-06	1.95	n/a	9.45E-08	3.91	
S11V005056		15092-94-1	Lead-212	uCi/g	n/a	<1.56E-07	7.08E-07	7.19E-07	7.13E-07	1.49	n/a	1.76E-07	7.37	
S11V005056		14733-03-0	Bismuth-214	uCi/g	n/a	<2.59E-07	5.74E-07	9.70E-07	7.72E-07	51.2	n/a	2.60E-07	16.28	
S11V005056		15067-28-4	Lead-214	uCi/g	n/a	<2.30E-07	1.99E-06	2.48E-06	2.23E-06	22.0	n/a	2.01E-07	4.29	
S11V005056		14331-83-0	Actinium-228	uCi/g	n/a	1.01E-06	7.03E-07	4.69E-07	5.86E-07	40.0	n/a	4.27E-07	16.20	B
S11V005056		14274-82-9	Thorium-228	uCi/g	n/a	<4.21E-05	<4.67E-05	<4.77E-05	n/a	n/a	n/a	4.67E-05	n/a	U
S11V005056		15065-10-8	Thorium-234	uCi/g	n/a	<7.44E-06	<4.16E-05	<4.19E-05	n/a	n/a	n/a	4.16E-05	n/a	U
S11V005056		15046-84-1	Iodine-129	uCi/g	99.1	<1.01E-06	<1.01E-06	<1.04E-06	n/a	n/a	n/a	1.01E-06	n/a	U
S11V005674		%WATERA	%WATER-APD	%	n/a	n/a	4.000	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005674		WT%SOLID	Weight percent solids	%	n/a	n/a	96.0	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005058	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<24.1	<24.7	n/a	n/a	n/a	n/a	24.7	n/a	U
S11V005058	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<3.98	<4.08	n/a	n/a	n/a	n/a	4.08	n/a	U
S11V005058	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<6.76	<6.92	n/a	n/a	n/a	n/a	6.92	n/a	U
S11V005058	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<16.1	<16.5	n/a	n/a	n/a	n/a	16.5	n/a	U
S11V005058	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<9.11	<9.33	n/a	n/a	n/a	n/a	9.33	n/a	U
S11V005058	O	11097-69-1	Aroclor 1254	ug/kg	80.6	<5.84	<5.98	n/a	n/a	n/a	n/a	5.98	n/a	U
S11V005058	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<9.43	<9.67	n/a	n/a	n/a	n/a	9.67	n/a	U
S11V005059	A	7440-36-0	Antimony	ug/g	103	<2.00E-04	0.123	n/a	n/a	n/a	n/a	6.15E-03	n/a	
S11V005059	A	SN-117	Tin-117	ug/g	104	<1.00E-03	<0.0307	n/a	n/a	n/a	n/a	0.0307	n/a	U
S11V005059	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.14E-03	n/a	n/a	n/a	n/a	6.15E-04	n/a	E

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

C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB27
Sample Depth: 5.7'-7.7'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005061	W	GLYCOLAT	Glycolate	ug/g	98.9	<9.37E-03	<0.0910	n/a	n/a	n/a	n/a	0.0910	n/a	U
S11V005061	W	71-50-1	Acetate	ug/g	101	<6.04E-03	<0.0586	n/a	n/a	n/a	n/a	0.0586	n/a	U
S11V005061	W	FORMATE	Formate	ug/g	100	0.0124	0.293	n/a	n/a	n/a	n/a	0.0453	n/a	CB
S11V005061	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S11V005062	A	7429-90-5	Aluminum	ug/g	89.5	<0.0300	7.10E+03	n/a	n/a	n/a	n/a	6.80	n/a	
S11V005062	A	7440-42-8	Boron	ug/g	85.7	<0.0300	<6.80	n/a	n/a	n/a	n/a	6.80	n/a	U
S11V005062	A	7440-39-3	Barium	ug/g	89.8	<3.00E-03	70.2	n/a	n/a	n/a	n/a	0.680	n/a	N
S11V005062	A	7440-41-7	Beryllium	ug/g	94.9	<1.00E-03	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S11V005062	A	7440-70-2	Calcium	ug/g	82.3	0.798	8.31E+03	n/a	n/a	n/a	n/a	11.3	n/a	
S11V005062	A	7440-45-1	Cerium	ug/g	91.5	<0.0300	25.3	n/a	n/a	n/a	n/a	6.80	n/a	B
S11V005062	A	7440-48-4	Cobalt	ug/g	85.7	<0.0100	6.91	n/a	n/a	n/a	n/a	2.27	n/a	B
S11V005062	A	7440-47-3	Chromium	ug/g	85.2	<5.00E-03	7.83	n/a	n/a	n/a	n/a	1.13	n/a	B
S11V005062	A	7440-50-8	Copper	ug/g	95.4	<5.00E-03	12.5	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005062	A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	2.28E+04	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005062	A	7440-09-7	Potassium	ug/g	79.1	<0.500	868	n/a	n/a	n/a	n/a	113	n/a	B
S11V005062	A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	10.3	n/a	n/a	n/a	n/a	0.680	n/a	
S11V005062	A	7439-93-2	Lithium	ug/g	97.9	<3.00E-03	7.76	n/a	n/a	n/a	n/a	0.680	n/a	
S11V005062	A	7439-95-4	Magnesium	ug/g	86.4	<0.0500	4.86E+03	n/a	n/a	n/a	n/a	11.3	n/a	
S11V005062	A	7439-96-5	Manganese	ug/g	84.3	<3.00E-03	321	n/a	n/a	n/a	n/a	0.680	n/a	
S11V005062	A	7439-98-7	Molybdenum	ug/g	87.2	<0.0200	<4.53	n/a	n/a	n/a	n/a	4.53	n/a	U
S11V005062	A	7440-23-5	Sodium	ug/g	98.8	<0.100	409	n/a	n/a	n/a	n/a	22.7	n/a	
S11V005062	A	7440-02-0	Nickel	ug/g	84.8	<0.0200	9.52	n/a	n/a	n/a	n/a	4.53	n/a	B
S11V005062	A	7723-14-0	Phosphorus	ug/g	87.8	<0.0500	876	n/a	n/a	n/a	n/a	11.3	n/a	
S11V005062	A	7704-34-9	Sulfur	ug/g	87.6	<0.100	51.4	n/a	n/a	n/a	n/a	22.7	n/a	B
S11V005062	A	7440-21-3	Silicon	ug/g	91.9	<0.0300	86.0	n/a	n/a	n/a	n/a	6.80	n/a	N
S11V005062	A	7440-24-6	Strontium	ug/g	89.9	<3.00E-03	32.2	n/a	n/a	n/a	n/a	0.680	n/a	N
S11V005062	A	7440-32-6	Titanium	ug/g	86.1	<5.00E-03	1.48E+03	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005062	A	7440-62-2	Vanadium	ug/g	88.2	<5.00E-03	55.0	n/a	n/a	n/a	n/a	1.13	n/a	

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB27
Sample Depth: 5.7'-7.7'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005062	A	7440-65-5	Yttrium	ug/g	84.7	<2.00E-03	10.9	n/a	n/a	n/a	n/a	0.453	n/a	
S11V005062	A	7440-66-6	Zinc	ug/g	87.6	8.03E-03	42.1	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005062	A	7440-67-7	Zirconium	ug/g	85.9	<5.00E-03	7.95	n/a	n/a	n/a	n/a	1.13	n/a	BN
S11V005062	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.17E-05	n/a	n/a	n/a	n/a	3.17E-05	n/a	U
S11V005062	A	TH-232	Thorium-232	ug/g	95.8	<2.50E-04	2.05	n/a	n/a	n/a	n/a	2.27E-03	n/a	
S11V005062	A	13968-55-3	Uranium-233	ug/g	105	<1.00E-04	<9.06E-04	n/a	n/a	n/a	n/a	9.06E-04	n/a	U
S11V005062	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.27E-05	n/a	n/a	n/a	n/a	2.27E-05	n/a	U
S11V005062	A	15117-96-1	Uranium-235	ug/g	94.4	<5.00E-06	2.88E-03	n/a	n/a	n/a	n/a	4.53E-05	n/a	
S11V005062	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.81E-05	n/a	n/a	n/a	n/a	1.81E-05	n/a	U
S11V005062	A	13994-20-2	Neptunium-237	ug/g	97.1	<5.00E-05	<4.53E-04	n/a	n/a	n/a	n/a	4.53E-04	n/a	U
S11V005062	A	U-238	Uranium-238	ug/g	94.9	<2.50E-04	0.405	n/a	n/a	n/a	n/a	2.27E-03	n/a	
S11V005062	A	7440-22-4	Silver	ug/g	107	1.92E-03	0.0315	n/a	n/a	n/a	n/a	9.06E-03	n/a	CB
S11V005062	A	7440-38-2	Arsenic	ug/g	75.4	<0.0210	2.43	n/a	n/a	n/a	n/a	0.190	n/a	N
S11V005062	A	7440-43-9	Cadmium	ug/g	107	<3.00E-03	0.0393	n/a	n/a	n/a	n/a	0.0272	n/a	B
S11V005062	A	7439-92-1	Lead	ug/g	100	<7.50E-03	3.34	n/a	n/a	n/a	n/a	0.0680	n/a	
S11V005062	A	7782-49-2	Selenium	ug/g	98.9	<0.0675	<0.612	n/a	n/a	n/a	n/a	0.612	n/a	U
S11V005062	A	7440-28-0	Thallium	ug/g	110	8.31E-03	0.122	n/a	n/a	n/a	n/a	0.0181	n/a	B
S11V005064	A	14133-76-7	Technetium-99	ug/g	109	<6.00E-05	<5.63E-04	n/a	n/a	n/a	n/a	5.63E-04	n/a	U
S11V005065	W	14762-75-5	Carbon-14	uCi/g	89.5	<6.13E-07	<9.26E-07	n/a	n/a	n/a	88.4	9.26E-07	n/a	U
S11V005065	W	10028-17-8	Tritium	uCi/g	101	<1.91E-06	<1.75E-06	n/a	n/a	n/a	n/a	1.75E-06	n/a	U
S11V005066	E	CM-243/244	Curium-243/244	uCi/g	n/a	<1.96E-08	<2.82E-08	<2.44E-08	n/a	n/a	n/a	2.82E-08	n/a	U
S11V005066	E	14596-10-2	Americium-241	uCi/g	95.6	<3.21E-08	<3.13E-08	<1.92E-08	n/a	n/a	n/a	3.13E-08	n/a	U
S11V005066	E	15510-73-3	Curium-242	uCi/g	n/a	<1.15E-08	<1.86E-08	<1.88E-08	n/a	n/a	n/a	1.86E-08	n/a	U
S11V005066	E	PU-239/240	Plutonium-239/240	uCi/g	106	<4.83E-08	<3.71E-08	<3.02E-08	n/a	n/a	n/a	3.71E-08	n/a	U
S11V005066	E	13981-16-3	Plutonium-238	uCi/g	n/a	<4.05E-08	<2.84E-08	<2.10E-08	n/a	n/a	n/a	2.84E-08	n/a	U
S11V005067	E	SR-89/90	Strontium-89/90	uCi/g	102	2.94E-07	<4.15E-07	<4.52E-07	n/a	n/a	n/a	4.15E-07	n/a	U
S11V005068	E	13981-37-8	Nickel-63	uCi/g	100	<7.87E-06	<6.73E-06	<4.69E-06	n/a	n/a	n/a	6.73E-06	n/a	U
S11V005069	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.33E-06	<1.37E-06	<1.39E-06	n/a	n/a	n/a	1.37E-06	n/a	U

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B - Blank Contamination
U - Less Than Detection Limit

C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB29
Sample Depth: 11.5'-15.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005096		13966-00-2	Potassium-40	uCi/g	n/a	<3.41E-06	1.17E-05	n/a	n/a	n/a	n/a	3.10E-06	6.73	
S11V005096		10198-40-0	Cobalt-60	uCi/g	94.4	<9.28E-08	<1.08E-07	n/a	n/a	n/a	n/a	1.08E-07	n/a	U
S11V005096		14234-35-6	Antimony-125	uCi/g	n/a	<3.18E-07	<2.66E-07	n/a	n/a	n/a	n/a	2.66E-07	n/a	U
S11V005096		13967-70-9	Cesium-134	uCi/g	n/a	<6.52E-07	<4.87E-07	n/a	n/a	n/a	n/a	4.87E-07	n/a	U
S11V005096		10045-97-3	Cesium-137	uCi/g	93.8	<1.88E-07	<1.03E-07	n/a	n/a	n/a	n/a	1.03E-07	n/a	U
S11V005096		14683-23-9	Europium-152	uCi/g	n/a	<3.25E-07	<2.39E-07	n/a	n/a	n/a	n/a	2.39E-07	n/a	U
S11V005096		15585-10-1	Europium-154	uCi/g	n/a	<2.93E-07	<2.90E-07	n/a	n/a	n/a	n/a	2.90E-07	n/a	U
S11V005096		14391-16-3	Europium-155	uCi/g	n/a	<3.97E-07	<2.49E-07	n/a	n/a	n/a	n/a	2.49E-07	n/a	U
S11V005096		14913-50-9	Thallium-208	uCi/g	n/a	<1.20E-07	1.18E-06	n/a	n/a	n/a	n/a	1.07E-07	4.27	
S11V005096		15092-94-1	Lead-212	uCi/g	n/a	<1.56E-07	7.79E-07	n/a	n/a	n/a	n/a	1.77E-07	6.76	
S11V005096		14733-03-0	Bismuth-214	uCi/g	n/a	<2.59E-07	4.17E-07	n/a	n/a	n/a	n/a	2.34E-07	14.52	
S11V005096		15067-28-4	Lead-214	uCi/g	n/a	<2.30E-07	1.90E-06	n/a	n/a	n/a	n/a	1.80E-07	3.80	
S11V005096		14274-82-9	Thorium-228	uCi/g	n/a	<4.21E-05	<3.86E-05	n/a	n/a	n/a	n/a	3.86E-05	n/a	U
S11V005096		15065-10-8	Thorium-234	uCi/g	n/a	<7.44E-06	<4.84E-05	n/a	n/a	n/a	n/a	4.84E-05	n/a	U
S11V005096		15046-84-1	Iodine-129	uCi/g	99.1	<1.01E-06	<1.00E-06	n/a	n/a	n/a	n/a	1.00E-06	n/a	U
S11V005098	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<24.1	<24.5	n/a	n/a	n/a	n/a	24.5	n/a	U
S11V005098	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<3.98	<4.05	n/a	n/a	n/a	n/a	4.05	n/a	U
S11V005098	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<6.76	<6.88	n/a	n/a	n/a	n/a	6.88	n/a	U
S11V005098	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<16.1	<16.4	n/a	n/a	n/a	n/a	16.4	n/a	U
S11V005098	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<9.11	<9.27	n/a	n/a	n/a	n/a	9.27	n/a	U
S11V005098	O	11097-69-1	Aroclor 1254	ug/kg	80.6	<5.84	<5.94	n/a	n/a	n/a	n/a	5.94	n/a	U
S11V005098	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<9.43	<9.60	n/a	n/a	n/a	n/a	9.60	n/a	U
S11V005099	A	7440-36-0	Antimony	ug/g	103	<2.00E-04	0.114	n/a	n/a	n/a	n/a	6.45E-03	n/a	
S11V005099	A	SN-117	Tin-117	ug/g	104	<1.00E-03	<0.0323	n/a	n/a	n/a	n/a	0.0323	n/a	U
S11V005099	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.39E-03	n/a	n/a	n/a	n/a	6.45E-04	n/a	E
S11V005101	W	GLYCOLAT	Glycolate	ug/g	98.9	<9.37E-03	<0.0935	n/a	n/a	n/a	n/a	0.0935	n/a	U
S11V005101	W	71-50-1	Acetate	ug/g	101	<6.04E-03	<0.0603	n/a	n/a	n/a	n/a	0.0603	n/a	U
S11V005101	W	FORMATE	Formate	ug/g	100	0.0124	0.327	n/a	n/a	n/a	n/a	0.0466	n/a	CB

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B - Blank Contamination
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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB29
Sample Depth: 11.5'-15.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005101	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
S11V005102	A	7429-90-5	Aluminum	ug/g	89.5	<0.0300	6.91E+03	n/a	n/a	n/a	n/a	6.65	n/a	
S11V005102	A	7440-42-8	Boron	ug/g	85.7	<0.0300	<6.65	n/a	n/a	n/a	n/a	6.65	n/a	U
S11V005102	A	7440-39-3	Barium	ug/g	89.8	<3.00E-03	72.9	n/a	n/a	n/a	n/a	0.665	n/a	N
S11V005102	A	7440-41-7	Beryllium	ug/g	94.9	<1.00E-03	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S11V005102	A	7440-70-2	Calcium	ug/g	82.3	0.798	7.57E+03	n/a	n/a	n/a	n/a	11.1	n/a	
S11V005102	A	7440-45-1	Cerium	ug/g	91.5	<0.0300	21.5	n/a	n/a	n/a	n/a	6.65	n/a	B
S11V005102	A	7440-48-4	Cobalt	ug/g	85.7	<0.0100	7.10	n/a	n/a	n/a	n/a	2.22	n/a	B
S11V005102	A	7440-47-3	Chromium	ug/g	85.2	<5.00E-03	10.1	n/a	n/a	n/a	n/a	1.11	n/a	B
S11V005102	A	7440-50-8	Copper	ug/g	95.4	<5.00E-03	11.4	n/a	n/a	n/a	n/a	1.11	n/a	
S11V005102	A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	2.13E+04	n/a	n/a	n/a	n/a	1.11	n/a	
S11V005102	A	7440-09-7	Potassium	ug/g	79.1	<0.500	864	n/a	n/a	n/a	n/a	111	n/a	B
S11V005102	A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	9.10	n/a	n/a	n/a	n/a	0.665	n/a	
S11V005102	A	7439-93-2	Lithium	ug/g	97.9	<3.00E-03	8.25	n/a	n/a	n/a	n/a	0.665	n/a	
S11V005102	A	7439-95-4	Magnesium	ug/g	86.4	<0.0500	4.59E+03	n/a	n/a	n/a	n/a	11.1	n/a	
S11V005102	A	7439-96-5	Manganese	ug/g	84.3	<3.00E-03	299	n/a	n/a	n/a	n/a	0.665	n/a	
S11V005102	A	7439-98-7	Molybdenum	ug/g	87.2	<0.0200	<4.43	n/a	n/a	n/a	n/a	4.43	n/a	U
S11V005102	A	7440-23-5	Sodium	ug/g	98.8	<0.100	362	n/a	n/a	n/a	n/a	22.2	n/a	
S11V005102	A	7440-02-0	Nickel	ug/g	84.8	<0.0200	8.22	n/a	n/a	n/a	n/a	4.43	n/a	B
S11V005102	A	7723-14-0	Phosphorus	ug/g	87.8	<0.0500	752	n/a	n/a	n/a	n/a	11.1	n/a	
S11V005102	A	7704-34-9	Sulfur	ug/g	87.6	<0.100	53.9	n/a	n/a	n/a	n/a	22.2	n/a	B
S11V005102	A	7440-21-3	Silicon	ug/g	91.9	<0.0300	98.2	n/a	n/a	n/a	n/a	6.65	n/a	N
S11V005102	A	7440-24-6	Strontium	ug/g	89.9	<3.00E-03	30.1	n/a	n/a	n/a	n/a	0.665	n/a	N
S11V005102	A	7440-32-6	Titanium	ug/g	86.1	<5.00E-03	1.46E+03	n/a	n/a	n/a	n/a	1.11	n/a	
S11V005102	A	7440-62-2	Vanadium	ug/g	88.2	<5.00E-03	51.8	n/a	n/a	n/a	n/a	1.11	n/a	
S11V005102	A	7440-65-5	Yttrium	ug/g	84.7	<2.00E-03	8.75	n/a	n/a	n/a	n/a	0.443	n/a	
S11V005102	A	7440-66-6	Zinc	ug/g	87.6	8.03E-03	41.6	n/a	n/a	n/a	n/a	1.11	n/a	
S11V005102	A	7440-67-7	Zirconium	ug/g	85.9	<5.00E-03	9.57	n/a	n/a	n/a	n/a	1.11	n/a	BN

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB29
Sample Depth: 11.5'-15.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005102	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.10E-05	n/a	n/a	n/a	n/a	3.10E-05	n/a	U
S11V005102	A	TH-232	Thorium-232	ug/g	95.8	<2.50E-04	2.32	n/a	n/a	n/a	n/a	2.22E-03	n/a	
S11V005102	A	13968-55-3	Uranium-233	ug/g	105	<1.00E-04	<8.87E-04	n/a	n/a	n/a	n/a	8.87E-04	n/a	U
S11V005102	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	2.75E-05	n/a	n/a	n/a	n/a	2.22E-05	n/a	
S11V005102	A	15117-96-1	Uranium-235	ug/g	94.4	<5.00E-06	2.77E-03	n/a	n/a	n/a	n/a	4.43E-05	n/a	
S11V005102	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.77E-05	n/a	n/a	n/a	n/a	1.77E-05	n/a	U
S11V005102	A	13994-20-2	Neptunium-237	ug/g	97.1	<5.00E-05	<4.43E-04	n/a	n/a	n/a	n/a	4.43E-04	n/a	U
S11V005102	A	U-238	Uranium-238	ug/g	94.9	<2.50E-04	0.414	n/a	n/a	n/a	n/a	2.22E-03	n/a	
S11V005102	A	7440-22-4	Silver	ug/g	107	1.92E-03	0.0286	n/a	n/a	n/a	n/a	8.87E-03	n/a	CB
S11V005102	A	7440-38-2	Arsenic	ug/g	75.4	<0.0210	2.78	n/a	n/a	n/a	n/a	0.186	n/a	N
S11V005102	A	7440-43-9	Cadmium	ug/g	107	<3.00E-03	0.0440	n/a	n/a	n/a	n/a	0.0266	n/a	B
S11V005102	A	7439-92-1	Lead	ug/g	100	<7.50E-03	3.20	n/a	n/a	n/a	n/a	0.0665	n/a	
S11V005102	A	7782-49-2	Selenium	ug/g	98.9	<0.0675	<0.598	n/a	n/a	n/a	n/a	0.598	n/a	U
S11V005102	A	7440-28-0	Thallium	ug/g	110	8.31E-03	0.118	n/a	n/a	n/a	n/a	0.0177	n/a	B
S11V005105	W	14762-75-5	Carbon-14	uCi/g	89.5	<6.13E-07	1.23E-06	n/a	n/a	n/a	n/a	6.04E-07	69.802	
S11V005105	W	10028-17-8	Tritium	uCi/g	101	<1.91E-06	<1.33E-06	n/a	n/a	n/a	n/a	1.33E-06	n/a	U
S11V005107	E	SR-89/90	Strontium-89/90	uCi/g	102	2.94E-07	<4.96E-07	n/a	n/a	n/a	n/a	4.96E-07	n/a	U
S11V005108	E	13981-37-8	Nickel-63	uCi/g	100	<7.87E-06	<4.84E-06	n/a	n/a	n/a	n/a	4.84E-06	n/a	U
S11V005675		%WATERA	%WATER-APD	%	n/a	n/a	4.000	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005675		WT%SOLID	Weight percent solids	%	n/a	n/a	96.0	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005104	A	14133-76-7	Technetium-99	ug/g	109	<6.00E-05	<5.38E-04	n/a	n/a	n/a	n/a	5.38E-04	n/a	U
S11V005106	E	CM-243/244	Curium-243/244	uCi/g	n/a	<1.96E-08	<3.25E-08	n/a	n/a	n/a	n/a	3.25E-08	n/a	U
S11V005106	E	14596-10-2	Americium-241	uCi/g	95.6	<3.21E-08	<3.39E-08	n/a	n/a	n/a	n/a	3.39E-08	n/a	U
S11V005106	E	15510-73-3	Curium-242	uCi/g	n/a	<1.15E-08	<1.91E-08	n/a	n/a	n/a	n/a	1.91E-08	n/a	U
S11V005106	E	PU-239/240	Plutonium-239/240	uCi/g	106	<4.83E-08	<4.30E-08	n/a	n/a	n/a	n/a	4.30E-08	n/a	U
S11V005106	E	13981-16-3	Plutonium-238	uCi/g	n/a	<4.05E-08	<4.01E-08	n/a	n/a	n/a	n/a	4.01E-08	n/a	U
S11V005109	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.33E-06	<2.66E-06	n/a	n/a	n/a	n/a	2.66E-06	n/a	U

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB30
Sample Depth: 16.1'-18.1'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005115		13966-00-2	Potassium-40	uCi/g	n/a	<3.41E-06	9.98E-06	n/a	n/a	n/a	n/a	2.48E-06	5.84	
S11V005115		10198-40-0	Cobalt-60	uCi/g	94.4	<9.28E-08	<7.46E-08	n/a	n/a	n/a	n/a	7.46E-08	n/a	U
S11V005115		14234-35-6	Antimony-125	uCi/g	n/a	<3.18E-07	3.09E-07	n/a	n/a	n/a	n/a	2.44E-07	24.25	
S11V005115		13967-70-9	Cesium-134	uCi/g	n/a	<6.52E-07	<4.65E-07	n/a	n/a	n/a	n/a	4.65E-07	n/a	U
S11V005115		10045-97-3	Cesium-137	uCi/g	93.8	<1.88E-07	<8.08E-08	n/a	n/a	n/a	n/a	8.08E-08	n/a	U
S11V005115		14683-23-9	Europium-152	uCi/g	n/a	<3.25E-07	<2.66E-07	n/a	n/a	n/a	n/a	2.66E-07	n/a	U
S11V005115		15585-10-1	Europium-154	uCi/g	n/a	<2.93E-07	<2.55E-07	n/a	n/a	n/a	n/a	2.55E-07	n/a	U
S11V005115		14391-16-3	Europium-155	uCi/g	n/a	<3.97E-07	<2.67E-07	n/a	n/a	n/a	n/a	2.67E-07	n/a	U
S11V005115		14913-50-9	Thallium-208	uCi/g	n/a	<1.20E-07	2.41E-07	n/a	n/a	n/a	n/a	1.16E-07	18.18	
S11V005115		15092-94-1	Lead-212	uCi/g	n/a	<1.56E-07	1.38E-06	n/a	n/a	n/a	n/a	1.34E-07	3.30	
S11V005115		14733-03-0	Bismuth-214	uCi/g	n/a	<2.59E-07	6.43E-07	n/a	n/a	n/a	n/a	2.25E-07	13.60	
S11V005115		15067-28-4	Lead-214	uCi/g	n/a	<2.30E-07	1.67E-06	n/a	n/a	n/a	n/a	1.58E-07	3.28	
S11V005115		14274-82-9	Thorium-228	uCi/g	n/a	<4.21E-05	<4.77E-05	n/a	n/a	n/a	n/a	4.77E-05	n/a	U
S11V005115		15065-10-8	Thorium-234	uCi/g	n/a	<7.44E-06	<4.53E-05	n/a	n/a	n/a	n/a	4.53E-05	n/a	U
S11V005115		15046-84-1	Iodine-129	uCi/g	99.1	<1.01E-06	<2.21E-06	n/a	n/a	n/a	n/a	2.21E-06	n/a	U
S11V005116	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<24.1	<24.6	n/a	n/a	n/a	n/a	24.6	n/a	U
S11V005116	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<3.98	<4.06	n/a	n/a	n/a	n/a	4.06	n/a	U
S11V005116	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<6.76	<6.88	n/a	n/a	n/a	n/a	6.88	n/a	U
S11V005116	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<16.1	<16.4	n/a	n/a	n/a	n/a	16.4	n/a	U
S11V005116	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<9.11	<9.28	n/a	n/a	n/a	n/a	9.28	n/a	U
S11V005116	O	11097-69-1	Aroclor 1254	ug/kg	80.6	<5.84	<5.95	n/a	n/a	n/a	84.5	5.95	n/a	U
S11V005116	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<9.43	<9.61	n/a	n/a	n/a	n/a	9.61	n/a	U
S11V005117	A	7440-36-0	Antimony	ug/g	103	<2.00E-04	0.168	n/a	n/a	n/a	n/a	5.98E-03	n/a	
S11V005117	A	SN-117	Tin-117	ug/g	104	<1.00E-03	<0.0299	n/a	n/a	n/a	n/a	0.0299	n/a	U
S11V005117	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.04E-03	n/a	n/a	n/a	n/a	5.98E-04	n/a	E
S11V005119	W	GLYCOLAT	Glycolate	ug/g	98.9	<9.37E-03	<0.0934	n/a	n/a	n/a	n/a	0.0934	n/a	U
S11V005119	W	71-50-1	Acetate	ug/g	101	<6.04E-03	<0.0602	n/a	n/a	n/a	n/a	0.0602	n/a	U
S11V005119	W	FORMATE	Formate	ug/g	100	0.0124	0.215	n/a	n/a	n/a	n/a	0.0466	n/a	CB

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB30
Sample Depth: 16.1'-18.1'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005119	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
S11V005120	A	7429-90-5	Aluminum	ug/g	89.5	<0.0300	7.86E+03	n/a	n/a	n/a	n/a	6.76	n/a	
S11V005120	A	7440-42-8	Boron	ug/g	85.7	<0.0300	<6.76	n/a	n/a	n/a	n/a	6.76	n/a	U
S11V005120	A	7440-39-3	Barium	ug/g	89.8	<3.00E-03	75.8	n/a	n/a	n/a	n/a	0.676	n/a	N
S11V005120	A	7440-41-7	Beryllium	ug/g	94.9	<1.00E-03	<0.225	n/a	n/a	n/a	n/a	0.225	n/a	U
S11V005120	A	7440-70-2	Calcium	ug/g	82.3	0.798	8.47E+03	n/a	n/a	n/a	n/a	11.3	n/a	
S11V005120	A	7440-45-1	Cerium	ug/g	91.5	<0.0300	23.1	n/a	n/a	n/a	n/a	6.76	n/a	B
S11V005120	A	7440-48-4	Cobalt	ug/g	85.7	<0.0100	6.65	n/a	n/a	n/a	n/a	2.25	n/a	B
S11V005120	A	7440-47-3	Chromium	ug/g	85.2	<5.00E-03	11.1	n/a	n/a	n/a	n/a	1.13	n/a	B
S11V005120	A	7440-50-8	Copper	ug/g	95.4	<5.00E-03	11.8	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005120	A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	2.36E+04	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005120	A	7440-09-7	Potassium	ug/g	79.1	<0.500	954	n/a	n/a	n/a	n/a	113	n/a	B
S11V005120	A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	10.8	n/a	n/a	n/a	n/a	0.676	n/a	
S11V005120	A	7439-93-2	Lithium	ug/g	97.9	<3.00E-03	8.64	n/a	n/a	n/a	n/a	0.676	n/a	
S11V005120	A	7439-95-4	Magnesium	ug/g	86.4	<0.0500	4.99E+03	n/a	n/a	n/a	n/a	11.3	n/a	
S11V005120	A	7439-96-5	Manganese	ug/g	84.3	<3.00E-03	346	n/a	n/a	n/a	n/a	0.676	n/a	
S11V005120	A	7439-98-7	Molybdenum	ug/g	87.2	<0.0200	<4.50	n/a	n/a	n/a	n/a	4.50	n/a	U
S11V005120	A	7440-23-5	Sodium	ug/g	98.8	<0.100	394	n/a	n/a	n/a	n/a	22.5	n/a	
S11V005120	A	7440-02-0	Nickel	ug/g	84.8	<0.0200	11.8	n/a	n/a	n/a	n/a	4.50	n/a	B
S11V005120	A	7723-14-0	Phosphorus	ug/g	87.8	<0.0500	791	n/a	n/a	n/a	n/a	11.3	n/a	
S11V005120	A	7440-10-0	Praseodymium	ug/g	94.9	<0.0100	3.10	n/a	n/a	n/a	n/a	2.25	n/a	B
S11V005120	A	7704-34-9	Sulfur	ug/g	87.6	<0.100	56.7	n/a	n/a	n/a	n/a	22.5	n/a	B
S11V005120	A	7440-21-3	Silicon	ug/g	91.9	<0.0300	97.1	n/a	n/a	n/a	n/a	6.76	n/a	N
S11V005120	A	7440-24-6	Strontium	ug/g	89.9	<3.00E-03	35.0	n/a	n/a	n/a	n/a	0.676	n/a	N
S11V005120	A	7440-32-6	Titanium	ug/g	86.1	<5.00E-03	1.63E+03	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005120	A	7440-62-2	Vanadium	ug/g	88.2	<5.00E-03	58.9	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005120	A	7440-65-5	Yttrium	ug/g	84.7	<2.00E-03	9.58	n/a	n/a	n/a	n/a	0.450	n/a	
S11V005120	A	7440-66-6	Zinc	ug/g	87.6	8.03E-03	46.9	n/a	n/a	n/a	n/a	1.13	n/a	

NA = Not Analyzed, ND = Not Detected

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T - MS/MSD Outside Range
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B - Estimated
E - Estimated by Interference
B - Blank Contamination
U - Less Than Detection Limit

C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB30
Sample Depth: 16.1'-18.1'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005120	A	7440-67-7	Zirconium	ug/g	85.9	<5.00E-03	10.5	n/a	n/a	n/a	n/a	1.13	n/a	BN
S11V005120	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.15E-05	n/a	n/a	n/a	n/a	3.15E-05	n/a	U
S11V005120	A	TH-232	Thorium-232	ug/g	95.8	<2.50E-04	3.26	n/a	n/a	n/a	n/a	2.25E-03	n/a	
S11V005120	A	13968-55-3	Uranium-233	ug/g	105	<1.00E-04	<9.01E-04	n/a	n/a	n/a	n/a	9.01E-04	n/a	U
S11V005120	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	3.08E-05	n/a	n/a	n/a	n/a	2.25E-05	n/a	
S11V005120	A	15117-96-1	Uranium-235	ug/g	94.4	<5.00E-06	3.87E-03	n/a	n/a	n/a	n/a	4.50E-05	n/a	
S11V005120	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.80E-05	n/a	n/a	n/a	n/a	1.80E-05	n/a	U
S11V005120	A	13994-20-2	Neptunium-237	ug/g	97.1	<5.00E-05	<4.50E-04	n/a	n/a	n/a	n/a	4.50E-04	n/a	U
S11V005120	A	U-238	Uranium-238	ug/g	94.9	<2.50E-04	0.541	n/a	n/a	n/a	n/a	2.25E-03	n/a	
S11V005120	A	7440-22-4	Silver	ug/g	107	1.92E-03	0.0292	n/a	n/a	n/a	n/a	9.01E-03	n/a	CB
S11V005120	A	7440-38-2	Arsenic	ug/g	75.4	<0.0210	2.59	n/a	n/a	n/a	n/a	0.189	n/a	N
S11V005120	A	7440-43-9	Cadmium	ug/g	107	<3.00E-03	0.0420	n/a	n/a	n/a	n/a	0.0270	n/a	B
S11V005120	A	7439-92-1	Lead	ug/g	100	<7.50E-03	2.92	n/a	n/a	n/a	n/a	0.0676	n/a	
S11V005120	A	7782-49-2	Selenium	ug/g	98.9	<0.0675	<0.608	n/a	n/a	n/a	n/a	0.608	n/a	U
S11V005120	A	7440-28-0	Thallium	ug/g	110	8.31E-03	0.122	n/a	n/a	n/a	n/a	0.0180	n/a	B
S11V005123	W	14762-75-5	Carbon-14	uCi/g	89.5	<6.13E-07	<9.16E-07	n/a	n/a	n/a	n/a	9.16E-07	n/a	U
S11V005123	W	10028-17-8	Tritium	uCi/g	101	<1.91E-06	<2.05E-06	n/a	n/a	n/a	n/a	2.05E-06	n/a	U
S11V005124	E	CM-243/244	Curium-243/244	uCi/g	n/a	<1.96E-08	<3.04E-08	n/a	n/a	n/a	n/a	3.04E-08	n/a	U
S11V005124	E	14596-10-2	Americium-241	uCi/g	95.6	<3.21E-08	3.81E-08	n/a	n/a	n/a	n/a	2.99E-08	37.23	
S11V005124	E	15510-73-3	Curium-242	uCi/g	n/a	<1.15E-08	<1.89E-08	n/a	n/a	n/a	n/a	1.89E-08	n/a	U
S11V005124	E	PU-239/240	Plutonium-239/240	uCi/g	106	<4.83E-08	<4.33E-08	n/a	n/a	n/a	n/a	4.33E-08	n/a	U
S11V005124	E	13981-16-3	Plutonium-238	uCi/g	n/a	<4.05E-08	<3.71E-08	n/a	n/a	n/a	n/a	3.71E-08	n/a	U
S11V005125	E	SR-89/90	Strontium-89/90	uCi/g	102	2.94E-07	<5.86E-07	n/a	n/a	n/a	n/a	5.86E-07	n/a	U
S11V005126	E	13981-37-8	Nickel-63	uCi/g	100	<7.87E-06	<6.04E-06	n/a	n/a	n/a	n/a	6.04E-06	n/a	U
S11V005676		%WATERA	%WATER-APD	%	n/a	n/a	3.000	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005676		WT%SOLID	Weight percent solids	%	n/a	n/a	97.0	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005122	A	14133-76-7	Technetium-99	ug/g	109	<6.00E-05	<5.35E-04	n/a	n/a	n/a	n/a	5.35E-04	n/a	U
S11V005127	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.33E-06	2.19E-06	n/a	n/a	n/a	n/a	1.36E-06	147.565	E

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B - Blank Contamination
U - Less Than Detection Limit

C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB31
Sample Depth: 41'- 43'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005133		13966-00-2	Potassium-40	uCi/g	n/a	<3.41E-06	1.32E-05	n/a	n/a	n/a	n/a	2.62E-06	5.93	
S11V005133		10198-40-0	Cobalt-60	uCi/g	94.4	<9.28E-08	<1.30E-07	n/a	n/a	n/a	n/a	1.30E-07	n/a	U
S11V005133		14234-35-6	Antimony-125	uCi/g	n/a	<3.18E-07	<2.18E-07	n/a	n/a	n/a	n/a	2.18E-07	n/a	U
S11V005133		13967-70-9	Cesium-134	uCi/g	n/a	<6.52E-07	<7.38E-07	n/a	n/a	n/a	n/a	7.38E-07	n/a	U
S11V005133		10045-97-3	Cesium-137	uCi/g	93.8	<1.88E-07	<1.16E-07	n/a	n/a	n/a	n/a	1.16E-07	n/a	U
S11V005133		14683-23-9	Europium-152	uCi/g	n/a	<3.25E-07	<3.13E-07	n/a	n/a	n/a	n/a	3.13E-07	n/a	U
S11V005133		15585-10-1	Europium-154	uCi/g	n/a	<2.93E-07	<3.18E-07	n/a	n/a	n/a	n/a	3.18E-07	n/a	U
S11V005133		14391-16-3	Europium-155	uCi/g	n/a	<3.97E-07	<2.07E-07	n/a	n/a	n/a	n/a	2.07E-07	n/a	U
S11V005133		15092-94-1	Lead-212	uCi/g	n/a	<1.56E-07	1.02E-06	n/a	n/a	n/a	n/a	1.46E-07	5.14	
S11V005133		14733-03-0	Bismuth-214	uCi/g	n/a	<2.59E-07	7.01E-07	n/a	n/a	n/a	n/a	2.40E-07	13.26	
S11V005133		15067-28-4	Lead-214	uCi/g	n/a	<2.30E-07	6.63E-07	n/a	n/a	n/a	n/a	2.29E-07	12.53	
S11V005133		14331-83-0	Actinium-228	uCi/g	n/a	1.01E-06	1.48E-06	n/a	n/a	n/a	n/a	3.36E-07	8.23	B
S11V005133		14274-82-9	Thorium-228	uCi/g	n/a	<4.21E-05	<4.22E-05	n/a	n/a	n/a	n/a	4.22E-05	n/a	U
S11V005133		15065-10-8	Thorium-234	uCi/g	n/a	<7.44E-06	<4.78E-05	n/a	n/a	n/a	n/a	4.78E-05	n/a	U
S11V005133		15046-84-1	Iodine-129	uCi/g	99.1	<1.01E-06	<1.26E-06	n/a	n/a	n/a	n/a	1.26E-06	n/a	U
S11V005135	A	7440-36-0	Antimony	ug/g	103	<2.00E-04	0.211	n/a	n/a	n/a	n/a	6.35E-03	n/a	
S11V005135	A	SN-117	Tin-117	ug/g	104	<1.00E-03	0.0533	n/a	n/a	n/a	n/a	0.0318	n/a	
S11V005135	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.25E-03	n/a	n/a	n/a	n/a	6.35E-04	n/a	E
S11V005137	W	GLYCOLAT	Glycolate	ug/g	98.9	<9.37E-03	<0.0932	n/a	n/a	n/a	n/a	0.0932	n/a	U
S11V005137	W	71-50-1	Acetate	ug/g	101	<6.04E-03	1.88	n/a	n/a	n/a	n/a	0.0601	n/a	
S11V005137	W	FORMATE	Formate	ug/g	100	0.0124	1.29	n/a	n/a	n/a	n/a	0.0465	n/a	
S11V005137	W	338-70-5	Oxalate	ug/g	101	<0.0231	2.66	n/a	n/a	n/a	n/a	0.230	n/a	
S11V005138	A	7429-90-5	Aluminum	ug/g	89.5	<0.0300	1.03E+04	n/a	n/a	n/a	n/a	6.74	n/a	
S11V005138	A	7440-42-8	Boron	ug/g	85.7	<0.0300	6.96	n/a	n/a	n/a	n/a	6.74	n/a	B
S11V005138	A	7440-39-3	Barium	ug/g	89.8	<3.00E-03	92.4	n/a	n/a	n/a	n/a	0.674	n/a	N
S11V005138	A	7440-41-7	Beryllium	ug/g	94.9	<1.00E-03	0.231	n/a	n/a	n/a	n/a	0.225	n/a	B
S11V005138	A	7440-70-2	Calcium	ug/g	82.3	0.798	3.22E+04	n/a	n/a	n/a	n/a	11.2	n/a	
S11V005138	A	7440-45-1	Cerium	ug/g	91.5	<0.0300	24.5	n/a	n/a	n/a	n/a	6.74	n/a	B

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB31
Sample Depth: 41'- 43'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005138	A	7440-48-4	Cobalt	ug/g	85.7	<0.0100	7.16	n/a	n/a	n/a	n/a	2.25	n/a	B
S11V005138	A	7440-47-3	Chromium	ug/g	85.2	<5.00E-03	19.9	n/a	n/a	n/a	n/a	1.12	n/a	
S11V005138	A	7440-50-8	Copper	ug/g	95.4	<5.00E-03	14.1	n/a	n/a	n/a	n/a	1.12	n/a	
S11V005138	A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	2.24E+04	n/a	n/a	n/a	n/a	1.12	n/a	
S11V005138	A	7440-09-7	Potassium	ug/g	79.1	<0.500	1.13E+03	n/a	n/a	n/a	n/a	112	n/a	
S11V005138	A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	10.5	n/a	n/a	n/a	n/a	0.674	n/a	
S11V005138	A	7439-93-2	Lithium	ug/g	97.9	<3.00E-03	8.07	n/a	n/a	n/a	n/a	0.674	n/a	
S11V005138	A	7439-95-4	Magnesium	ug/g	86.4	<0.0500	5.41E+03	n/a	n/a	n/a	n/a	11.2	n/a	
S11V005138	A	7439-96-5	Manganese	ug/g	84.3	<3.00E-03	316	n/a	n/a	n/a	n/a	0.674	n/a	
S11V005138	A	7439-98-7	Molybdenum	ug/g	87.2	<0.0200	<4.50	n/a	n/a	n/a	n/a	4.50	n/a	U
S11V005138	A	7440-23-5	Sodium	ug/g	98.8	<0.100	630	n/a	n/a	n/a	n/a	22.5	n/a	
S11V005138	A	7440-02-0	Nickel	ug/g	84.8	<0.0200	15.7	n/a	n/a	n/a	n/a	4.50	n/a	B
S11V005138	A	7723-14-0	Phosphorus	ug/g	87.8	<0.0500	852	n/a	n/a	n/a	n/a	11.2	n/a	
S11V005138	A	7704-34-9	Sulfur	ug/g	87.6	<0.100	595	n/a	n/a	n/a	n/a	22.5	n/a	
S11V005138	A	7440-21-3	Silicon	ug/g	91.9	<0.0300	119	n/a	n/a	n/a	n/a	6.74	n/a	N
S11V005138	A	7440-24-6	Strontium	ug/g	89.9	<3.00E-03	67.7	n/a	n/a	n/a	n/a	0.674	n/a	N
S11V005138	A	7440-32-6	Titanium	ug/g	86.1	<5.00E-03	1.63E+03	n/a	n/a	n/a	n/a	1.12	n/a	
S11V005138	A	7440-62-2	Vanadium	ug/g	88.2	<5.00E-03	57.7	n/a	n/a	n/a	n/a	1.12	n/a	
S11V005138	A	7440-65-5	Yttrium	ug/g	84.7	<2.00E-03	10.2	n/a	n/a	n/a	n/a	0.450	n/a	
S11V005138	A	7440-66-6	Zinc	ug/g	87.6	8.03E-03	44.3	n/a	n/a	n/a	n/a	1.12	n/a	
S11V005138	A	7440-67-7	Zirconium	ug/g	85.9	<5.00E-03	5.76	n/a	n/a	n/a	n/a	1.12	n/a	BN
S11V005138	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.15E-05	n/a	n/a	n/a	n/a	3.15E-05	n/a	U
S11V005138	A	TH-232	Thorium-232	ug/g	95.8	<2.50E-04	2.46	n/a	n/a	n/a	n/a	2.25E-03	n/a	
S11V005138	A	13968-55-3	Uranium-233	ug/g	105	<1.00E-04	<8.99E-04	n/a	n/a	n/a	n/a	8.99E-04	n/a	U
S11V005138	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	4.92E-05	n/a	n/a	n/a	n/a	2.25E-05	n/a	
S11V005138	A	15117-96-1	Uranium-235	ug/g	94.4	<5.00E-06	6.76E-03	n/a	n/a	n/a	n/a	4.50E-05	n/a	
S11V005138	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.80E-05	n/a	n/a	n/a	n/a	1.80E-05	n/a	U
S11V005138	A	13994-20-2	Neptunium-237	ug/g	97.1	<5.00E-05	<4.50E-04	n/a	n/a	n/a	n/a	4.50E-04	n/a	U

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB31
Sample Depth: 41'- 43'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005138	A	U-238	Uranium-238	ug/g	94.9	<2.50E-04	0.959	n/a	n/a	n/a	n/a	2.25E-03	n/a	
S11V005138	A	7440-22-4	Silver	ug/g	107	1.92E-03	0.0769	n/a	n/a	n/a	n/a	8.99E-03	n/a	CB
S11V005138	A	7440-38-2	Arsenic	ug/g	75.4	<0.0210	2.82	n/a	n/a	n/a	n/a	0.189	n/a	N
S11V005138	A	7440-43-9	Cadmium	ug/g	107	<3.00E-03	0.0676	n/a	n/a	n/a	n/a	0.0270	n/a	B
S11V005138	A	7439-92-1	Lead	ug/g	100	<7.50E-03	11.9	n/a	n/a	n/a	n/a	0.0674	n/a	
S11V005138	A	7782-49-2	Selenium	ug/g	98.9	<0.0675	<0.607	n/a	n/a	n/a	n/a	0.607	n/a	U
S11V005138	A	7440-28-0	Thallium	ug/g	110	8.31E-03	0.139	n/a	n/a	n/a	n/a	0.0180	n/a	B
S11V005140	A	14133-76-7	Technetium-99	ug/g	109	<6.00E-05	9.46E-04	n/a	n/a	n/a	n/a	5.25E-04	n/a	
S11V005141	W	14762-75-5	Carbon-14	uCi/g	89.5	<6.13E-07	<6.04E-07	n/a	n/a	n/a	n/a	6.04E-07	n/a	U
S11V005141	W	10028-17-8	Tritium	uCi/g	101	<1.91E-06	<1.87E-06	n/a	n/a	n/a	n/a	1.87E-06	n/a	U
S11V005142	E	CM-243/244	Curium-243/244	uCi/g	n/a	<1.96E-08	<3.03E-08	n/a	n/a	n/a	n/a	3.03E-08	n/a	U
S11V005142	E	14596-10-2	Americium-241	uCi/g	95.6	<3.21E-08	<3.45E-08	n/a	n/a	n/a	n/a	3.45E-08	n/a	U
S11V005142	E	15510-73-3	Curium-242	uCi/g	n/a	<1.15E-08	<1.70E-08	n/a	n/a	n/a	n/a	1.70E-08	n/a	U
S11V005142	E	PU-239/240	Plutonium-239/240	uCi/g	106	<4.83E-08	<4.19E-08	n/a	n/a	n/a	n/a	4.19E-08	n/a	U
S11V005142	E	13981-16-3	Plutonium-238	uCi/g	n/a	<4.05E-08	<3.63E-08	n/a	n/a	n/a	n/a	3.63E-08	n/a	U
S11V005143	E	SR-89/90	Strontium-89/90	uCi/g	102	2.94E-07	<4.99E-07	n/a	n/a	n/a	n/a	4.99E-07	n/a	U
S11V005144	E	13981-37-8	Nickel-63	uCi/g	100	<7.87E-06	<6.94E-06	n/a	n/a	n/a	n/a	6.94E-06	n/a	U
S11V005678		%WATERA	%WATER-APD	%	n/a	n/a	9.000	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005678		WT%SOLID	Weight percent solids	%	n/a	n/a	91.0	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005145	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.33E-06	<1.30E-06	n/a	n/a	n/a	n/a	1.30E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

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

C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB32
Sample Depth: 93'- 95'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005151		13966-00-2	Potassium-40	uCi/g	n/a	<3.41E-06	1.68E-05	n/a	n/a	n/a	n/a	3.34E-06	5.71	
S11V005151		10198-40-0	Cobalt-60	uCi/g	94.4	<9.28E-08	<1.32E-07	n/a	n/a	n/a	n/a	1.32E-07	n/a	U
S11V005151		14234-35-6	Antimony-125	uCi/g	n/a	<3.18E-07	<3.67E-07	n/a	n/a	n/a	n/a	3.67E-07	n/a	U
S11V005151		13967-70-9	Cesium-134	uCi/g	n/a	<6.52E-07	<7.32E-07	n/a	n/a	n/a	n/a	7.32E-07	n/a	U
S11V005151		10045-97-3	Cesium-137	uCi/g	93.8	<1.88E-07	<1.90E-07	n/a	n/a	n/a	n/a	1.90E-07	n/a	U
S11V005151		14683-23-9	Europium-152	uCi/g	n/a	<3.25E-07	<3.51E-07	n/a	n/a	n/a	n/a	3.51E-07	n/a	U
S11V005151		15585-10-1	Europium-154	uCi/g	n/a	<2.93E-07	<3.57E-07	n/a	n/a	n/a	n/a	3.57E-07	n/a	U
S11V005151		14391-16-3	Europium-155	uCi/g	n/a	<3.97E-07	<4.22E-07	n/a	n/a	n/a	n/a	4.22E-07	n/a	U
S11V005151		14913-50-9	Thallium-208	uCi/g	n/a	<1.20E-07	3.18E-07	n/a	n/a	n/a	n/a	1.37E-07	15.13	
S11V005151		14913-49-6	Bismuth-212	uCi/g	n/a	<1.47E-06	2.49E-06	n/a	n/a	n/a	n/a	1.46E-06	22.65	
S11V005151		15092-94-1	Lead-212	uCi/g	n/a	<1.56E-07	9.95E-07	n/a	n/a	n/a	n/a	1.86E-07	6.35	
S11V005151		14733-03-0	Bismuth-214	uCi/g	n/a	<2.59E-07	7.33E-07	n/a	n/a	n/a	n/a	2.70E-07	10.89	
S11V005151		15067-28-4	Lead-214	uCi/g	n/a	<2.30E-07	8.00E-07	n/a	n/a	n/a	n/a	2.42E-07	9.51	
S11V005151		14331-83-0	Actinium-228	uCi/g	n/a	1.01E-06	1.90E-06	n/a	n/a	n/a	n/a	3.60E-07	7.55	B
S11V005151		14274-82-9	Thorium-228	uCi/g	n/a	<4.21E-05	<4.87E-05	n/a	n/a	n/a	n/a	4.87E-05	n/a	U
S11V005151		15065-10-8	Thorium-234	uCi/g	n/a	<7.44E-06	<1.66E-04	n/a	n/a	n/a	n/a	1.66E-04	n/a	U
S11V005151		15046-84-1	Iodine-129	uCi/g	99.1	<1.01E-06	<1.11E-06	n/a	n/a	n/a	n/a	1.11E-06	n/a	U
S11V005153	A	7440-36-0	Antimony	ug/g	103	<2.00E-04	0.163	n/a	n/a	n/a	n/a	6.67E-03	n/a	
S11V005153	A	SN-117	Tin-117	ug/g	104	<1.00E-03	<0.0334	n/a	n/a	n/a	n/a	0.0334	n/a	U
S11V005153	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.13E-03	n/a	n/a	n/a	n/a	6.67E-04	n/a	E
S11V005155	W	GLYCOLAT	Glycolate	ug/g	98.9	<9.37E-03	<0.0932	n/a	n/a	n/a	n/a	0.0932	n/a	U
S11V005155	W	71-50-1	Acetate	ug/g	101	<6.04E-03	<0.0601	n/a	n/a	n/a	n/a	0.0601	n/a	U
S11V005155	W	FORMATE	Formate	ug/g	100	0.0124	0.185	n/a	n/a	n/a	n/a	0.0465	n/a	CB
S11V005155	W	338-70-5	Oxalate	ug/g	101	<0.0231	0.278	n/a	n/a	n/a	n/a	0.230	n/a	B
S11V005156	A	7429-90-5	Aluminum	ug/g	89.5	<0.0300	6.35E+03	n/a	n/a	n/a	n/a	6.67	n/a	
S11V005156	A	7440-42-8	Boron	ug/g	85.7	<0.0300	<6.67	n/a	n/a	n/a	n/a	6.67	n/a	U
S11V005156	A	7440-39-3	Barium	ug/g	89.8	<3.00E-03	61.0	n/a	n/a	n/a	n/a	0.667	n/a	N
S11V005156	A	7440-41-7	Beryllium	ug/g	94.9	<1.00E-03	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U

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B - Blank Contamination
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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB32
Sample Depth: 93'- 95'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005156	A	7440-70-2	Calcium	ug/g	82.3	0.798	8.75E+03	n/a	n/a	n/a	n/a	11.1	n/a	
S11V005156	A	7440-45-1	Cerium	ug/g	91.5	<0.0300	20.1	n/a	n/a	n/a	n/a	6.67	n/a	B
S11V005156	A	7440-48-4	Cobalt	ug/g	85.7	<0.0100	5.56	n/a	n/a	n/a	n/a	2.22	n/a	B
S11V005156	A	7440-47-3	Chromium	ug/g	85.2	<5.00E-03	27.7	n/a	n/a	n/a	n/a	1.11	n/a	
S11V005156	A	7440-50-8	Copper	ug/g	95.4	<5.00E-03	10.7	n/a	n/a	n/a	n/a	1.11	n/a	B
S11V005156	A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	1.66E+04	n/a	n/a	n/a	n/a	1.11	n/a	
S11V005156	A	7440-09-7	Potassium	ug/g	79.1	<0.500	841	n/a	n/a	n/a	n/a	111	n/a	B
S11V005156	A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	8.11	n/a	n/a	n/a	n/a	0.667	n/a	
S11V005156	A	7439-93-2	Lithium	ug/g	97.9	<3.00E-03	9.21	n/a	n/a	n/a	n/a	0.667	n/a	
S11V005156	A	7439-95-4	Magnesium	ug/g	86.4	<0.0500	5.05E+03	n/a	n/a	n/a	n/a	11.1	n/a	
S11V005156	A	7439-96-5	Manganese	ug/g	84.3	<3.00E-03	302	n/a	n/a	n/a	n/a	0.667	n/a	
S11V005156	A	7439-98-7	Molybdenum	ug/g	87.2	<0.0200	<4.45	n/a	n/a	n/a	n/a	4.45	n/a	U
S11V005156	A	7440-23-5	Sodium	ug/g	98.8	<0.100	269	n/a	n/a	n/a	n/a	22.2	n/a	
S11V005156	A	7440-02-0	Nickel	ug/g	84.8	<0.0200	18.0	n/a	n/a	n/a	n/a	4.45	n/a	B
S11V005156	A	7723-14-0	Phosphorus	ug/g	87.8	<0.0500	518	n/a	n/a	n/a	n/a	11.1	n/a	
S11V005156	A	7704-34-9	Sulfur	ug/g	87.6	<0.100	54.2	n/a	n/a	n/a	n/a	22.2	n/a	B
S11V005156	A	7440-21-3	Silicon	ug/g	91.9	<0.0300	58.2	n/a	n/a	n/a	n/a	6.67	n/a	BN
S11V005156	A	7440-24-6	Strontium	ug/g	89.9	<3.00E-03	29.4	n/a	n/a	n/a	n/a	0.667	n/a	N
S11V005156	A	7440-32-6	Titanium	ug/g	86.1	<5.00E-03	813	n/a	n/a	n/a	n/a	1.11	n/a	
S11V005156	A	7440-62-2	Vanadium	ug/g	88.2	<5.00E-03	32.9	n/a	n/a	n/a	n/a	1.11	n/a	
S11V005156	A	7440-65-5	Yttrium	ug/g	84.7	<2.00E-03	5.89	n/a	n/a	n/a	n/a	0.445	n/a	
S11V005156	A	7440-66-6	Zinc	ug/g	87.6	8.03E-03	30.7	n/a	n/a	n/a	n/a	1.11	n/a	
S11V005156	A	7440-67-7	Zirconium	ug/g	85.9	<5.00E-03	6.19	n/a	n/a	n/a	n/a	1.11	n/a	BN
S11V005156	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.11E-05	n/a	n/a	n/a	n/a	3.11E-05	n/a	U
S11V005156	A	TH-232	Thorium-232	ug/g	95.8	<2.50E-04	3.15	n/a	n/a	n/a	n/a	2.22E-03	n/a	
S11V005156	A	13968-55-3	Uranium-233	ug/g	105	<1.00E-04	<8.89E-04	n/a	n/a	n/a	n/a	8.89E-04	n/a	U
S11V005156	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	4.34E-05	n/a	n/a	n/a	n/a	2.22E-05	n/a	
S11V005156	A	15117-96-1	Uranium-235	ug/g	94.4	<5.00E-06	3.93E-03	n/a	n/a	n/a	n/a	4.45E-05	n/a	

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB32
Sample Depth: 93'- 95'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005156	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.78E-05	n/a	n/a	n/a	n/a	1.78E-05	n/a	U
S11V005156	A	13994-20-2	Neptunium-237	ug/g	97.1	<5.00E-05	<4.45E-04	n/a	n/a	n/a	n/a	4.45E-04	n/a	U
S11V005156	A	U-238	Uranium-238	ug/g	94.9	<2.50E-04	0.588	n/a	n/a	n/a	n/a	2.22E-03	n/a	
S11V005156	A	7440-22-4	Silver	ug/g	107	1.92E-03	0.0434	n/a	n/a	n/a	n/a	8.89E-03	n/a	CB
S11V005156	A	7440-38-2	Arsenic	ug/g	75.4	<0.0210	3.87	n/a	n/a	n/a	n/a	0.187	n/a	N
S11V005156	A	7440-43-9	Cadmium	ug/g	107	<3.00E-03	0.0572	n/a	n/a	n/a	n/a	0.0267	n/a	B
S11V005156	A	7439-92-1	Lead	ug/g	100	<7.50E-03	3.76	n/a	n/a	n/a	n/a	0.0667	n/a	
S11V005156	A	7782-49-2	Selenium	ug/g	98.9	<0.0675	<0.600	n/a	n/a	n/a	n/a	0.600	n/a	U
S11V005156	A	7440-28-0	Thallium	ug/g	110	8.31E-03	0.133	n/a	n/a	n/a	n/a	0.0178	n/a	B
S11V005158	A	14133-76-7	Technetium-99	ug/g	109	<6.00E-05	<5.65E-04	n/a	n/a	n/a	n/a	5.65E-04	n/a	U
S11V005159	W	14762-75-5	Carbon-14	uCi/g	89.5	<6.13E-07	<8.20E-07	n/a	n/a	n/a	n/a	8.20E-07	n/a	U
S11V005159	W	10028-17-8	Tritium	uCi/g	101	<1.91E-06	<1.58E-06	n/a	n/a	n/a	n/a	1.58E-06	n/a	U
S11V005160	E	CM-243/244	Curium-243/244	uCi/g	n/a	<1.96E-08	<1.83E-08	n/a	n/a	n/a	n/a	1.83E-08	n/a	U
S11V005160	E	14596-10-2	Americium-241	uCi/g	95.6	<3.21E-08	<2.97E-08	n/a	n/a	n/a	n/a	2.97E-08	n/a	U
S11V005160	E	15510-73-3	Curium-242	uCi/g	n/a	<1.15E-08	<1.77E-08	n/a	n/a	n/a	n/a	1.77E-08	n/a	U
S11V005160	E	PU-239/240	Plutonium-239/240	uCi/g	106	<4.83E-08	<3.87E-08	n/a	n/a	n/a	n/a	3.87E-08	n/a	U
S11V005160	E	13981-16-3	Plutonium-238	uCi/g	n/a	<4.05E-08	<3.88E-08	n/a	n/a	n/a	n/a	3.88E-08	n/a	U
S11V005161	E	SR-89/90	Strontium-89/90	uCi/g	102	2.94E-07	<1.40E-07	n/a	n/a	n/a	n/a	1.40E-07	n/a	U
S11V005162	E	13981-37-8	Nickel-63	uCi/g	100	<7.87E-06	<4.78E-06	n/a	n/a	n/a	n/a	4.78E-06	n/a	U
S11V005163	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.33E-06	2.17E-06	n/a	n/a	n/a	n/a	1.39E-06	861.427	E
S11V005679		%WATERA	%WATER-APD	%	n/a	n/a	2.000	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005679		WT%SOLID	Weight percent solids	%	n/a	n/a	98.0	n/a	n/a	n/a	n/a	0.0100	n/a	

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB33
Sample Depth: 117'-119'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005169		13966-00-2	Potassium-40	uCi/g	n/a	<3.41E-06	1.66E-05	n/a	n/a	n/a	n/a	3.05E-06	4.82	
S11V005169		10198-40-0	Cobalt-60	uCi/g	94.4	<9.28E-08	<1.10E-07	n/a	n/a	n/a	n/a	1.10E-07	n/a	U
S11V005169		14234-35-6	Antimony-125	uCi/g	n/a	<3.18E-07	<2.86E-07	n/a	n/a	n/a	n/a	2.86E-07	n/a	U
S11V005169		13967-70-9	Cesium-134	uCi/g	n/a	<6.52E-07	<5.85E-07	n/a	n/a	n/a	n/a	5.85E-07	n/a	U
S11V005169		10045-97-3	Cesium-137	uCi/g	93.8	<1.88E-07	<1.04E-07	n/a	n/a	n/a	n/a	1.04E-07	n/a	U
S11V005169		14683-23-9	Europium-152	uCi/g	n/a	<3.25E-07	<2.67E-07	n/a	n/a	n/a	n/a	2.67E-07	n/a	U
S11V005169		15585-10-1	Europium-154	uCi/g	n/a	<2.93E-07	<2.94E-07	n/a	n/a	n/a	n/a	2.94E-07	n/a	U
S11V005169		14391-16-3	Europium-155	uCi/g	n/a	<3.97E-07	<2.44E-07	n/a	n/a	n/a	n/a	2.44E-07	n/a	U
S11V005169		14913-50-9	Thallium-208	uCi/g	n/a	<1.20E-07	1.22E-06	n/a	n/a	n/a	n/a	8.45E-08	2.65	
S11V005169		15092-94-1	Lead-212	uCi/g	n/a	<1.56E-07	8.25E-07	n/a	n/a	n/a	n/a	1.71E-07	6.15	
S11V005169		14733-03-0	Bismuth-214	uCi/g	n/a	<2.59E-07	8.25E-07	n/a	n/a	n/a	n/a	2.33E-07	8.92	
S11V005169		15067-28-4	Lead-214	uCi/g	n/a	<2.30E-07	2.36E-06	n/a	n/a	n/a	n/a	1.72E-07	2.63	
S11V005169		14331-83-0	Actinium-228	uCi/g	n/a	1.01E-06	7.65E-07	n/a	n/a	n/a	n/a	4.34E-07	19.15	B
S11V005169		14274-82-9	Thorium-228	uCi/g	n/a	<4.21E-05	<4.68E-05	n/a	n/a	n/a	n/a	4.68E-05	n/a	U
S11V005169		15065-10-8	Thorium-234	uCi/g	n/a	<7.44E-06	<2.70E-05	n/a	n/a	n/a	n/a	2.70E-05	n/a	U
S11V005169		15046-84-1	Iodine-129	uCi/g	99.1	<1.01E-06	<2.29E-06	n/a	n/a	n/a	n/a	2.29E-06	n/a	U
S11V005171	A	7440-36-0	Antimony	ug/g	103	<2.00E-04	0.196	n/a	n/a	n/a	n/a	6.24E-03	n/a	
S11V005171	A	SN-117	Tin-117	ug/g	104	<1.00E-03	<0.0312	n/a	n/a	n/a	n/a	0.0312	n/a	U
S11V005171	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.62E-03	n/a	n/a	n/a	n/a	6.24E-04	n/a	E
S11V005173	W	GLYCOLAT	Glycolate	ug/g	98.9	<9.37E-03	<0.0928	n/a	n/a	n/a	n/a	0.0928	n/a	U
S11V005173	W	71-50-1	Acetate	ug/g	101	<6.04E-03	<0.0598	n/a	n/a	n/a	n/a	0.0598	n/a	U
S11V005173	W	FORMATE	Formate	ug/g	100	0.0124	0.246	n/a	n/a	n/a	n/a	0.0463	n/a	CB
S11V005173	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
S11V005174	A	7429-90-5	Aluminum	ug/g	89.5	<0.0300	6.89E+03	n/a	n/a	n/a	n/a	6.80	n/a	
S11V005174	A	7440-42-8	Boron	ug/g	85.7	<0.0300	<6.80	n/a	n/a	n/a	n/a	6.80	n/a	U
S11V005174	A	7440-39-3	Barium	ug/g	89.8	<3.00E-03	57.8	n/a	n/a	n/a	n/a	0.680	n/a	N
S11V005174	A	7440-41-7	Beryllium	ug/g	94.9	<1.00E-03	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S11V005174	A	7440-70-2	Calcium	ug/g	82.3	0.798	8.60E+03	n/a	n/a	n/a	n/a	11.3	n/a	

NA = Not Analyzed, ND = Not Detected

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B - Estimated
E - Estimated by Interference
B - Blank Contamination
U - Less Than Detection Limit

C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB33
Sample Depth: 117'-119'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005174	A	7440-45-1	Cerium	ug/g	91.5	<0.0300	22.5	n/a	n/a	n/a	n/a	6.80	n/a	B
S11V005174	A	7440-48-4	Cobalt	ug/g	85.7	<0.0100	3.29	n/a	n/a	n/a	n/a	2.27	n/a	B
S11V005174	A	7440-47-3	Chromium	ug/g	85.2	<5.00E-03	13.1	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005174	A	7440-50-8	Copper	ug/g	95.4	<5.00E-03	9.56	n/a	n/a	n/a	n/a	1.13	n/a	B
S11V005174	A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	1.52E+04	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005174	A	7440-09-7	Potassium	ug/g	79.1	<0.500	974	n/a	n/a	n/a	n/a	113	n/a	B
S11V005174	A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	10.0	n/a	n/a	n/a	n/a	0.680	n/a	
S11V005174	A	7439-93-2	Lithium	ug/g	97.9	<3.00E-03	9.62	n/a	n/a	n/a	n/a	0.680	n/a	
S11V005174	A	7439-95-4	Magnesium	ug/g	86.4	<0.0500	4.74E+03	n/a	n/a	n/a	n/a	11.3	n/a	
S11V005174	A	7439-96-5	Manganese	ug/g	84.3	<3.00E-03	252	n/a	n/a	n/a	n/a	0.680	n/a	
S11V005174	A	7439-98-7	Molybdenum	ug/g	87.2	<0.0200	<4.53	n/a	n/a	n/a	n/a	4.53	n/a	U
S11V005174	A	7440-23-5	Sodium	ug/g	98.8	<0.100	252	n/a	n/a	n/a	n/a	22.7	n/a	
S11V005174	A	7440-02-0	Nickel	ug/g	84.8	<0.0200	15.7	n/a	n/a	n/a	n/a	4.53	n/a	B
S11V005174	A	7723-14-0	Phosphorus	ug/g	87.8	<0.0500	465	n/a	n/a	n/a	n/a	11.3	n/a	
S11V005174	A	7704-34-9	Sulfur	ug/g	87.6	<0.100	52.5	n/a	n/a	n/a	n/a	22.7	n/a	B
S11V005174	A	7440-21-3	Silicon	ug/g	91.9	<0.0300	82.5	n/a	n/a	n/a	n/a	6.80	n/a	N
S11V005174	A	7440-24-6	Strontium	ug/g	89.9	<3.00E-03	30.2	n/a	n/a	n/a	n/a	0.680	n/a	N
S11V005174	A	7440-32-6	Titanium	ug/g	86.1	<5.00E-03	772	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005174	A	7440-62-2	Vanadium	ug/g	88.2	<5.00E-03	29.2	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005174	A	7440-65-5	Yttrium	ug/g	84.7	<2.00E-03	5.73	n/a	n/a	n/a	n/a	0.453	n/a	
S11V005174	A	7440-66-6	Zinc	ug/g	87.6	8.03E-03	31.9	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005174	A	7440-67-7	Zirconium	ug/g	85.9	<5.00E-03	6.97	n/a	n/a	n/a	n/a	1.13	n/a	BN
S11V005174	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.17E-05	n/a	n/a	n/a	n/a	3.17E-05	n/a	U
S11V005174	A	TH-232	Thorium-232	ug/g	95.8	<2.50E-04	3.40	n/a	n/a	n/a	n/a	2.27E-03	n/a	
S11V005174	A	13968-55-3	Uranium-233	ug/g	105	<1.00E-04	<9.06E-04	n/a	n/a	n/a	n/a	9.06E-04	n/a	U
S11V005174	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	9.33E-05	n/a	n/a	n/a	n/a	2.27E-05	n/a	
S11V005174	A	15117-96-1	Uranium-235	ug/g	94.4	<5.00E-06	0.0139	n/a	n/a	n/a	n/a	4.53E-05	n/a	
S11V005174	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	4.43E-04	n/a	n/a	n/a	n/a	1.81E-05	n/a	

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB33
Sample Depth: 117'-119'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005174	A	13994-20-2	Neptunium-237	ug/g	97.1	<5.00E-05	<4.53E-04	n/a	n/a	n/a	n/a	4.53E-04	n/a	U
S11V005174	A	U-238	Uranium-238	ug/g	94.9	<2.50E-04	1.89	n/a	n/a	n/a	n/a	2.27E-03	n/a	
S11V005174	A	7440-22-4	Silver	ug/g	107	1.92E-03	0.0394	n/a	n/a	n/a	n/a	9.06E-03	n/a	CB
S11V005174	A	7440-38-2	Arsenic	ug/g	75.4	<0.0210	3.71	n/a	n/a	n/a	n/a	0.190	n/a	N
S11V005174	A	7440-43-9	Cadmium	ug/g	107	<3.00E-03	0.0476	n/a	n/a	n/a	n/a	0.0272	n/a	B
S11V005174	A	7439-92-1	Lead	ug/g	100	<7.50E-03	3.99	n/a	n/a	n/a	n/a	0.0680	n/a	
S11V005174	A	7782-49-2	Selenium	ug/g	98.9	<0.0675	<0.612	n/a	n/a	n/a	n/a	0.612	n/a	U
S11V005174	A	7440-28-0	Thallium	ug/g	110	8.31E-03	0.136	n/a	n/a	n/a	n/a	0.0181	n/a	B
S11V005176	A	14133-76-7	Technetium-99	ug/g	109	<6.00E-05	<5.53E-04	n/a	n/a	n/a	n/a	5.53E-04	n/a	U
S11V005177	W	14762-75-5	Carbon-14	uCi/g	89.5	<6.13E-07	1.87E-06	n/a	n/a	n/a	n/a	6.10E-07	42.431	
S11V005177	W	10028-17-8	Tritium	uCi/g	101	<1.91E-06	<2.13E-06	n/a	n/a	n/a	n/a	2.13E-06	n/a	U
S11V005178	E	CM-243/244	Curium-243/244	uCi/g	n/a	<1.96E-08	<1.73E-08	n/a	n/a	n/a	n/a	1.73E-08	n/a	U
S11V005178	E	14596-10-2	Americium-241	uCi/g	95.6	<3.21E-08	<2.61E-08	n/a	n/a	n/a	n/a	2.61E-08	n/a	U
S11V005178	E	15510-73-3	Curium-242	uCi/g	n/a	<1.15E-08	<1.66E-08	n/a	n/a	n/a	n/a	1.66E-08	n/a	U
S11V005178	E	PU-239/240	Plutonium-239/240	uCi/g	106	<4.83E-08	<3.29E-08	n/a	n/a	n/a	n/a	3.29E-08	n/a	U
S11V005178	E	13981-16-3	Plutonium-238	uCi/g	n/a	<4.05E-08	<3.17E-08	n/a	n/a	n/a	n/a	3.17E-08	n/a	U
S11V005179	E	SR-89/90	Strontium-89/90	uCi/g	102	2.94E-07	<5.55E-07	n/a	n/a	n/a	n/a	5.55E-07	n/a	U
S11V005180	E	13981-37-8	Nickel-63	uCi/g	100	<7.87E-06	<7.89E-06	n/a	n/a	n/a	n/a	7.89E-06	n/a	U
S11V005181	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.33E-06	<1.89E-06	n/a	n/a	n/a	n/a	1.89E-06	n/a	U
S11V005680		%WATERA	%WATER-APD	%	n/a	n/a	6.000	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005680		WT%SOLID	Weight percent solids	%	n/a	n/a	94.0	n/a	n/a	n/a	n/a	0.0100	n/a	

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB34
Sample Depth: 157'- 159'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005187		13966-00-2	Potassium-40	uCi/g	n/a	<3.41E-06	1.39E-05	n/a	n/a	n/a	n/a	2.62E-06	5.24	
S11V005187		10198-40-0	Cobalt-60	uCi/g	94.4	<9.28E-08	<9.29E-08	n/a	n/a	n/a	n/a	9.29E-08	n/a	U
S11V005187		14234-35-6	Antimony-125	uCi/g	n/a	<3.18E-07	<2.60E-07	n/a	n/a	n/a	n/a	2.60E-07	n/a	U
S11V005187		13967-70-9	Cesium-134	uCi/g	n/a	<6.52E-07	<5.58E-07	n/a	n/a	n/a	n/a	5.58E-07	n/a	U
S11V005187		10045-97-3	Cesium-137	uCi/g	93.8	<1.88E-07	<1.45E-07	n/a	n/a	n/a	n/a	1.45E-07	n/a	U
S11V005187		14683-23-9	Europium-152	uCi/g	n/a	<3.25E-07	<2.24E-07	n/a	n/a	n/a	n/a	2.24E-07	n/a	U
S11V005187		15585-10-1	Europium-154	uCi/g	n/a	<2.93E-07	<2.28E-07	n/a	n/a	n/a	n/a	2.28E-07	n/a	U
S11V005187		14391-16-3	Europium-155	uCi/g	n/a	<3.97E-07	<3.16E-07	n/a	n/a	n/a	n/a	3.16E-07	n/a	U
S11V005187		14913-50-9	Thallium-208	uCi/g	n/a	<1.20E-07	2.74E-07	n/a	n/a	n/a	n/a	1.02E-07	11.11	
S11V005187		14913-49-6	Bismuth-212	uCi/g	n/a	<1.47E-06	2.24E-06	n/a	n/a	n/a	n/a	1.01E-06	14.78	
S11V005187		15092-94-1	Lead-212	uCi/g	n/a	<1.56E-07	7.43E-07	n/a	n/a	n/a	n/a	1.43E-07	6.20	
S11V005187		14733-03-0	Bismuth-214	uCi/g	n/a	<2.59E-07	6.59E-07	n/a	n/a	n/a	n/a	2.04E-07	8.94	
S11V005187		15067-28-4	Lead-214	uCi/g	n/a	<2.30E-07	8.12E-07	n/a	n/a	n/a	n/a	2.01E-07	8.91	
S11V005187		14331-83-0	Actinium-228	uCi/g	n/a	1.01E-06	1.75E-06	n/a	n/a	n/a	n/a	3.00E-07	7.71	B
S11V005187		14274-82-9	Thorium-228	uCi/g	n/a	<4.21E-05	<4.90E-05	n/a	n/a	n/a	n/a	4.90E-05	n/a	U
S11V005187		15065-10-8	Thorium-234	uCi/g	n/a	<7.44E-06	<1.13E-04	n/a	n/a	n/a	n/a	1.13E-04	n/a	U
S11V005187		15046-84-1	Iodine-129	uCi/g	99.1	<1.01E-06	<9.77E-07	n/a	n/a	n/a	n/a	9.77E-07	n/a	U
S11V005189	A	7440-36-0	Antimony	ug/g	103	<2.00E-04	0.208	n/a	n/a	n/a	n/a	7.12E-03	n/a	
S11V005189	A	SN-117	Tin-117	ug/g	104	<1.00E-03	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S11V005189	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	3.20E-03	n/a	n/a	n/a	n/a	7.12E-04	n/a	E
S11V005191	W	GLYCOLAT	Glycolate	ug/g	98.9	<9.37E-03	<0.0936	n/a	n/a	n/a	n/a	0.0936	n/a	U
S11V005191	W	71-50-1	Acetate	ug/g	101	<6.04E-03	<0.0603	n/a	n/a	n/a	n/a	0.0603	n/a	U
S11V005191	W	FORMATE	Formate	ug/g	100	0.0124	0.189	n/a	n/a	n/a	n/a	0.0466	n/a	CB
S11V005191	W	338-70-5	Oxalate	ug/g	101	<0.0231	0.234	n/a	n/a	n/a	n/a	0.231	n/a	B
S11V005192	A	7429-90-5	Aluminum	ug/g	89.5	<0.0300	7.45E+03	n/a	n/a	n/a	n/a	6.79	n/a	
S11V005192	A	7440-42-8	Boron	ug/g	85.7	<0.0300	<6.79	n/a	n/a	n/a	n/a	6.79	n/a	U
S11V005192	A	7440-39-3	Barium	ug/g	89.8	<3.00E-03	72.9	n/a	n/a	n/a	n/a	0.679	n/a	N
S11V005192	A	7440-41-7	Beryllium	ug/g	94.9	<1.00E-03	<0.226	n/a	n/a	n/a	n/a	0.226	n/a	U

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C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB34
Sample Depth: 157'- 159'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005192	A	7440-70-2	Calcium	ug/g	82.3	0.798	7.78E+03	n/a	n/a	n/a	n/a	11.3	n/a	
S11V005192	A	7440-45-1	Cerium	ug/g	91.5	<0.0300	21.0	n/a	n/a	n/a	n/a	6.79	n/a	B
S11V005192	A	7440-48-4	Cobalt	ug/g	85.7	<0.0100	4.80	n/a	n/a	n/a	n/a	2.26	n/a	B
S11V005192	A	7440-47-3	Chromium	ug/g	85.2	<5.00E-03	26.4	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005192	A	7440-50-8	Copper	ug/g	95.4	<5.00E-03	8.95	n/a	n/a	n/a	n/a	1.13	n/a	B
S11V005192	A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	1.59E+04	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005192	A	7440-09-7	Potassium	ug/g	79.1	<0.500	1.14E+03	n/a	n/a	n/a	n/a	113	n/a	
S11V005192	A	7439-91-0	Lanthanum	ug/g	90.5	<3.00E-03	8.99	n/a	n/a	n/a	n/a	0.679	n/a	
S11V005192	A	7439-93-2	Lithium	ug/g	97.9	<3.00E-03	10.2	n/a	n/a	n/a	n/a	0.679	n/a	
S11V005192	A	7439-95-4	Magnesium	ug/g	86.4	<0.0500	5.16E+03	n/a	n/a	n/a	n/a	11.3	n/a	
S11V005192	A	7439-96-5	Manganese	ug/g	84.3	<3.00E-03	271	n/a	n/a	n/a	n/a	0.679	n/a	
S11V005192	A	7439-98-7	Molybdenum	ug/g	87.2	<0.0200	<4.53	n/a	n/a	n/a	n/a	4.53	n/a	U
S11V005192	A	7440-23-5	Sodium	ug/g	98.8	<0.100	244	n/a	n/a	n/a	n/a	22.6	n/a	
S11V005192	A	7440-02-0	Nickel	ug/g	84.8	<0.0200	18.2	n/a	n/a	n/a	n/a	4.53	n/a	B
S11V005192	A	7723-14-0	Phosphorus	ug/g	87.8	<0.0500	457	n/a	n/a	n/a	n/a	11.3	n/a	
S11V005192	A	7704-34-9	Sulfur	ug/g	87.6	<0.100	59.8	n/a	n/a	n/a	n/a	22.6	n/a	B
S11V005192	A	7440-21-3	Silicon	ug/g	91.9	<0.0300	86.4	n/a	n/a	n/a	n/a	6.79	n/a	N
S11V005192	A	7440-24-6	Strontium	ug/g	89.9	<3.00E-03	35.0	n/a	n/a	n/a	n/a	0.679	n/a	N
S11V005192	A	7440-32-6	Titanium	ug/g	86.1	<5.00E-03	812	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005192	A	7440-62-2	Vanadium	ug/g	88.2	<5.00E-03	32.9	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005192	A	7440-65-5	Yttrium	ug/g	84.7	<2.00E-03	5.25	n/a	n/a	n/a	n/a	0.453	n/a	
S11V005192	A	7440-66-6	Zinc	ug/g	87.6	8.03E-03	33.0	n/a	n/a	n/a	n/a	1.13	n/a	
S11V005192	A	7440-67-7	Zirconium	ug/g	85.9	<5.00E-03	6.19	n/a	n/a	n/a	n/a	1.13	n/a	BN
S11V005192	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.17E-05	n/a	n/a	n/a	n/a	3.17E-05	n/a	U
S11V005192	A	TH-232	Thorium-232	ug/g	95.8	<2.50E-04	2.93	n/a	n/a	n/a	n/a	2.26E-03	n/a	
S11V005192	A	13968-55-3	Uranium-233	ug/g	105	<1.00E-04	<9.06E-04	n/a	n/a	n/a	n/a	9.06E-04	n/a	U
S11V005192	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	2.69E-05	n/a	n/a	n/a	n/a	2.26E-05	n/a	
S11V005192	A	15117-96-1	Uranium-235	ug/g	94.4	<5.00E-06	2.92E-03	n/a	n/a	n/a	n/a	4.53E-05	n/a	

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B - Estimated
E - Estimated by Interference
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U - Less Than Detection Limit

C Farm WMC 2011-C8104
Data Summary Report

Sample Group: 20111030
Core Number: C8104
Customer Sample ID: B2FB34
Sample Depth: 157'- 159'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005192	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.81E-05	n/a	n/a	n/a	n/a	1.81E-05	n/a	U
S11V005192	A	13994-20-2	Neptunium-237	ug/g	97.1	<5.00E-05	<4.53E-04	n/a	n/a	n/a	n/a	4.53E-04	n/a	U
S11V005192	A	U-238	Uranium-238	ug/g	94.9	<2.50E-04	0.425	n/a	n/a	n/a	n/a	2.26E-03	n/a	
S11V005192	A	7440-22-4	Silver	ug/g	107	1.92E-03	0.0333	n/a	n/a	n/a	n/a	9.06E-03	n/a	CB
S11V005192	A	7440-38-2	Arsenic	ug/g	75.4	<0.0210	3.06	n/a	n/a	n/a	n/a	0.190	n/a	N
S11V005192	A	7440-43-9	Cadmium	ug/g	107	<3.00E-03	0.0375	n/a	n/a	n/a	n/a	0.0272	n/a	B
S11V005192	A	7439-92-1	Lead	ug/g	100	<7.50E-03	3.31	n/a	n/a	n/a	n/a	0.0679	n/a	
S11V005192	A	7782-49-2	Selenium	ug/g	98.9	<0.0675	<0.611	n/a	n/a	n/a	n/a	0.611	n/a	U
S11V005192	A	7440-28-0	Thallium	ug/g	110	8.31E-03	0.134	n/a	n/a	n/a	n/a	0.0181	n/a	B
S11V005194	A	14133-76-7	Technetium-99	ug/g	109	<6.00E-05	<5.59E-04	n/a	n/a	n/a	n/a	5.59E-04	n/a	U
S11V005195	W	14762-75-5	Carbon-14	uCi/g	89.5	<6.13E-07	<9.52E-07	n/a	n/a	n/a	n/a	9.52E-07	n/a	U
S11V005195	W	10028-17-8	Tritium	uCi/g	94.1	<1.91E-06	5.16E-06	n/a	n/a	n/a	n/a	1.41E-06	37.709	
S11V005196	E	CM-243/244	Curium-243/244	uCi/g	n/a	<1.96E-08	<4.28E-08	n/a	n/a	n/a	n/a	4.28E-08	n/a	U
S11V005196	E	14596-10-2	Americium-241	uCi/g	95.6	<3.21E-08	<4.47E-08	n/a	n/a	n/a	n/a	4.47E-08	n/a	U
S11V005196	E	15510-73-3	Curium-242	uCi/g	n/a	<1.15E-08	<2.79E-08	n/a	n/a	n/a	n/a	2.79E-08	n/a	U
S11V005196	E	PU-239/240	Plutonium-239/240	uCi/g	106	<4.83E-08	<4.09E-08	n/a	n/a	n/a	n/a	4.09E-08	n/a	U
S11V005196	E	13981-16-3	Plutonium-238	uCi/g	n/a	<4.05E-08	<5.26E-08	n/a	n/a	n/a	n/a	5.26E-08	n/a	U
S11V005197	E	SR-89/90	Strontium-89/90	uCi/g	102	2.94E-07	<4.78E-07	n/a	n/a	n/a	n/a	4.78E-07	n/a	U
S11V005198	E	13981-37-8	Nickel-63	uCi/g	100	<7.87E-06	6.71E-06	n/a	n/a	n/a	n/a	4.86E-06	75.084	
S11V005199	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.33E-06	1.64E-06	n/a	n/a	n/a	n/a	1.40E-06	214.159	E
S11V005681		%WATERA	%WATER-APD	%	n/a	n/a	5.000	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005681		WT%SOLID	Weight percent solids	%	n/a	n/a	95.0	n/a	n/a	n/a	n/a	0.0100	n/a	

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR7
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005857		%WATERA	%WATER-APD	%	n/a	n/a	6.230	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005857		57-12-5	Cyanide	ug/g	93.7	<0.0370	<0.480	<0.479	n/a	n/a	101	0.480	n/a	U
S11V005857		WT%SOLID	Weight percent solids	%	n/a	n/a	93.8	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005857		7439-97-6	Mercury	ug/g	105	<1.10E-05	<8.76E-04	n/a	n/a	n/a	97.7	8.76E-04	n/a	U
S11V005857		PH	pH	unitless	n/a	n/a	8.28	8.29	8.28	0.121	n/a	0.0100	n/a	
S11V005858		13966-00-2	Potassium-40	uCi/g	n/a	<8.09E-06	1.32E-05	9.17E-06	1.12E-05	35.7	n/a	3.32E-06	6.48	
S11V005858		10198-40-0	Cobalt-60	uCi/g	92.5	<2.46E-07	<1.14E-07	<1.02E-07	n/a	n/a	n/a	1.14E-07	n/a	U
S11V005858		14234-35-6	Antimony-125	uCi/g	n/a	<6.20E-07	<2.95E-07	<2.73E-07	n/a	n/a	n/a	2.95E-07	n/a	U
S11V005858		10045-97-3	Cesium-137	uCi/g	91.7	<4.67E-07	4.62E-06	4.42E-06	4.52E-06	4.28	n/a	1.24E-07	1.37	
S11V005858		14683-23-9	Europium-152	uCi/g	n/a	<6.90E-07	<2.18E-07	<3.03E-07	n/a	n/a	n/a	2.18E-07	n/a	U
S11V005858		15585-10-1	Europium-154	uCi/g	n/a	<8.06E-07	<3.06E-07	<2.65E-07	n/a	n/a	n/a	3.06E-07	n/a	U
S11V005858		14391-16-3	Europium-155	uCi/g	n/a	<7.61E-07	<2.65E-07	<2.33E-07	n/a	n/a	n/a	2.65E-07	n/a	U
S11V005858		14913-50-9	Thallium-208	uCi/g	n/a	<3.12E-07	1.17E-06	2.31E-07	6.99E-07	134	n/a	1.10E-07	4.49	
S11V005858		14913-49-6	Bismuth-212	uCi/g	n/a	<4.65E-06	1.50E-06	n/a	n/a	n/a	n/a	1.40E-06	35.92	
S11V005858		15092-94-1	Lead-212	uCi/g	n/a	<4.43E-07	8.43E-07	1.64E-06	1.24E-06	64.5	n/a	1.76E-07	6.25	
S11V005858		14733-03-0	Bismuth-214	uCi/g	n/a	<5.46E-07	8.67E-07	8.99E-07	8.83E-07	3.63	n/a	2.49E-07	7.81	
S11V005858		15067-28-4	Lead-214	uCi/g	n/a	<6.21E-07	2.60E-06	2.40E-06	2.50E-06	8.05	n/a	2.36E-07	3.99	
S11V005858		14331-83-0	Actinium-228	uCi/g	n/a	n/a	8.25E-07	5.30E-07	6.78E-07	43.5	n/a	4.98E-07	22.39	
S11V005858		14274-82-9	Thorium-228	uCi/g	n/a	<1.16E-04	<3.86E-05	<4.06E-05	n/a	n/a	n/a	3.86E-05	n/a	U
S11V005858		15065-10-8	Thorium-234	uCi/g	n/a	<1.45E-05	<2.83E-06	<3.55E-06	n/a	n/a	n/a	2.83E-06	n/a	U
S11V005858		15046-84-1	Iodine-129	uCi/g	94.0	<1.96E-06	<1.26E-06	<9.37E-07	n/a	n/a	n/a	1.26E-06	n/a	U
S11V005859	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<27.1	<28.8	n/a	n/a	n/a	n/a	28.8	n/a	U
S11V005859	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<4.48	<4.77	n/a	n/a	n/a	n/a	4.77	n/a	U
S11V005859	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<7.60	<8.09	n/a	n/a	n/a	n/a	8.09	n/a	U
S11V005859	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<18.1	<19.3	n/a	n/a	n/a	n/a	19.3	n/a	U
S11V005859	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<10.2	<10.9	n/a	n/a	n/a	n/a	10.9	n/a	U
S11V005859	O	11097-69-1	Aroclor 1254	ug/kg	93.1	<6.56	<6.99	n/a	n/a	n/a	95.9	6.99	n/a	U
S11V005859	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<10.6	<11.3	n/a	n/a	n/a	n/a	11.3	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR7
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005860	A	7440-36-0	Antimony	ug/g	101	<2.00E-04	0.263	0.270	0.266	2.81	103	6.06E-03	n/a	
S11V005860	A	SN-117	Tin-117	ug/g	110	<1.00E-03	<0.0303	<0.0301	n/a	n/a	105	0.0303	n/a	U
S11V005860	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.85E-03	2.11E-03	1.98E-03	12.9	n/a	6.06E-04	n/a	E
S11V005861	W	16984-48-8	Fluoride	ug/g	99.9	<1.61E-03	0.557	1.29	0.926	79.7	75.8	0.0157	n/a	M
S11V005861	W	GLYCOLAT	Glycolate	ug/g	109	<9.37E-03	<0.0914	<0.0920	n/a	n/a	99.1	0.0914	n/a	U
S11V005861	W	71-50-1	Acetate	ug/g	107	<6.04E-03	<0.0589	<0.0593	n/a	n/a	99.0	0.0589	n/a	U
S11V005861	W	FORMATE	Formate	ug/g	98.7	<4.67E-03	<0.0456	0.160	n/a	n/a	92.6	0.0456	n/a	U
S11V005861	W	16887-00-6	Chloride	ug/g	96.6	<9.98E-03	0.228	0.328	0.278	35.9	93.2	0.0974	n/a	B
S11V005861	W	14797-65-0	Nitrite	ug/g	102	0.0348	2.05	3.42	2.73	50.2	98.1	0.187	n/a	B
S11V005861	W	14808-79-8	Sulfate	ug/g	100	<0.0187	1.86	3.10	2.48	50.1	91.8	0.182	n/a	B
S11V005861	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.225	0.282	n/a	n/a	78.9	0.225	n/a	U
S11V005861	W	24959-67-9	Bromide	ug/g	83.4	<0.0580	<0.566	n/a	n/a	n/a	79.7	0.566	n/a	U
S11V005861	W	14797-55-8	Nitrate	ug/g	103	<0.0208	4.18	5.17	4.67	21.1	99.4	0.203	n/a	
S11V005861	W	14265-44-2	Phosphate	ug/g	93.8	<0.0167	4.57	5.58	5.08	19.8	47.4	0.163	n/a	N
S11V005862	A	7429-90-5	Aluminum	ug/g	86.2	<0.0300	8.27E+03	8.68E+03	8.48E+03	4.89	1.86E+03	4.17	n/a	
S11V005862	A	7440-39-3	Barium	ug/g	92.5	<3.00E-03	81.5	81.6	81.6	0.0495	107	0.417	n/a	
S11V005862	A	7440-41-7	Beryllium	ug/g	97.4	<1.00E-03	0.323	0.332	0.327	2.88	101	0.139	n/a	B
S11V005862	A	7440-69-9	Bismuth	ug/g	89.0	<0.100	31.7	34.9	33.3	9.49	106	13.9	n/a	B
S11V005862	A	7440-70-2	Calcium	ug/g	81.2	0.0812	9.00E+03	8.45E+03	8.73E+03	6.23	523	6.95	n/a	
S11V005862	A	7440-45-1	Cerium	ug/g	95.3	<0.0300	22.7	24.3	23.5	7.06	104	4.17	n/a	B
S11V005862	A	7440-48-4	Cobalt	ug/g	87.0	<0.0100	9.01	8.47	8.74	6.13	104	1.39	n/a	B
S11V005862	A	7440-47-3	Chromium	ug/g	87.3	<5.00E-03	9.29	9.88	9.59	6.18	106	0.695	n/a	
S11V005862	A	7440-50-8	Copper	ug/g	96.5	<5.00E-03	13.2	14.4	13.8	8.68	104	0.695	n/a	
S11V005862	A	7439-89-6	Iron	ug/g	89.6	<5.00E-03	2.28E+04	2.41E+04	2.34E+04	5.59	2.63E+03	0.695	n/a	
S11V005862	A	7440-09-7	Potassium	ug/g	84.7	<0.500	1.60E+03	1.64E+03	1.62E+03	2.52	549	69.5	n/a	
S11V005862	A	7439-91-0	Lanthanum	ug/g	95.8	<3.00E-03	11.7	12.8	12.2	8.95	105	0.417	n/a	
S11V005862	A	7439-93-2	Lithium	ug/g	96.0	<3.00E-03	8.49	8.46	8.48	0.378	105	0.417	n/a	
S11V005862	A	7439-95-4	Magnesium	ug/g	89.2	<0.0500	5.46E+03	5.53E+03	5.49E+03	1.31	-435	6.95	n/a	

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR7
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005862	A	7439-96-5	Manganese	ug/g	86.4	<3.00E-03	373	374	373	0.234	75.8	0.417	n/a	
S11V005862	A	7439-98-7	Molybdenum	ug/g	84.3	<0.0200	<2.78	<2.79	n/a	n/a	90.6	2.78	n/a	U
S11V005862	A	7440-23-5	Sodium	ug/g	95.9	<0.100	265	304	284	13.8	628	13.9	n/a	
S11V005862	A	7440-00-8	Neodymium	ug/g	94.3	<0.0100	11.6	12.4	12.0	6.98	95.5	1.39	n/a	B
S11V005862	A	7440-02-0	Nickel	ug/g	87.6	<0.0200	13.0	13.8	13.4	5.54	92.5	2.78	n/a	B
S11V005862	A	7723-14-0	Phosphorus	ug/g	86.0	<0.0500	865	923	894	6.42	335	6.95	n/a	
S11V005862	A	7704-34-9	Sulfur	ug/g	83.6	<0.100	69.1	58.5	63.8	16.6	59.0	13.9	n/a	BN
S11V005862	A	7440-21-3	Silicon	ug/g	80.6	<0.0300	106	104	105	2.19	-19.8	4.17	n/a	N
S11V005862	A	7440-19-9	Samarium	ug/g	97.4	<0.0200	2.95	<2.79	n/a	n/a	93.0	2.78	n/a	B
S11V005862	A	7440-24-6	Strontium	ug/g	93.3	<3.00E-03	31.2	31.0	31.1	0.680	107	0.417	n/a	
S11V005862	A	7440-32-6	Titanium	ug/g	85.8	<5.00E-03	1.37E+03	1.55E+03	1.46E+03	12.2	360	0.695	n/a	
S11V005862	A	7440-62-2	Vanadium	ug/g	89.4	<5.00E-03	48.4	54.6	51.5	12.1	119	0.695	n/a	
S11V005862	A	7440-33-7	Tungsten	ug/g	93.6	<0.200	31.8	<27.9	n/a	n/a	78.6	27.8	n/a	B
S11V005862	A	7440-65-5	Yttrium	ug/g	90.6	<2.00E-03	9.63	10.5	10.1	8.92	93.8	0.278	n/a	
S11V005862	A	7440-66-6	Zinc	ug/g	87.4	<5.00E-03	44.6	47.1	45.8	5.53	100	0.695	n/a	
S11V005862	A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	13.7	8.51	11.1	47.0	-5.72	0.695	n/a	NM
S11V005862	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.25E-05	<3.25E-05	n/a	n/a	n/a	3.25E-05	n/a	U
S11V005862	A	TH-232	Thorium-232	ug/g	97.4	<2.50E-04	3.25	3.54	3.40	8.56	108	2.32E-03	n/a	
S11V005862	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<9.27E-04	<9.30E-04	n/a	n/a	98.8	9.27E-04	n/a	U
S11V005862	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.32E-05	<2.32E-05	n/a	n/a	n/a	2.32E-05	n/a	U
S11V005862	A	15117-96-1	Uranium-235	ug/g	92.9	<5.00E-06	3.85E-03	3.44E-03	3.64E-03	11.4	94.7	4.64E-05	n/a	
S11V005862	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.85E-05	1.97E-05	n/a	n/a	n/a	1.85E-05	n/a	U
S11V005862	A	13994-20-2	Neptunium-237	ug/g	98.2	<5.00E-05	<4.64E-04	<4.65E-04	n/a	n/a	101	4.64E-04	n/a	U
S11V005862	A	U-238	Uranium-238	ug/g	96.6	<2.50E-04	0.534	0.490	0.512	8.62	97.9	2.32E-03	n/a	
S11V005862	A	7440-22-4	Silver	ug/g	95.0	<4.00E-03	0.0459	0.0537	0.0498	15.6	93.6	0.0371	n/a	B
S11V005862	A	7440-38-2	Arsenic	ug/g	116	0.0981	6.44	6.36	6.40	1.23	106	0.292	n/a	
S11V005862	A	7440-43-9	Cadmium	ug/g	101	<3.00E-03	0.107	0.108	0.107	0.682	99.7	0.0278	n/a	B
S11V005862	A	7439-92-1	Lead	ug/g	96.4	<7.50E-03	6.03	6.08	6.05	0.784	121	0.0695	n/a	

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E - Estimated by Interference
U - Less Than Detection Limit

C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR7
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005862	A	7782-49-2	Selenium	ug/g	87.1	<0.0675	<0.626	<0.627	n/a	n/a	90.1	0.626	n/a	U
S11V005862	A	7440-28-0	Thallium	ug/g	101	0.0281	0.304	0.319	0.311	4.75	103	0.0185	n/a	C
S11V005863	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-05	<5.74E-04	<5.50E-04	n/a	n/a	110	5.74E-04	n/a	U
S11V005864	W	14762-75-5	Carbon-14	uCi/g	96.6	<6.17E-07	<6.15E-07	<7.79E-07	n/a	n/a	93.8	6.15E-07	n/a	U
S11V005864	W	10028-17-8	Tritium	uCi/g	99.7	<2.09E-06	<2.23E-06	<2.08E-06	n/a	n/a	84.5	2.23E-06	n/a	U
S11V005865	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.04E-07	<1.12E-08	<2.13E-08	n/a	n/a	n/a	1.12E-08	n/a	U
S11V005865	E	14596-10-2	Americium-241	uCi/g	96.4	<4.01E-07	<3.35E-08	<2.91E-08	n/a	n/a	n/a	3.35E-08	n/a	U
S11V005865	E	15510-73-3	Curium-242	uCi/g	n/a	<1.67E-08	<1.46E-08	<2.79E-08	n/a	n/a	n/a	1.46E-08	n/a	U
S11V005865	E	PU-239/240	Plutonium-239/240	uCi/g	108	<6.88E-08	<5.06E-08	4.71E-08	n/a	n/a	n/a	5.06E-08	n/a	U
S11V005865	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-08	<3.97E-08	<3.66E-08	n/a	n/a	n/a	3.97E-08	n/a	U
S11V005866	E	SR-89/90	Strontium-89/90	uCi/g	96.0	<1.70E-07	2.11E-06	2.01E-06	2.06E-06	4.84	n/a	1.76E-07	19.377	
S11V005867	E	13981-37-8	Nickel-63	uCi/g	93.1	<4.65E-06	<3.97E-06	<3.32E-06	n/a	n/a	n/a	3.97E-06	n/a	U
S11V005868	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.17E-06	<1.22E-06	<1.10E-06	n/a	n/a	n/a	1.22E-06	n/a	U
S11V006144	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	89.1	<77.4	<76.9	n/a	n/a	n/a	85.5	76.9	n/a	U
S11V006144	O	95-50-1	1,2-Dichlorobenzene	ug/kg	88.0	<101	<100	n/a	n/a	n/a	81.6	100	n/a	U
S11V006144	O	121-14-2	2,4-Dinitrotoluene	ug/kg	98.6	<38.1	<37.9	n/a	n/a	n/a	95.4	37.9	n/a	U
S11V006144	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	94.5	<44.0	<43.7	n/a	n/a	n/a	103	43.7	n/a	U
S11V006144	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	89.4	<49.5	<49.2	n/a	n/a	n/a	97.0	49.2	n/a	U
S11V006144	O	95-48-7	2-Methylphenol	ug/kg	89.9	<57.5	<57.2	n/a	n/a	n/a	88.7	57.2	n/a	U
S11V006144	O	88-75-5	2-Nitrophenol	ug/kg	90.2	<53.7	<53.4	n/a	n/a	n/a	90.4	53.4	n/a	U
S11V006144	O	65794-96-9	3 &4 Methylphenol	ug/kg	90.4	<51.4	<51.1	n/a	n/a	n/a	91.2	51.1	n/a	U
S11V006144	O	83-32-9	Acenaphthene	ug/kg	93.0	<17.6	<17.5	n/a	n/a	n/a	93.1	17.5	n/a	U
S11V006144	O	56-55-3	Benzo(a)anthracene	ug/kg	112	<37.8	<37.6	n/a	n/a	n/a	109	37.6	n/a	U
S11V006144	O	205-99-2	Benzo(b)fluoranthene	ug/kg	117	<48.9	<48.6	n/a	n/a	n/a	119	48.6	n/a	U
S11V006144	O	50-32-8	Benzo(a)pyrene	ug/kg	115	<41.2	<41.0	n/a	n/a	n/a	110	41.0	n/a	U
S11V006144	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	129	<590	<587	n/a	n/a	n/a	129	587	n/a	U
S11V006144	O	207-08-9	Benzo(k)fluoranthene	ug/kg	111	<39.1	<38.9	n/a	n/a	n/a	112	38.9	n/a	U
S11V006144	O	85-68-7	Butylbenzylphthalate	ug/kg	115	<50.0	<49.7	n/a	n/a	n/a	118	49.7	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR7
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006144	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	97.6	<43.2	<42.9	n/a	n/a	n/a	105	42.9	n/a	UT
S11V006144	O	95-57-8	2-Chlorophenol	ug/kg	88.1	<66.5	<66.1	n/a	n/a	n/a	86.2	66.1	n/a	U
S11V006144	O	218-01-9	Chrysene	ug/kg	114	<81.4	<80.9	n/a	n/a	n/a	110	80.9	n/a	U
S11V006144	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	124	<51.1	<50.8	n/a	n/a	n/a	114	50.8	n/a	U
S11V006144	O	84-74-2	Di-n-butylphthalate	ug/kg	127	<562	<559	n/a	n/a	n/a	121	559	n/a	U
S11V006144	O	117-84-0	Di-n-octylphthalate	ug/kg	116	<47.7	<47.4	n/a	n/a	n/a	128	47.4	n/a	U
S11V006144	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	84.6	<58.1	<57.8	n/a	n/a	n/a	82.7	57.8	n/a	U
S11V006144	O	206-44-0	Fluoranthene	ug/kg	112	<35.4	<35.2	n/a	n/a	n/a	109	35.2	n/a	U
S11V006144	O	87-68-3	Hexachlorobutadiene	ug/kg	86.9	<69.7	<69.3	n/a	n/a	n/a	83.7	69.3	n/a	U
S11V006144	O	67-72-1	Hexachloroethane	ug/kg	75.9	<112	<111	n/a	n/a	n/a	69.1	111	n/a	UT
S11V006144	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	123	<51.0	<50.7	n/a	n/a	n/a	112	50.7	n/a	U
S11V006144	O	91-20-3	Naphthalene	ug/kg	88.2	<62.6	<62.2	n/a	n/a	n/a	85.4	62.2	n/a	U
S11V006144	O	98-95-3	Nitrobenzene	ug/kg	86.5	<64.6	<64.2	n/a	n/a	n/a	85.6	64.2	n/a	U
S11V006144	O	129-00-0	Pyrene	ug/kg	117	<62.9	<62.5	n/a	n/a	n/a	119	62.5	n/a	UT
S11V006144	O	110-86-1	Pyridine	ug/kg	79.6	<65.0	<64.6	n/a	n/a	n/a	76.2	64.6	n/a	U
S11V006144	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S11V006144	O	128-37-0	BHT	ug/kg	83.7	<236	<234	n/a	n/a	n/a	65.7	234	n/a	UT
S11V006144	O	110-80-5	2-Ethoxyethanol	ug/kg	85.3	<182	<181	n/a	n/a	n/a	80.0	181	n/a	U
S11V006144	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S11V006144	O	108-94-1	Cyclohexanone	ug/kg	78.2	<559	<556	n/a	n/a	n/a	73.1	556	n/a	U
S11V006144	O	59-89-2	N-Nitrosomorpholine	ug/kg	82.1	<191	<190	n/a	n/a	n/a	79.6	190	n/a	U
S11V006145	S	14798-03-9	Ammonium	ug/g	98.3	<0.0120	4.29	4.09	4.19	4.90	96.2	0.582	n/a	B

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR7 WE
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006146		CONDUCT	Conductivity	uMHO/cm	104	0.826	125	126	125	0.720	n/a	0.0100	n/a	
S11V006146	WV	14133-76-7	Technetium-99	ug/g	102	<6.00E-06	<6.05E-06	<6.08E-06	n/a	n/a	93.7	6.05E-06	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR8
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005871		%WATERA	%WATER-APD	%	n/a	n/a	5.050	5.790	5.420	13.65	n/a	0.01000	n/a	
S11V005871		57-12-5	Cyanide	ug/g	93.7	<0.0370	<0.479	n/a	n/a	n/a	n/a	0.479	n/a	U
S11V005871		WT%SOLID	Weight percent solids	%	n/a	n/a	95.0	94.2	94.6	0.782	n/a	0.0100	n/a	
S11V005871		7439-97-6	Mercury	ug/g	105	<1.10E-05	5.06E-03	n/a	n/a	n/a	n/a	1.07E-03	n/a	
S11V005871		PH	pH	unitless	n/a	n/a	8.18	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005872		13966-00-2	Potassium-40	uCi/g	n/a	<8.09E-06	1.50E-05	n/a	n/a	n/a	n/a	3.11E-06	5.18	
S11V005872		10198-40-0	Cobalt-60	uCi/g	92.5	<2.46E-07	<8.45E-08	n/a	n/a	n/a	n/a	8.45E-08	n/a	U
S11V005872		14234-35-6	Antimony-125	uCi/g	n/a	<6.20E-07	<2.96E-07	n/a	n/a	n/a	n/a	2.96E-07	n/a	U
S11V005872		10045-97-3	Cesium-137	uCi/g	91.7	<4.67E-07	7.09E-06	n/a	n/a	n/a	n/a	1.07E-07	0.81	
S11V005872		14683-23-9	Europium-152	uCi/g	n/a	<6.90E-07	<3.08E-07	n/a	n/a	n/a	n/a	3.08E-07	n/a	U
S11V005872		15585-10-1	Europium-154	uCi/g	n/a	<8.06E-07	<3.00E-07	n/a	n/a	n/a	n/a	3.00E-07	n/a	U
S11V005872		14391-16-3	Europium-155	uCi/g	n/a	<7.61E-07	<1.90E-07	n/a	n/a	n/a	n/a	1.90E-07	n/a	U
S11V005872		14913-50-9	Thallium-208	uCi/g	n/a	<3.12E-07	1.06E-06	n/a	n/a	n/a	n/a	9.52E-08	4.04	
S11V005872		14913-49-6	Bismuth-212	uCi/g	n/a	<4.65E-06	1.59E-06	n/a	n/a	n/a	n/a	1.19E-06	21.89	
S11V005872		15092-94-1	Lead-212	uCi/g	n/a	<4.43E-07	8.55E-07	n/a	n/a	n/a	n/a	1.67E-07	5.86	
S11V005872		14733-03-0	Bismuth-214	uCi/g	n/a	<5.46E-07	9.19E-07	n/a	n/a	n/a	n/a	2.34E-07	6.94	
S11V005872		15067-28-4	Lead-214	uCi/g	n/a	<6.21E-07	2.59E-06	n/a	n/a	n/a	n/a	2.22E-07	3.72	
S11V005872		14331-83-0	Actinium-228	uCi/g	n/a	n/a	8.85E-07	n/a	n/a	n/a	n/a	4.72E-07	19.95	
S11V005872		14274-82-9	Thorium-228	uCi/g	n/a	<1.16E-04	<4.42E-05	n/a	n/a	n/a	n/a	4.42E-05	n/a	U
S11V005872		15065-10-8	Thorium-234	uCi/g	n/a	<1.45E-05	<2.79E-06	n/a	n/a	n/a	n/a	2.79E-06	n/a	U
S11V005872		15046-84-1	Iodine-129	uCi/g	94.0	<1.96E-06	<1.35E-06	n/a	n/a	n/a	n/a	1.35E-06	n/a	U
S11V005873	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<27.1	<28.0	n/a	n/a	n/a	n/a	28.0	n/a	U
S11V005873	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<4.48	<4.62	n/a	n/a	n/a	n/a	4.62	n/a	U
S11V005873	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<7.60	<7.85	n/a	n/a	n/a	n/a	7.85	n/a	U
S11V005873	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<18.1	<18.7	n/a	n/a	n/a	n/a	18.7	n/a	U
S11V005873	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<10.2	<10.6	n/a	n/a	n/a	n/a	10.6	n/a	U
S11V005873	O	11097-69-1	Aroclor 1254	ug/kg	93.1	<6.56	<6.78	n/a	n/a	n/a	n/a	6.78	n/a	U
S11V005873	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<10.6	<11.0	n/a	n/a	n/a	n/a	11.0	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR8
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005874	A	7440-36-0	Antimony	ug/g	101	<2.00E-04	0.283	n/a	n/a	n/a	n/a	6.02E-03	n/a	
S11V005874	A	SN-117	Tin-117	ug/g	110	<1.00E-03	<0.0301	n/a	n/a	n/a	n/a	0.0301	n/a	U
S11V005874	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.03E-03	n/a	n/a	n/a	n/a	6.02E-04	n/a	E
S11V005875	W	16984-48-8	Fluoride	ug/g	99.9	<1.61E-03	0.467	n/a	n/a	n/a	n/a	0.0152	n/a	M
S11V005875	W	GLYCOLAT	Glycolate	ug/g	109	<9.37E-03	<0.0884	n/a	n/a	n/a	n/a	0.0884	n/a	U
S11V005875	W	71-50-1	Acetate	ug/g	107	<6.04E-03	<0.0570	n/a	n/a	n/a	n/a	0.0570	n/a	U
S11V005875	W	FORMATE	Formate	ug/g	98.7	<4.67E-03	0.110	n/a	n/a	n/a	n/a	0.0441	n/a	B
S11V005875	W	16887-00-6	Chloride	ug/g	96.6	<9.98E-03	0.434	n/a	n/a	n/a	n/a	0.0942	n/a	B
S11V005875	W	14797-65-0	Nitrite	ug/g	102	0.0348	0.692	n/a	n/a	n/a	n/a	0.181	n/a	CB
S11V005875	W	14808-79-8	Sulfate	ug/g	100	<0.0187	1.75	n/a	n/a	n/a	n/a	0.176	n/a	B
S11V005875	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.218	n/a	n/a	n/a	n/a	0.218	n/a	U
S11V005875	W	24959-67-9	Bromide	ug/g	83.4	<0.0580	<0.547	n/a	n/a	n/a	n/a	0.547	n/a	U
S11V005875	W	14797-55-8	Nitrate	ug/g	103	<0.0208	4.21	n/a	n/a	n/a	n/a	0.196	n/a	
S11V005875	W	14265-44-2	Phosphate	ug/g	93.8	<0.0167	4.14	n/a	n/a	n/a	n/a	0.158	n/a	N
S11V005876	A	7429-90-5	Aluminum	ug/g	86.2	<0.0300	8.19E+03	n/a	n/a	n/a	n/a	4.19	n/a	
S11V005876	A	7440-39-3	Barium	ug/g	92.5	<3.00E-03	80.9	n/a	n/a	n/a	n/a	0.419	n/a	
S11V005876	A	7440-41-7	Beryllium	ug/g	97.4	<1.00E-03	0.284	n/a	n/a	n/a	n/a	0.140	n/a	B
S11V005876	A	7440-69-9	Bismuth	ug/g	89.0	<0.100	25.4	n/a	n/a	n/a	n/a	14.0	n/a	B
S11V005876	A	7440-70-2	Calcium	ug/g	81.2	0.0812	8.84E+03	n/a	n/a	n/a	n/a	6.98	n/a	
S11V005876	A	7440-45-1	Cerium	ug/g	95.3	<0.0300	22.7	n/a	n/a	n/a	n/a	4.19	n/a	B
S11V005876	A	7440-48-4	Cobalt	ug/g	87.0	<0.0100	8.91	n/a	n/a	n/a	n/a	1.40	n/a	B
S11V005876	A	7440-47-3	Chromium	ug/g	87.3	<5.00E-03	8.70	n/a	n/a	n/a	n/a	0.698	n/a	
S11V005876	A	7440-50-8	Copper	ug/g	96.5	<5.00E-03	13.2	n/a	n/a	n/a	n/a	0.698	n/a	
S11V005876	A	7439-89-6	Iron	ug/g	89.6	<5.00E-03	2.17E+04	n/a	n/a	n/a	n/a	0.698	n/a	
S11V005876	A	7440-09-7	Potassium	ug/g	84.7	<0.500	1.59E+03	n/a	n/a	n/a	n/a	69.8	n/a	
S11V005876	A	7439-91-0	Lanthanum	ug/g	95.8	<3.00E-03	11.9	n/a	n/a	n/a	n/a	0.419	n/a	
S11V005876	A	7439-93-2	Lithium	ug/g	96.0	<3.00E-03	8.74	n/a	n/a	n/a	n/a	0.419	n/a	
S11V005876	A	7439-95-4	Magnesium	ug/g	89.2	<0.0500	5.43E+03	n/a	n/a	n/a	n/a	6.98	n/a	

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR8
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005876	A	7439-96-5	Manganese	ug/g	86.4	<3.00E-03	355	n/a	n/a	n/a	n/a	0.419	n/a	
S11V005876	A	7439-98-7	Molybdenum	ug/g	84.3	<0.0200	<2.79	n/a	n/a	n/a	n/a	2.79	n/a	U
S11V005876	A	7440-23-5	Sodium	ug/g	95.9	<0.100	289	n/a	n/a	n/a	n/a	14.0	n/a	
S11V005876	A	7440-00-8	Neodymium	ug/g	94.3	<0.0100	11.6	n/a	n/a	n/a	n/a	1.40	n/a	B
S11V005876	A	7440-02-0	Nickel	ug/g	87.6	<0.0200	10.7	n/a	n/a	n/a	n/a	2.79	n/a	B
S11V005876	A	7723-14-0	Phosphorus	ug/g	86.0	<0.0500	788	n/a	n/a	n/a	n/a	6.98	n/a	
S11V005876	A	7704-34-9	Sulfur	ug/g	83.6	<0.100	56.4	n/a	n/a	n/a	n/a	14.0	n/a	BN
S11V005876	A	7440-21-3	Silicon	ug/g	80.6	<0.0300	79.7	n/a	n/a	n/a	n/a	4.19	n/a	N
S11V005876	A	7440-24-6	Strontium	ug/g	93.3	<3.00E-03	33.1	n/a	n/a	n/a	n/a	0.419	n/a	
S11V005876	A	7440-32-6	Titanium	ug/g	85.8	<5.00E-03	1.40E+03	n/a	n/a	n/a	n/a	0.698	n/a	
S11V005876	A	7440-62-2	Vanadium	ug/g	89.4	<5.00E-03	49.0	n/a	n/a	n/a	n/a	0.698	n/a	
S11V005876	A	7440-65-5	Yttrium	ug/g	90.6	<2.00E-03	9.07	n/a	n/a	n/a	n/a	0.279	n/a	
S11V005876	A	7440-66-6	Zinc	ug/g	87.4	<5.00E-03	43.0	n/a	n/a	n/a	n/a	0.698	n/a	
S11V005876	A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	6.89	n/a	n/a	n/a	n/a	0.698	n/a	BNM
S11V005876	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.26E-05	n/a	n/a	n/a	n/a	3.26E-05	n/a	U
S11V005876	A	TH-232	Thorium-232	ug/g	97.4	<2.50E-04	3.50	n/a	n/a	n/a	n/a	2.33E-03	n/a	
S11V005876	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<9.30E-04	n/a	n/a	n/a	n/a	9.30E-04	n/a	U
S11V005876	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.33E-05	n/a	n/a	n/a	n/a	2.33E-05	n/a	U
S11V005876	A	15117-96-1	Uranium-235	ug/g	92.9	<5.00E-06	3.76E-03	n/a	n/a	n/a	n/a	4.65E-05	n/a	
S11V005876	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.86E-05	n/a	n/a	n/a	n/a	1.86E-05	n/a	U
S11V005876	A	13994-20-2	Neptunium-237	ug/g	98.2	<5.00E-05	<4.65E-04	n/a	n/a	n/a	n/a	4.65E-04	n/a	U
S11V005876	A	U-238	Uranium-238	ug/g	96.6	<2.50E-04	0.532	n/a	n/a	n/a	n/a	2.33E-03	n/a	
S11V005876	A	7440-22-4	Silver	ug/g	95.0	<4.00E-03	0.0441	n/a	n/a	n/a	n/a	0.0372	n/a	B
S11V005876	A	7440-38-2	Arsenic	ug/g	116	0.0981	6.70	n/a	n/a	n/a	n/a	0.293	n/a	
S11V005876	A	7440-43-9	Cadmium	ug/g	101	<3.00E-03	0.109	n/a	n/a	n/a	n/a	0.0279	n/a	B
S11V005876	A	7439-92-1	Lead	ug/g	96.4	<7.50E-03	6.09	n/a	n/a	n/a	n/a	0.0698	n/a	
S11V005876	A	7782-49-2	Selenium	ug/g	87.1	<0.0675	<0.628	n/a	n/a	n/a	n/a	0.628	n/a	U
S11V005876	A	7440-28-0	Thallium	ug/g	101	0.0281	0.286	n/a	n/a	n/a	n/a	0.0186	n/a	C

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR8
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005877	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-05	<5.71E-04	n/a	n/a	n/a	n/a	5.71E-04	n/a	U
S11V005878	W	14762-75-5	Carbon-14	uCi/g	80.8	7.24E-07	<1.15E-06	n/a	n/a	n/a	n/a	1.15E-06	n/a	U
S11V005878	W	10028-17-8	Tritium	uCi/g	99.7	<2.09E-06	<2.09E-06	n/a	n/a	n/a	n/a	2.09E-06	n/a	U
S11V005879	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.04E-07	<2.24E-08	n/a	n/a	n/a	n/a	2.24E-08	n/a	U
S11V005879	E	14596-10-2	Americium-241	uCi/g	96.4	<4.01E-07	<2.44E-08	n/a	n/a	n/a	n/a	2.44E-08	n/a	U
S11V005879	E	15510-73-3	Curium-242	uCi/g	n/a	<1.67E-08	<1.39E-08	n/a	n/a	n/a	n/a	1.39E-08	n/a	U
S11V005879	E	PU-239/240	Plutonium-239/240	uCi/g	108	<6.88E-08	<4.83E-08	n/a	n/a	n/a	n/a	4.83E-08	n/a	U
S11V005879	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-08	<4.21E-08	n/a	n/a	n/a	n/a	4.21E-08	n/a	U
S11V005880	E	SR-89/90	Strontium-89/90	uCi/g	96.0	<1.70E-07	3.00E-06	n/a	n/a	n/a	n/a	1.70E-07	14.952	
S11V005881	E	13981-37-8	Nickel-63	uCi/g	93.1	<4.65E-06	<3.14E-06	n/a	n/a	n/a	n/a	3.14E-06	n/a	U
S11V005882	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.17E-06	<1.28E-06	n/a	n/a	n/a	n/a	1.28E-06	n/a	U
S11V006147	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	89.1	<77.4	<77.4	n/a	n/a	n/a	n/a	77.4	n/a	U
S11V006147	O	95-50-1	1,2-Dichlorobenzene	ug/kg	88.0	<101	<101	n/a	n/a	n/a	n/a	101	n/a	U
S11V006147	O	121-14-2	2,4-Dinitrotoluene	ug/kg	98.6	<38.1	<38.1	n/a	n/a	n/a	n/a	38.1	n/a	U
S11V006147	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	94.5	<44.0	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U
S11V006147	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	89.4	<49.5	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S11V006147	O	95-48-7	2-Methylphenol	ug/kg	89.9	<57.5	<57.5	n/a	n/a	n/a	n/a	57.5	n/a	U
S11V006147	O	88-75-5	2-Nitrophenol	ug/kg	90.2	<53.7	<53.7	n/a	n/a	n/a	n/a	53.7	n/a	U
S11V006147	O	65794-96-9	3 &4 Methylphenol	ug/kg	90.4	<51.4	<51.4	n/a	n/a	n/a	n/a	51.4	n/a	U
S11V006147	O	83-32-9	Acenaphthene	ug/kg	93.0	<17.6	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S11V006147	O	56-55-3	Benzo(a)anthracene	ug/kg	112	<37.8	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S11V006147	O	205-99-2	Benzo(b)fluoranthene	ug/kg	117	<48.9	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U
S11V006147	O	50-32-8	Benzo(a)pyrene	ug/kg	115	<41.2	<41.2	n/a	n/a	n/a	n/a	41.2	n/a	U
S11V006147	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	129	<590	<590	n/a	n/a	n/a	n/a	590	n/a	U
S11V006147	O	207-08-9	Benzo(k)fluoranthene	ug/kg	111	<39.1	<39.1	n/a	n/a	n/a	n/a	39.1	n/a	U
S11V006147	O	85-68-7	Butylbenzylphthalate	ug/kg	115	<50.0	80.7	n/a	n/a	n/a	n/a	50.0	n/a	J
S11V006147	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	97.6	<43.2	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	UT
S11V006147	O	95-57-8	2-Chlorophenol	ug/kg	88.1	<66.5	<66.5	n/a	n/a	n/a	n/a	66.5	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR8
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006147	O	218-01-9	Chrysene	ug/kg	114	<81.4	<81.4	n/a	n/a	n/a	n/a	81.4	n/a	U
S11V006147	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	124	<51.1	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S11V006147	O	84-74-2	Di-n-butylphthalate	ug/kg	127	<562	<562	n/a	n/a	n/a	n/a	562	n/a	U
S11V006147	O	117-84-0	Di-n-octylphthalate	ug/kg	116	<47.7	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S11V006147	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	84.6	<58.1	<58.1	n/a	n/a	n/a	n/a	58.1	n/a	U
S11V006147	O	206-44-0	Fluoranthene	ug/kg	112	<35.4	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S11V006147	O	87-68-3	Hexachlorobutadiene	ug/kg	86.9	<69.7	<69.7	n/a	n/a	n/a	n/a	69.7	n/a	U
S11V006147	O	67-72-1	Hexachloroethane	ug/kg	75.9	<112	<112	n/a	n/a	n/a	n/a	112	n/a	UT
S11V006147	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	123	<51.0	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S11V006147	O	91-20-3	Naphthalene	ug/kg	88.2	<62.6	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S11V006147	O	98-95-3	Nitrobenzene	ug/kg	86.5	<64.6	<64.6	n/a	n/a	n/a	n/a	64.6	n/a	U
S11V006147	O	129-00-0	Pyrene	ug/kg	117	<62.9	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	UT
S11V006147	O	110-86-1	Pyridine	ug/kg	79.6	<65.0	<65.0	n/a	n/a	n/a	n/a	65.0	n/a	U
S11V006147	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S11V006147	O	128-37-0	BHT	ug/kg	83.7	<236	<236	n/a	n/a	n/a	n/a	236	n/a	UT
S11V006147	O	110-80-5	2-Ethoxyethanol	ug/kg	85.3	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S11V006147	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S11V006147	O	108-94-1	Cyclohexanone	ug/kg	78.2	<559	<559	n/a	n/a	n/a	n/a	559	n/a	U
S11V006147	O	59-89-2	N-Nitrosomorpholine	ug/kg	82.1	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S11V006148	S	14798-03-9	Ammonium	ug/g	98.3	<0.0120	3.77	n/a	n/a	n/a	n/a	0.560	n/a	B

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FPR8 WE
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006149		CONDUCT	Conductivity	uMHO/cm	104	0.826	124	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V006149	WV	14133-76-7	Technetium-99	ug/g	102	<6.00E-06	<5.93E-06	n/a	n/a	n/a	n/a	5.93E-06	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM3
Sample Depth: 11'- 13'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005890		%WATERA	%WATER-APD	%	n/a	n/a	18.11	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005890		57-12-5	Cyanide	ug/g	98.2	<0.0370	<0.480	<0.480	n/a	n/a	72.7	0.480	n/a	UN
S11V005890		WT%SOLID	Weight percent solids	%	n/a	n/a	81.9	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005890		7439-97-6	Mercury	ug/g	105	<1.10E-05	<9.82E-04	n/a	n/a	n/a	n/a	9.82E-04	n/a	U
S11V005890		PH	pH	unitless	n/a	n/a	8.70	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005891		13966-00-2	Potassium-40	uCi/g	n/a	<8.09E-06	1.25E-05	n/a	n/a	n/a	n/a	2.61E-06	5.98	
S11V005891		10198-40-0	Cobalt-60	uCi/g	92.5	<2.46E-07	<9.80E-08	n/a	n/a	n/a	n/a	9.80E-08	n/a	U
S11V005891		14234-35-6	Antimony-125	uCi/g	n/a	<6.20E-07	<2.60E-07	n/a	n/a	n/a	n/a	2.60E-07	n/a	U
S11V005891		10045-97-3	Cesium-137	uCi/g	91.7	<4.67E-07	<1.51E-07	n/a	n/a	n/a	n/a	1.51E-07	n/a	U
S11V005891		14683-23-9	Europium-152	uCi/g	n/a	<6.90E-07	<2.69E-07	n/a	n/a	n/a	n/a	2.69E-07	n/a	U
S11V005891		15585-10-1	Europium-154	uCi/g	n/a	<8.06E-07	<2.60E-07	n/a	n/a	n/a	n/a	2.60E-07	n/a	U
S11V005891		14391-16-3	Europium-155	uCi/g	n/a	<7.61E-07	<3.21E-07	n/a	n/a	n/a	n/a	3.21E-07	n/a	U
S11V005891		14913-50-9	Thallium-208	uCi/g	n/a	<3.12E-07	3.37E-07	n/a	n/a	n/a	n/a	1.08E-07	12.55	
S11V005891		15092-94-1	Lead-212	uCi/g	n/a	<4.43E-07	8.04E-07	n/a	n/a	n/a	n/a	1.44E-07	5.95	
S11V005891		14733-03-0	Bismuth-214	uCi/g	n/a	<5.46E-07	1.12E-06	n/a	n/a	n/a	n/a	2.10E-07	7.28	
S11V005891		15067-28-4	Lead-214	uCi/g	n/a	<6.21E-07	1.28E-06	n/a	n/a	n/a	n/a	2.01E-07	6.02	
S11V005891		14331-83-0	Actinium-228	uCi/g	n/a	n/a	1.74E-06	n/a	n/a	n/a	n/a	2.72E-07	7.30	
S11V005891		14274-82-9	Thorium-228	uCi/g	n/a	<1.16E-04	<4.47E-05	n/a	n/a	n/a	n/a	4.47E-05	n/a	U
S11V005891		15065-10-8	Thorium-234	uCi/g	n/a	<1.45E-05	<1.20E-05	n/a	n/a	n/a	n/a	1.20E-05	n/a	U
S11V005891		15046-84-1	Iodine-129	uCi/g	94.0	<1.96E-06	<7.88E-07	n/a	n/a	n/a	n/a	7.88E-07	n/a	U
S11V005892	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<27.1	<21.5	n/a	n/a	n/a	n/a	21.5	n/a	U
S11V005892	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<4.48	<3.55	n/a	n/a	n/a	n/a	3.55	n/a	U
S11V005892	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<7.60	<6.03	n/a	n/a	n/a	n/a	6.03	n/a	U
S11V005892	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<18.1	<14.4	n/a	n/a	n/a	n/a	14.4	n/a	U
S11V005892	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<10.2	<8.12	n/a	n/a	n/a	n/a	8.12	n/a	U
S11V005892	O	11097-69-1	Aroclor 1254	ug/kg	93.1	<6.56	<5.21	n/a	n/a	n/a	n/a	5.21	n/a	U
S11V005892	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<10.6	<8.41	n/a	n/a	n/a	n/a	8.41	n/a	U
S11V005893	A	7440-36-0	Antimony	ug/g	101	<2.00E-04	0.721	n/a	n/a	n/a	n/a	6.05E-03	n/a	

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM3
Sample Depth: 11'- 13'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005893	A	SN-117	Tin-117	ug/g	110	<1.00E-03	<0.0303	n/a	n/a	n/a	n/a	0.0303	n/a	U
S11V005893	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	4.30E-03	n/a	n/a	n/a	n/a	6.05E-04	n/a	E
S11V005894	W	16984-48-8	Fluoride	ug/g	99.9	<1.61E-03	2.04	n/a	n/a	n/a	n/a	0.0155	n/a	M
S11V005894	W	GLYCOLAT	Glycolate	ug/g	109	<9.37E-03	<0.0901	n/a	n/a	n/a	n/a	0.0901	n/a	U
S11V005894	W	71-50-1	Acetate	ug/g	107	<6.04E-03	<0.0581	n/a	n/a	n/a	n/a	0.0581	n/a	U
S11V005894	W	FORMATE	Formate	ug/g	98.7	<4.67E-03	0.125	n/a	n/a	n/a	n/a	0.0449	n/a	B
S11V005894	W	16887-00-6	Chloride	ug/g	96.6	<9.98E-03	1.43	n/a	n/a	n/a	n/a	0.0960	n/a	
S11V005894	W	14797-65-0	Nitrite	ug/g	102	0.0348	2.11	n/a	n/a	n/a	n/a	0.185	n/a	
S11V005894	W	14808-79-8	Sulfate	ug/g	100	<0.0187	8.42	n/a	n/a	n/a	n/a	0.180	n/a	
S11V005894	W	338-70-5	Oxalate	ug/g	101	<0.0231	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S11V005894	W	24959-67-9	Bromide	ug/g	83.4	<0.0580	<0.558	n/a	n/a	n/a	n/a	0.558	n/a	U
S11V005894	W	14797-55-8	Nitrate	ug/g	103	<0.0208	17.4	n/a	n/a	n/a	n/a	0.200	n/a	
S11V005894	W	14265-44-2	Phosphate	ug/g	93.8	<0.0167	0.813	n/a	n/a	n/a	n/a	0.161	n/a	BN
S11V005895	A	7429-90-5	Aluminum	ug/g	86.2	<0.0300	9.44E+03	n/a	n/a	n/a	n/a	4.13	n/a	
S11V005895	A	7440-39-3	Barium	ug/g	92.5	<3.00E-03	85.3	n/a	n/a	n/a	n/a	0.413	n/a	
S11V005895	A	7440-41-7	Beryllium	ug/g	97.4	<1.00E-03	0.403	n/a	n/a	n/a	n/a	0.138	n/a	B
S11V005895	A	7440-69-9	Bismuth	ug/g	89.0	<0.100	33.3	n/a	n/a	n/a	n/a	13.8	n/a	B
S11V005895	A	7440-70-2	Calcium	ug/g	81.2	0.0812	1.75E+04	n/a	n/a	n/a	n/a	6.88	n/a	
S11V005895	A	7440-45-1	Cerium	ug/g	95.3	<0.0300	25.1	n/a	n/a	n/a	n/a	4.13	n/a	B
S11V005895	A	7440-48-4	Cobalt	ug/g	87.0	<0.0100	9.60	n/a	n/a	n/a	n/a	1.38	n/a	B
S11V005895	A	7440-47-3	Chromium	ug/g	87.3	<5.00E-03	10.6	n/a	n/a	n/a	n/a	0.688	n/a	
S11V005895	A	7440-50-8	Copper	ug/g	96.5	<5.00E-03	18.1	n/a	n/a	n/a	n/a	0.688	n/a	
S11V005895	A	7439-89-6	Iron	ug/g	89.6	<5.00E-03	2.37E+04	n/a	n/a	n/a	n/a	0.688	n/a	
S11V005895	A	7440-09-7	Potassium	ug/g	84.7	<0.500	1.39E+03	n/a	n/a	n/a	n/a	68.8	n/a	
S11V005895	A	7439-91-0	Lanthanum	ug/g	95.8	<3.00E-03	13.1	n/a	n/a	n/a	n/a	0.413	n/a	
S11V005895	A	7439-93-2	Lithium	ug/g	96.0	<3.00E-03	12.1	n/a	n/a	n/a	n/a	0.413	n/a	
S11V005895	A	7439-95-4	Magnesium	ug/g	89.2	<0.0500	8.62E+03	n/a	n/a	n/a	n/a	6.88	n/a	
S11V005895	A	7439-96-5	Manganese	ug/g	86.4	<3.00E-03	408	n/a	n/a	n/a	n/a	0.413	n/a	

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM3
Sample Depth: 11'- 13'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005895	A	7439-98-7	Molybdenum	ug/g	84.3	<0.0200	<2.75	n/a	n/a	n/a	n/a	2.75	n/a	U
S11V005895	A	7440-23-5	Sodium	ug/g	95.9	<0.100	444	n/a	n/a	n/a	n/a	13.8	n/a	
S11V005895	A	7440-00-8	Neodymium	ug/g	94.3	<0.0100	13.2	n/a	n/a	n/a	n/a	1.38	n/a	B
S11V005895	A	7440-02-0	Nickel	ug/g	87.6	<0.0200	10.8	n/a	n/a	n/a	n/a	2.75	n/a	B
S11V005895	A	7723-14-0	Phosphorus	ug/g	86.0	<0.0500	749	n/a	n/a	n/a	n/a	6.88	n/a	
S11V005895	A	7704-34-9	Sulfur	ug/g	83.6	<0.100	59.2	n/a	n/a	n/a	n/a	13.8	n/a	BN
S11V005895	A	7440-21-3	Silicon	ug/g	80.6	<0.0300	80.0	n/a	n/a	n/a	n/a	4.13	n/a	N
S11V005895	A	7440-24-6	Strontium	ug/g	93.3	<3.00E-03	44.7	n/a	n/a	n/a	n/a	0.413	n/a	
S11V005895	A	7440-32-6	Titanium	ug/g	85.8	<5.00E-03	1.39E+03	n/a	n/a	n/a	n/a	0.688	n/a	
S11V005895	A	7440-62-2	Vanadium	ug/g	89.4	<5.00E-03	52.4	n/a	n/a	n/a	n/a	0.688	n/a	
S11V005895	A	7440-65-5	Yttrium	ug/g	90.6	<2.00E-03	9.49	n/a	n/a	n/a	n/a	0.275	n/a	
S11V005895	A	7440-66-6	Zinc	ug/g	87.4	<5.00E-03	51.1	n/a	n/a	n/a	n/a	0.688	n/a	
S11V005895	A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	7.92	n/a	n/a	n/a	n/a	0.688	n/a	NM
S11V005895	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.21E-05	n/a	n/a	n/a	n/a	3.21E-05	n/a	U
S11V005895	A	TH-232	Thorium-232	ug/g	97.4	<2.50E-04	4.28	n/a	n/a	n/a	n/a	2.29E-03	n/a	
S11V005895	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<9.17E-04	n/a	n/a	n/a	n/a	9.17E-04	n/a	U
S11V005895	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.29E-05	n/a	n/a	n/a	n/a	2.29E-05	n/a	U
S11V005895	A	15117-96-1	Uranium-235	ug/g	92.9	<5.00E-06	6.00E-03	n/a	n/a	n/a	n/a	4.58E-05	n/a	
S11V005895	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.83E-05	n/a	n/a	n/a	n/a	1.83E-05	n/a	U
S11V005895	A	13994-20-2	Neptunium-237	ug/g	98.2	<5.00E-05	<4.58E-04	n/a	n/a	n/a	n/a	4.58E-04	n/a	U
S11V005895	A	U-238	Uranium-238	ug/g	96.6	<2.50E-04	0.840	n/a	n/a	n/a	n/a	2.29E-03	n/a	
S11V005895	A	7440-22-4	Silver	ug/g	95.0	<4.00E-03	0.0800	n/a	n/a	n/a	n/a	0.0367	n/a	B
S11V005895	A	7440-38-2	Arsenic	ug/g	116	0.0981	21.2	n/a	n/a	n/a	n/a	0.289	n/a	
S11V005895	A	7440-43-9	Cadmium	ug/g	101	<3.00E-03	0.150	n/a	n/a	n/a	n/a	0.0275	n/a	B
S11V005895	A	7439-92-1	Lead	ug/g	96.4	<7.50E-03	10.6	n/a	n/a	n/a	n/a	0.0688	n/a	
S11V005895	A	7782-49-2	Selenium	ug/g	87.1	<0.0675	<0.619	n/a	n/a	n/a	n/a	0.619	n/a	U
S11V005895	A	7440-28-0	Thallium	ug/g	101	0.0281	0.287	n/a	n/a	n/a	n/a	0.0183	n/a	C
S11V005896	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-05	<5.75E-04	n/a	n/a	n/a	n/a	5.75E-04	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM3
Sample Depth: 11'- 13'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005897	W	14762-75-5	Carbon-14	uCi/g	96.6	<6.17E-07	<9.48E-07	n/a	n/a	n/a	n/a	9.48E-07	n/a	U
S11V005897	W	10028-17-8	Tritium	uCi/g	99.7	<2.09E-06	<1.32E-06	n/a	n/a	n/a	n/a	1.32E-06	n/a	U
S11V005898	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.04E-07	<2.36E-08	n/a	n/a	n/a	n/a	2.36E-08	n/a	U
S11V005898	E	14596-10-2	Americium-241	uCi/g	96.4	<4.01E-07	<2.08E-08	n/a	n/a	n/a	n/a	2.08E-08	n/a	U
S11V005898	E	15510-73-3	Curium-242	uCi/g	n/a	<1.67E-08	<2.32E-08	n/a	n/a	n/a	n/a	2.32E-08	n/a	U
S11V005898	E	PU-239/240	Plutonium-239/240	uCi/g	108	<6.88E-08	<3.09E-08	n/a	n/a	n/a	n/a	3.09E-08	n/a	U
S11V005898	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-08	<3.68E-08	n/a	n/a	n/a	n/a	3.68E-08	n/a	U
S11V005899	E	SR-89/90	Strontium-89/90	uCi/g	96.0	<1.70E-07	<5.62E-07	n/a	n/a	n/a	n/a	5.62E-07	n/a	U
S11V005900	E	13981-37-8	Nickel-63	uCi/g	93.1	<4.65E-06	4.50E-06	n/a	n/a	n/a	n/a	3.43E-06	90.222	
S11V005901	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.17E-06	<1.14E-06	n/a	n/a	n/a	n/a	1.14E-06	n/a	U
S11V006150	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	83.6	<77.4	<74.7	n/a	n/a	n/a	n/a	74.7	n/a	U
S11V006150	O	95-50-1	1,2-Dichlorobenzene	ug/kg	78.8	<101	<97.2	n/a	n/a	n/a	n/a	97.2	n/a	U
S11V006150	O	121-14-2	2,4-Dinitrotoluene	ug/kg	89.9	<38.1	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U
S11V006150	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	86.9	<44.0	<42.5	n/a	n/a	n/a	n/a	42.5	n/a	U
S11V006150	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	77.8	<49.5	<47.8	n/a	n/a	n/a	n/a	47.8	n/a	U
S11V006150	O	95-48-7	2-Methylphenol	ug/kg	78.9	<57.5	<55.5	n/a	n/a	n/a	n/a	55.5	n/a	U
S11V006150	O	88-75-5	2-Nitrophenol	ug/kg	83.1	<53.7	<51.9	n/a	n/a	n/a	n/a	51.9	n/a	U
S11V006150	O	65794-96-9	3 &4 Methylphenol	ug/kg	80.3	<51.4	<49.6	n/a	n/a	n/a	n/a	49.6	n/a	U
S11V006150	O	83-32-9	Acenaphthene	ug/kg	85.8	<17.6	<17.0	n/a	n/a	n/a	n/a	17.0	n/a	U
S11V006150	O	56-55-3	Benzo(a)anthracene	ug/kg	97.1	<37.8	<36.5	n/a	n/a	n/a	n/a	36.5	n/a	U
S11V006150	O	205-99-2	Benzo(b)fluoranthene	ug/kg	100	<48.9	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S11V006150	O	50-32-8	Benzo(a)pyrene	ug/kg	97.6	<41.2	<39.8	n/a	n/a	n/a	n/a	39.8	n/a	U
S11V006150	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	100	<590	<570	n/a	n/a	n/a	n/a	570	n/a	U
S11V006150	O	207-08-9	Benzo(k)fluoranthene	ug/kg	95.8	<39.1	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S11V006150	O	85-68-7	Butylbenzylphthalate	ug/kg	95.5	<50.0	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U
S11V006150	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	87.9	<43.2	<41.7	n/a	n/a	n/a	n/a	41.7	n/a	U
S11V006150	O	95-57-8	2-Chlorophenol	ug/kg	79.3	<66.5	<64.2	n/a	n/a	n/a	n/a	64.2	n/a	U
S11V006150	O	218-01-9	Chrysene	ug/kg	97.9	<81.4	<78.6	n/a	n/a	n/a	n/a	78.6	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM3
Sample Depth: 11'- 13'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006150	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	104	<51.1	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S11V006150	O	84-74-2	Di-n-butylphthalate	ug/kg	99.7	<562	<543	n/a	n/a	n/a	n/a	543	n/a	U
S11V006150	O	117-84-0	Di-n-octylphthalate	ug/kg	95.2	<47.7	<46.1	n/a	n/a	n/a	n/a	46.1	n/a	U
S11V006150	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	77.8	<58.1	<56.1	n/a	n/a	n/a	n/a	56.1	n/a	U
S11V006150	O	206-44-0	Fluoranthene	ug/kg	99.1	<35.4	<34.2	n/a	n/a	n/a	n/a	34.2	n/a	U
S11V006150	O	87-68-3	Hexachlorobutadiene	ug/kg	84.2	<69.7	<67.3	n/a	n/a	n/a	n/a	67.3	n/a	U
S11V006150	O	67-72-1	Hexachloroethane	ug/kg	69.4	<112	<108	n/a	n/a	n/a	n/a	108	n/a	U
S11V006150	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	102	<51.0	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S11V006150	O	91-20-3	Naphthalene	ug/kg	81.7	<62.6	<60.5	n/a	n/a	n/a	n/a	60.5	n/a	U
S11V006150	O	98-95-3	Nitrobenzene	ug/kg	81.6	<64.6	<62.4	n/a	n/a	n/a	n/a	62.4	n/a	U
S11V006150	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<36.2	n/a	n/a	n/a	n/a	36.2	n/a	U
S11V006150	O	129-00-0	Pyrene	ug/kg	95.7	<62.9	<60.7	n/a	n/a	n/a	n/a	60.7	n/a	U
S11V006150	O	110-86-1	Pyridine	ug/kg	70.7	<65.0	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S11V006150	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S11V006150	O	128-37-0	BHT	ug/kg	76.9	<236	<228	n/a	n/a	n/a	n/a	228	n/a	U
S11V006150	O	110-80-5	2-Ethoxyethanol	ug/kg	69.8	<182	<176	n/a	n/a	n/a	n/a	176	n/a	U
S11V006150	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U
S11V006150	O	108-94-1	Cyclohexanone	ug/kg	70.7	<559	<540	n/a	n/a	n/a	n/a	540	n/a	U
S11V006150	O	59-89-2	N-Nitrosomorpholine	ug/kg	76.6	<191	<185	n/a	n/a	n/a	n/a	185	n/a	U
S11V006151	S	14798-03-9	Ammonium	ug/g	98.7	<0.0120	<0.427	<0.474	n/a	n/a	96.8	0.427	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM3 WE
Sample Depth: 11'- 13'

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006152			CONDUCT	Conductivity	uMHO/cm	104	0.826	200	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V006152		WV	14133-76-7	Technetium-99	ug/g	102	<6.00E-06	<7.86E-06	n/a	n/a	n/a	n/a	7.86E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

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

C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM4
Sample Depth: 19'- 21'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005909		%WATERA	%WATER-APD	%	n/a	n/a	12.94	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005909		57-12-5	Cyanide	ug/g	98.2	<0.0370	<0.480	n/a	n/a	n/a	n/a	0.480	n/a	UN
S11V005909		WT%SOLID	Weight percent solids	%	n/a	n/a	87.1	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005909		7439-97-6	Mercury	ug/g	105	<1.10E-05	3.90E-03	n/a	n/a	n/a	n/a	1.07E-03	n/a	B
S11V005909		PH	pH	unitless	n/a	n/a	8.71	8.68	8.70	0.345	n/a	0.0100	n/a	
S11V005910		13966-00-2	Potassium-40	uCi/g	n/a	<8.09E-06	9.95E-06	n/a	n/a	n/a	n/a	3.20E-06	8.28	
S11V005910		10198-40-0	Cobalt-60	uCi/g	92.5	<2.46E-07	<1.07E-07	n/a	n/a	n/a	n/a	1.07E-07	n/a	U
S11V005910		14234-35-6	Antimony-125	uCi/g	n/a	<6.20E-07	<2.66E-07	n/a	n/a	n/a	n/a	2.66E-07	n/a	U
S11V005910		10045-97-3	Cesium-137	uCi/g	91.7	<4.67E-07	<1.04E-07	n/a	n/a	n/a	n/a	1.04E-07	n/a	U
S11V005910		14683-23-9	Europium-152	uCi/g	n/a	<6.90E-07	<3.09E-07	n/a	n/a	n/a	n/a	3.09E-07	n/a	U
S11V005910		15585-10-1	Europium-154	uCi/g	n/a	<8.06E-07	<2.35E-07	n/a	n/a	n/a	n/a	2.35E-07	n/a	U
S11V005910		14391-16-3	Europium-155	uCi/g	n/a	<7.61E-07	<2.48E-07	n/a	n/a	n/a	n/a	2.48E-07	n/a	U
S11V005910		14913-50-9	Thallium-208	uCi/g	n/a	<3.12E-07	1.13E-06	n/a	n/a	n/a	n/a	8.13E-08	2.75	
S11V005910		15092-94-1	Lead-212	uCi/g	n/a	<4.43E-07	7.58E-07	n/a	n/a	n/a	n/a	1.65E-07	6.46	
S11V005910		14733-03-0	Bismuth-214	uCi/g	n/a	<5.46E-07	8.71E-07	n/a	n/a	n/a	n/a	2.39E-07	7.46	
S11V005910		15067-28-4	Lead-214	uCi/g	n/a	<6.21E-07	2.50E-06	n/a	n/a	n/a	n/a	2.09E-07	3.57	
S11V005910		14331-83-0	Actinium-228	uCi/g	n/a	n/a	7.99E-07	n/a	n/a	n/a	n/a	4.92E-07	23.75	
S11V005910		14274-82-9	Thorium-228	uCi/g	n/a	<1.16E-04	<4.53E-05	n/a	n/a	n/a	n/a	4.53E-05	n/a	U
S11V005910		15065-10-8	Thorium-234	uCi/g	n/a	<1.45E-05	<2.67E-06	n/a	n/a	n/a	n/a	2.67E-06	n/a	U
S11V005910		15046-84-1	Iodine-129	uCi/g	94.0	<1.96E-06	<1.46E-06	n/a	n/a	n/a	n/a	1.46E-06	n/a	U
S11V005911	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<27.1	<20.2	n/a	n/a	n/a	n/a	20.2	n/a	U
S11V005911	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<4.48	<3.34	n/a	n/a	n/a	n/a	3.34	n/a	U
S11V005911	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<7.60	<5.66	n/a	n/a	n/a	n/a	5.66	n/a	U
S11V005911	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<18.1	<13.5	n/a	n/a	n/a	n/a	13.5	n/a	U
S11V005911	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<10.2	<7.63	n/a	n/a	n/a	n/a	7.63	n/a	U
S11V005911	O	11097-69-1	Aroclor 1254	ug/kg	93.1	<6.56	<4.89	n/a	n/a	n/a	n/a	4.89	n/a	U
S11V005911	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<10.6	<7.90	n/a	n/a	n/a	n/a	7.90	n/a	U
S11V005912	A	7440-36-0	Antimony	ug/g	101	<2.00E-04	0.175	n/a	n/a	n/a	n/a	6.02E-03	n/a	

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U - Less Than Detection Limit

C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM4
Sample Depth: 19'- 21'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005912	A	SN-117	Tin-117	ug/g	110	<1.00E-03	0.0410	n/a	n/a	n/a	n/a	0.0301	n/a	
S11V005912	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.68E-03	n/a	n/a	n/a	n/a	6.02E-04	n/a	E
S11V005913	W	16984-48-8	Fluoride	ug/g	99.9	<1.61E-03	2.29	n/a	n/a	n/a	n/a	0.0144	n/a	M
S11V005913	W	GLYCOLAT	Glycolate	ug/g	109	<9.37E-03	<0.0840	n/a	n/a	n/a	n/a	0.0840	n/a	U
S11V005913	W	71-50-1	Acetate	ug/g	107	<6.04E-03	1.60	n/a	n/a	n/a	n/a	0.0542	n/a	
S11V005913	W	FORMATE	Formate	ug/g	98.7	<4.67E-03	0.439	n/a	n/a	n/a	n/a	0.0419	n/a	
S11V005913	W	16887-00-6	Chloride	ug/g	96.6	<9.98E-03	0.766	n/a	n/a	n/a	n/a	0.0895	n/a	B
S11V005913	W	14797-65-0	Nitrite	ug/g	102	0.0348	1.18	n/a	n/a	n/a	n/a	0.172	n/a	CB
S11V005913	W	14808-79-8	Sulfate	ug/g	100	<0.0187	27.7	n/a	n/a	n/a	n/a	0.168	n/a	
S11V005913	W	338-70-5	Oxalate	ug/g	101	<0.0231	0.664	n/a	n/a	n/a	n/a	0.207	n/a	B
S11V005913	W	24959-67-9	Bromide	ug/g	83.4	<0.0580	<0.520	n/a	n/a	n/a	n/a	0.520	n/a	U
S11V005913	W	14797-55-8	Nitrate	ug/g	103	<0.0208	10.6	n/a	n/a	n/a	n/a	0.187	n/a	
S11V005913	W	14265-44-2	Phosphate	ug/g	93.8	<0.0167	1.10	n/a	n/a	n/a	n/a	0.150	n/a	BN
S11V005914	A	7429-90-5	Aluminum	ug/g	86.2	<0.0300	9.51E+03	n/a	n/a	n/a	n/a	4.05	n/a	
S11V005914	A	7440-39-3	Barium	ug/g	92.5	<3.00E-03	98.8	n/a	n/a	n/a	n/a	0.405	n/a	
S11V005914	A	7440-41-7	Beryllium	ug/g	97.4	<1.00E-03	0.355	n/a	n/a	n/a	n/a	0.135	n/a	B
S11V005914	A	7440-69-9	Bismuth	ug/g	89.0	<0.100	50.5	n/a	n/a	n/a	n/a	13.5	n/a	B
S11V005914	A	7440-70-2	Calcium	ug/g	81.2	0.0812	1.03E+04	n/a	n/a	n/a	n/a	6.76	n/a	
S11V005914	A	7440-45-1	Cerium	ug/g	95.3	<0.0300	20.6	n/a	n/a	n/a	n/a	4.05	n/a	B
S11V005914	A	7440-48-4	Cobalt	ug/g	87.0	<0.0100	11.0	n/a	n/a	n/a	n/a	1.35	n/a	B
S11V005914	A	7440-47-3	Chromium	ug/g	87.3	<5.00E-03	12.8	n/a	n/a	n/a	n/a	0.676	n/a	
S11V005914	A	7440-50-8	Copper	ug/g	96.5	<5.00E-03	15.1	n/a	n/a	n/a	n/a	0.676	n/a	
S11V005914	A	7439-89-6	Iron	ug/g	89.6	<5.00E-03	2.86E+04	n/a	n/a	n/a	n/a	0.676	n/a	
S11V005914	A	7440-09-7	Potassium	ug/g	84.7	<0.500	1.08E+03	n/a	n/a	n/a	n/a	67.6	n/a	
S11V005914	A	7439-91-0	Lanthanum	ug/g	95.8	<3.00E-03	11.6	n/a	n/a	n/a	n/a	0.405	n/a	
S11V005914	A	7439-93-2	Lithium	ug/g	96.0	<3.00E-03	7.80	n/a	n/a	n/a	n/a	0.405	n/a	
S11V005914	A	7439-95-4	Magnesium	ug/g	89.2	<0.0500	5.04E+03	n/a	n/a	n/a	n/a	6.76	n/a	
S11V005914	A	7439-96-5	Manganese	ug/g	86.4	<3.00E-03	449	n/a	n/a	n/a	n/a	0.405	n/a	

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM4
Sample Depth: 19'- 21'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005914	A	7439-98-7	Molybdenum	ug/g	84.3	<0.0200	<2.70	n/a	n/a	n/a	n/a	2.70	n/a	U
S11V005914	A	7440-23-5	Sodium	ug/g	95.9	<0.100	662	n/a	n/a	n/a	n/a	13.5	n/a	
S11V005914	A	7440-00-8	Neodymium	ug/g	94.3	<0.0100	10.9	n/a	n/a	n/a	n/a	1.35	n/a	B
S11V005914	A	7440-02-0	Nickel	ug/g	87.6	<0.0200	11.9	n/a	n/a	n/a	n/a	2.70	n/a	B
S11V005914	A	7723-14-0	Phosphorus	ug/g	86.0	<0.0500	691	n/a	n/a	n/a	n/a	6.76	n/a	
S11V005914	A	7704-34-9	Sulfur	ug/g	83.6	<0.100	53.0	n/a	n/a	n/a	n/a	13.5	n/a	BN
S11V005914	A	7440-21-3	Silicon	ug/g	80.6	<0.0300	82.0	n/a	n/a	n/a	n/a	4.05	n/a	N
S11V005914	A	7440-24-6	Strontium	ug/g	93.3	<3.00E-03	36.7	n/a	n/a	n/a	n/a	0.405	n/a	
S11V005914	A	7440-32-6	Titanium	ug/g	85.8	<5.00E-03	2.08E+03	n/a	n/a	n/a	n/a	0.676	n/a	
S11V005914	A	7440-62-2	Vanadium	ug/g	89.4	<5.00E-03	78.5	n/a	n/a	n/a	n/a	0.676	n/a	
S11V005914	A	7440-65-5	Yttrium	ug/g	90.6	<2.00E-03	10.2	n/a	n/a	n/a	n/a	0.270	n/a	
S11V005914	A	7440-66-6	Zinc	ug/g	87.4	<5.00E-03	44.8	n/a	n/a	n/a	n/a	0.676	n/a	
S11V005914	A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	8.04	n/a	n/a	n/a	n/a	0.676	n/a	NM
S11V005914	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.15E-05	n/a	n/a	n/a	n/a	3.15E-05	n/a	U
S11V005914	A	TH-232	Thorium-232	ug/g	97.4	<2.50E-04	2.90	n/a	n/a	n/a	n/a	2.25E-03	n/a	
S11V005914	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<9.01E-04	n/a	n/a	n/a	n/a	9.01E-04	n/a	U
S11V005914	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.25E-05	n/a	n/a	n/a	n/a	2.25E-05	n/a	U
S11V005914	A	15117-96-1	Uranium-235	ug/g	92.9	<5.00E-06	4.26E-03	n/a	n/a	n/a	n/a	4.50E-05	n/a	
S11V005914	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.80E-05	n/a	n/a	n/a	n/a	1.80E-05	n/a	U
S11V005914	A	13994-20-2	Neptunium-237	ug/g	98.2	<5.00E-05	<4.50E-04	n/a	n/a	n/a	n/a	4.50E-04	n/a	U
S11V005914	A	U-238	Uranium-238	ug/g	96.6	<2.50E-04	0.561	n/a	n/a	n/a	n/a	2.25E-03	n/a	
S11V005914	A	7440-22-4	Silver	ug/g	95.0	<4.00E-03	0.0400	n/a	n/a	n/a	n/a	0.0360	n/a	B
S11V005914	A	7440-38-2	Arsenic	ug/g	116	0.0981	3.81	n/a	n/a	n/a	n/a	0.284	n/a	C
S11V005914	A	7440-43-9	Cadmium	ug/g	101	<3.00E-03	0.0949	n/a	n/a	n/a	n/a	0.0270	n/a	B
S11V005914	A	7439-92-1	Lead	ug/g	96.4	<7.50E-03	3.71	n/a	n/a	n/a	n/a	0.0676	n/a	
S11V005914	A	7782-49-2	Selenium	ug/g	87.1	<0.0675	<0.608	n/a	n/a	n/a	n/a	0.608	n/a	U
S11V005914	A	7440-28-0	Thallium	ug/g	101	0.0281	0.272	n/a	n/a	n/a	n/a	0.0180	n/a	C
S11V005915	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-05	<5.80E-04	n/a	n/a	n/a	n/a	5.80E-04	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM4
Sample Depth: 19'- 21'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005916	W	14762-75-5	Carbon-14	uCi/g	96.6	<6.17E-07	<8.13E-07	n/a	n/a	n/a	n/a	8.13E-07	n/a	U
S11V005916	W	10028-17-8	Tritium	uCi/g	99.7	<2.09E-06	<2.19E-06	n/a	n/a	n/a	n/a	2.19E-06	n/a	U
S11V005917	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.04E-07	<3.53E-08	n/a	n/a	n/a	n/a	3.53E-08	n/a	U
S11V005917	E	14596-10-2	Americium-241	uCi/g	96.4	<4.01E-07	<3.07E-08	n/a	n/a	n/a	n/a	3.07E-08	n/a	U
S11V005917	E	15510-73-3	Curium-242	uCi/g	n/a	<1.67E-08	<1.52E-08	n/a	n/a	n/a	n/a	1.52E-08	n/a	U
S11V005917	E	PU-239/240	Plutonium-239/240	uCi/g	108	<6.88E-08	<4.16E-08	n/a	n/a	n/a	n/a	4.16E-08	n/a	U
S11V005917	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-08	<3.60E-08	n/a	n/a	n/a	n/a	3.60E-08	n/a	U
S11V005918	E	SR-89/90	Strontium-89/90	uCi/g	96.0	<1.70E-07	<1.84E-07	n/a	n/a	n/a	n/a	1.84E-07	n/a	U
S11V005919	E	13981-37-8	Nickel-63	uCi/g	93.1	<4.65E-06	<3.37E-06	n/a	n/a	n/a	n/a	3.37E-06	n/a	U
S11V005920	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.17E-06	<1.08E-06	n/a	n/a	n/a	n/a	1.08E-06	n/a	U
S11V006153	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	89.1	<77.4	<77.3	n/a	n/a	n/a	n/a	77.3	n/a	U
S11V006153	O	95-50-1	1,2-Dichlorobenzene	ug/kg	88.0	<101	<101	n/a	n/a	n/a	n/a	101	n/a	U
S11V006153	O	121-14-2	2,4-Dinitrotoluene	ug/kg	98.6	<38.1	<38.0	n/a	n/a	n/a	n/a	38.0	n/a	U
S11V006153	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	94.5	<44.0	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S11V006153	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	89.4	<49.5	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S11V006153	O	95-48-7	2-Methylphenol	ug/kg	89.9	<57.5	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S11V006153	O	88-75-5	2-Nitrophenol	ug/kg	90.2	<53.7	<53.6	n/a	n/a	n/a	n/a	53.6	n/a	U
S11V006153	O	65794-96-9	3 &4 Methylphenol	ug/kg	90.4	<51.4	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S11V006153	O	83-32-9	Acenaphthene	ug/kg	93.0	<17.6	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S11V006153	O	56-55-3	Benzo(a)anthracene	ug/kg	112	<37.8	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S11V006153	O	205-99-2	Benzo(b)fluoranthene	ug/kg	117	<48.9	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U
S11V006153	O	50-32-8	Benzo(a)pyrene	ug/kg	115	<41.2	<41.1	n/a	n/a	n/a	n/a	41.1	n/a	U
S11V006153	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	129	<590	<589	n/a	n/a	n/a	n/a	589	n/a	U
S11V006153	O	207-08-9	Benzo(k)fluoranthene	ug/kg	111	<39.1	<39.0	n/a	n/a	n/a	n/a	39.0	n/a	U
S11V006153	O	85-68-7	Butylbenzylphthalate	ug/kg	115	<50.0	<49.9	n/a	n/a	n/a	n/a	49.9	n/a	U
S11V006153	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	97.6	<43.2	<43.1	n/a	n/a	n/a	n/a	43.1	n/a	UT
S11V006153	O	95-57-8	2-Chlorophenol	ug/kg	88.1	<66.5	<66.4	n/a	n/a	n/a	n/a	66.4	n/a	U
S11V006153	O	218-01-9	Chrysene	ug/kg	114	<81.4	<81.3	n/a	n/a	n/a	n/a	81.3	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM4
Sample Depth: 19'- 21'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006153	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	124	<51.1	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S11V006153	O	84-74-2	Di-n-butylphthalate	ug/kg	127	<562	<561	n/a	n/a	n/a	n/a	561	n/a	U
S11V006153	O	117-84-0	Di-n-octylphthalate	ug/kg	116	<47.7	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S11V006153	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	84.6	<58.1	<58.0	n/a	n/a	n/a	n/a	58.0	n/a	U
S11V006153	O	206-44-0	Fluoranthene	ug/kg	112	<35.4	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S11V006153	O	87-68-3	Hexachlorobutadiene	ug/kg	86.9	<69.7	<69.6	n/a	n/a	n/a	n/a	69.6	n/a	U
S11V006153	O	67-72-1	Hexachloroethane	ug/kg	75.9	<112	<112	n/a	n/a	n/a	n/a	112	n/a	UT
S11V006153	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	123	<51.0	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S11V006153	O	91-20-3	Naphthalene	ug/kg	88.2	<62.6	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S11V006153	O	98-95-3	Nitrobenzene	ug/kg	86.5	<64.6	<64.5	n/a	n/a	n/a	n/a	64.5	n/a	U
S11V006153	O	129-00-0	Pyrene	ug/kg	117	<62.9	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	UT
S11V006153	O	110-86-1	Pyridine	ug/kg	79.6	<65.0	<64.9	n/a	n/a	n/a	n/a	64.9	n/a	U
S11V006153	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S11V006153	O	128-37-0	BHT	ug/kg	83.7	<236	<235	n/a	n/a	n/a	n/a	235	n/a	UT
S11V006153	O	110-80-5	2-Ethoxyethanol	ug/kg	85.3	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S11V006153	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S11V006153	O	108-94-1	Cyclohexanone	ug/kg	78.2	<559	<558	n/a	n/a	n/a	n/a	558	n/a	U
S11V006153	O	59-89-2	N-Nitrosomorpholine	ug/kg	82.1	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S11V006154	S	14798-03-9	Ammonium	ug/g	98.7	<0.0120	<0.422	n/a	n/a	n/a	n/a	0.422	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM4 WE
Sample Depth: 19'- 21'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006155		CONDUCT	Conductivity	uMHO/cm	104	0.826	290	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V006155	WV	14133-76-7	Technetium-99	ug/g	102	<6.00E-06	<7.00E-06	n/a	n/a	n/a	n/a	7.00E-06	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM5
Sample Depth: 27'- 29'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005928		%WATERA	%WATER-APD	%	n/a	n/a	4.630	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005928		57-12-5	Cyanide	ug/g	98.2	<0.0370	<0.480	n/a	n/a	n/a	n/a	0.480	n/a	UN
S11V005928		WT%SOLID	Weight percent solids	%	n/a	n/a	95.4	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005928		7439-97-6	Mercury	ug/g	105	<1.10E-05	<1.07E-03	n/a	n/a	n/a	n/a	1.07E-03	n/a	U
S11V005928		PH	pH	unitless	n/a	n/a	8.59	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005929		13966-00-2	Potassium-40	uCi/g	n/a	<8.09E-06	1.26E-05	n/a	n/a	n/a	n/a	3.41E-06	6.84	
S11V005929		10198-40-0	Cobalt-60	uCi/g	92.5	<2.46E-07	<6.14E-08	n/a	n/a	n/a	n/a	6.14E-08	n/a	U
S11V005929		14234-35-6	Antimony-125	uCi/g	n/a	<6.20E-07	<2.99E-07	n/a	n/a	n/a	n/a	2.99E-07	n/a	U
S11V005929		10045-97-3	Cesium-137	uCi/g	91.7	<4.67E-07	<1.18E-07	n/a	n/a	n/a	n/a	1.18E-07	n/a	U
S11V005929		14683-23-9	Europium-152	uCi/g	n/a	<6.90E-07	<3.31E-07	n/a	n/a	n/a	n/a	3.31E-07	n/a	U
S11V005929		15585-10-1	Europium-154	uCi/g	n/a	<8.06E-07	<3.23E-07	n/a	n/a	n/a	n/a	3.23E-07	n/a	U
S11V005929		14391-16-3	Europium-155	uCi/g	n/a	<7.61E-07	<2.63E-07	n/a	n/a	n/a	n/a	2.63E-07	n/a	U
S11V005929		14913-50-9	Thallium-208	uCi/g	n/a	<3.12E-07	1.12E-06	n/a	n/a	n/a	n/a	1.15E-07	4.98	
S11V005929		15092-94-1	Lead-212	uCi/g	n/a	<4.43E-07	7.28E-07	n/a	n/a	n/a	n/a	1.75E-07	7.12	
S11V005929		14733-03-0	Bismuth-214	uCi/g	n/a	<5.46E-07	5.55E-07	n/a	n/a	n/a	n/a	2.71E-07	16.31	
S11V005929		15067-28-4	Lead-214	uCi/g	n/a	<6.21E-07	2.06E-06	n/a	n/a	n/a	n/a	2.11E-07	4.18	
S11V005929		14331-83-0	Actinium-228	uCi/g	n/a	n/a	8.55E-07	n/a	n/a	n/a	n/a	5.10E-07	22.06	
S11V005929		14274-82-9	Thorium-228	uCi/g	n/a	<1.16E-04	<4.83E-05	n/a	n/a	n/a	n/a	4.83E-05	n/a	U
S11V005929		15065-10-8	Thorium-234	uCi/g	n/a	<1.45E-05	<2.82E-06	n/a	n/a	n/a	n/a	2.82E-06	n/a	U
S11V005929		15046-84-1	Iodine-129	uCi/g	94.0	<1.96E-06	<1.15E-06	n/a	n/a	n/a	n/a	1.15E-06	n/a	U
S11V005930	O	12674-11-2	Aroclor 1016	ug/kg	n/a	<27.1	<28.3	n/a	n/a	n/a	n/a	28.3	n/a	U
S11V005930	O	11104-28-2	Aroclor 1221	ug/kg	n/a	<4.48	<4.68	n/a	n/a	n/a	n/a	4.68	n/a	U
S11V005930	O	11141-16-5	Aroclor 1232	ug/kg	n/a	<7.60	<7.93	n/a	n/a	n/a	n/a	7.93	n/a	U
S11V005930	O	53469-21-9	Aroclor 1242	ug/kg	n/a	<18.1	<18.9	n/a	n/a	n/a	n/a	18.9	n/a	U
S11V005930	O	12672-29-6	Aroclor 1248	ug/kg	n/a	<10.2	<10.7	n/a	n/a	n/a	n/a	10.7	n/a	U
S11V005930	O	11097-69-1	Aroclor 1254	ug/kg	93.1	<6.56	<6.85	n/a	n/a	n/a	n/a	6.85	n/a	U
S11V005930	O	11096-82-5	Aroclor 1260	ug/kg	n/a	<10.6	<11.1	n/a	n/a	n/a	n/a	11.1	n/a	U
S11V005931	A	7440-36-0	Antimony	ug/g	101	<2.00E-04	0.224	n/a	n/a	n/a	n/a	5.95E-03	n/a	

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM5
Sample Depth: 27'- 29'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005931	A	SN-117	Tin-117	ug/g	110	<1.00E-03	<0.0298	n/a	n/a	n/a	n/a	0.0298	n/a	U
S11V005931	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.91E-03	n/a	n/a	n/a	n/a	5.95E-04	n/a	E
S11V005932	W	16984-48-8	Fluoride	ug/g	99.9	<1.61E-03	1.04	n/a	n/a	n/a	n/a	0.0145	n/a	M
S11V005932	W	GLYCOLAT	Glycolate	ug/g	109	<9.37E-03	<0.0846	n/a	n/a	n/a	n/a	0.0846	n/a	U
S11V005932	W	71-50-1	Acetate	ug/g	107	<6.04E-03	<0.0546	n/a	n/a	n/a	n/a	0.0546	n/a	U
S11V005932	W	FORMATE	Formate	ug/g	98.7	<4.67E-03	0.254	n/a	n/a	n/a	n/a	0.0422	n/a	B
S11V005932	W	16887-00-6	Chloride	ug/g	96.6	<9.98E-03	0.715	n/a	n/a	n/a	n/a	0.0902	n/a	B
S11V005932	W	14797-65-0	Nitrite	ug/g	102	0.0348	0.424	n/a	n/a	n/a	n/a	0.173	n/a	CB
S11V005932	W	14808-79-8	Sulfate	ug/g	100	<0.0187	11.9	n/a	n/a	n/a	n/a	0.169	n/a	
S11V005932	W	338-70-5	Oxalate	ug/g	101	<0.0231	0.247	n/a	n/a	n/a	n/a	0.209	n/a	B
S11V005932	W	24959-67-9	Bromide	ug/g	83.4	<0.0580	<0.524	n/a	n/a	n/a	n/a	0.524	n/a	U
S11V005932	W	14797-55-8	Nitrate	ug/g	103	<0.0208	4.04	n/a	n/a	n/a	n/a	0.188	n/a	
S11V005932	W	14265-44-2	Phosphate	ug/g	93.8	<0.0167	0.529	n/a	n/a	n/a	n/a	0.151	n/a	BN
S11V005933	A	7429-90-5	Aluminum	ug/g	86.2	<0.0300	7.56E+03	n/a	n/a	n/a	n/a	4.00	n/a	
S11V005933	A	7440-39-3	Barium	ug/g	92.5	<3.00E-03	79.9	n/a	n/a	n/a	n/a	0.400	n/a	
S11V005933	A	7440-41-7	Beryllium	ug/g	97.4	<1.00E-03	0.235	n/a	n/a	n/a	n/a	0.133	n/a	B
S11V005933	A	7440-69-9	Bismuth	ug/g	89.0	<0.100	43.0	n/a	n/a	n/a	n/a	13.3	n/a	B
S11V005933	A	7440-70-2	Calcium	ug/g	81.2	0.0812	7.96E+03	n/a	n/a	n/a	n/a	6.67	n/a	
S11V005933	A	7440-45-1	Cerium	ug/g	95.3	<0.0300	17.4	n/a	n/a	n/a	n/a	4.00	n/a	B
S11V005933	A	7440-48-4	Cobalt	ug/g	87.0	<0.0100	8.09	n/a	n/a	n/a	n/a	1.33	n/a	B
S11V005933	A	7440-47-3	Chromium	ug/g	87.3	<5.00E-03	22.2	n/a	n/a	n/a	n/a	0.667	n/a	
S11V005933	A	7440-50-8	Copper	ug/g	96.5	<5.00E-03	13.1	n/a	n/a	n/a	n/a	0.667	n/a	
S11V005933	A	7439-89-6	Iron	ug/g	89.6	<5.00E-03	2.02E+04	n/a	n/a	n/a	n/a	0.667	n/a	
S11V005933	A	7440-09-7	Potassium	ug/g	84.7	<0.500	1.15E+03	n/a	n/a	n/a	n/a	66.7	n/a	
S11V005933	A	7439-91-0	Lanthanum	ug/g	95.8	<3.00E-03	9.54	n/a	n/a	n/a	n/a	0.400	n/a	
S11V005933	A	7439-93-2	Lithium	ug/g	96.0	<3.00E-03	8.93	n/a	n/a	n/a	n/a	0.400	n/a	
S11V005933	A	7439-95-4	Magnesium	ug/g	89.2	<0.0500	4.73E+03	n/a	n/a	n/a	n/a	6.67	n/a	
S11V005933	A	7439-96-5	Manganese	ug/g	86.4	<3.00E-03	364	n/a	n/a	n/a	n/a	0.400	n/a	

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM5
Sample Depth: 27'- 29'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005933	A	7439-98-7	Molybdenum	ug/g	84.3	<0.0200	<2.67	n/a	n/a	n/a	n/a	2.67	n/a	U
S11V005933	A	7440-23-5	Sodium	ug/g	95.9	<0.100	380	n/a	n/a	n/a	n/a	13.3	n/a	
S11V005933	A	7440-00-8	Neodymium	ug/g	94.3	<0.0100	9.51	n/a	n/a	n/a	n/a	1.33	n/a	B
S11V005933	A	7440-02-0	Nickel	ug/g	87.6	<0.0200	17.5	n/a	n/a	n/a	n/a	2.67	n/a	B
S11V005933	A	7723-14-0	Phosphorus	ug/g	86.0	<0.0500	551	n/a	n/a	n/a	n/a	6.67	n/a	
S11V005933	A	7704-34-9	Sulfur	ug/g	83.6	<0.100	41.9	n/a	n/a	n/a	n/a	13.3	n/a	BN
S11V005933	A	7440-21-3	Silicon	ug/g	80.6	<0.0300	77.3	n/a	n/a	n/a	n/a	4.00	n/a	N
S11V005933	A	7440-24-6	Strontium	ug/g	93.3	<3.00E-03	38.2	n/a	n/a	n/a	n/a	0.400	n/a	
S11V005933	A	7440-32-6	Titanium	ug/g	85.8	<5.00E-03	1.25E+03	n/a	n/a	n/a	n/a	0.667	n/a	
S11V005933	A	7440-62-2	Vanadium	ug/g	89.4	<5.00E-03	49.3	n/a	n/a	n/a	n/a	0.667	n/a	
S11V005933	A	7440-65-5	Yttrium	ug/g	90.6	<2.00E-03	6.96	n/a	n/a	n/a	n/a	0.267	n/a	
S11V005933	A	7440-66-6	Zinc	ug/g	87.4	<5.00E-03	37.5	n/a	n/a	n/a	n/a	0.667	n/a	
S11V005933	A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	9.01	n/a	n/a	n/a	n/a	0.667	n/a	NM
S11V005933	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.11E-05	n/a	n/a	n/a	n/a	3.11E-05	n/a	U
S11V005933	A	TH-232	Thorium-232	ug/g	97.4	<2.50E-04	2.42	n/a	n/a	n/a	n/a	2.22E-03	n/a	
S11V005933	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<8.90E-04	n/a	n/a	n/a	n/a	8.90E-04	n/a	U
S11V005933	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.22E-05	n/a	n/a	n/a	n/a	2.22E-05	n/a	U
S11V005933	A	15117-96-1	Uranium-235	ug/g	92.9	<5.00E-06	3.01E-03	n/a	n/a	n/a	n/a	4.45E-05	n/a	
S11V005933	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.78E-05	n/a	n/a	n/a	n/a	1.78E-05	n/a	U
S11V005933	A	13994-20-2	Neptunium-237	ug/g	98.2	<5.00E-05	<4.45E-04	n/a	n/a	n/a	n/a	4.45E-04	n/a	U
S11V005933	A	U-238	Uranium-238	ug/g	96.6	<2.50E-04	0.425	n/a	n/a	n/a	n/a	2.22E-03	n/a	
S11V005933	A	7440-22-4	Silver	ug/g	95.0	<4.00E-03	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S11V005933	A	7440-38-2	Arsenic	ug/g	116	0.0981	3.71	n/a	n/a	n/a	n/a	0.280	n/a	C
S11V005933	A	7440-43-9	Cadmium	ug/g	101	<3.00E-03	0.0842	n/a	n/a	n/a	n/a	0.0267	n/a	B
S11V005933	A	7439-92-1	Lead	ug/g	96.4	<7.50E-03	3.30	n/a	n/a	n/a	n/a	0.0667	n/a	
S11V005933	A	7782-49-2	Selenium	ug/g	87.1	<0.0675	<0.600	n/a	n/a	n/a	n/a	0.600	n/a	U
S11V005933	A	7440-28-0	Thallium	ug/g	101	0.0281	0.248	n/a	n/a	n/a	n/a	0.0178	n/a	C
S11V005934	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-05	<5.54E-04	n/a	n/a	n/a	n/a	5.54E-04	n/a	U

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J - Estimated
E - Estimated by Interference
U - Less Than Detection Limit

C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM5
Sample Depth: 27'- 29'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005935	W	14762-75-5	Carbon-14	uCi/g	96.6	<6.17E-07	<8.85E-07	n/a	n/a	n/a	n/a	8.85E-07	n/a	U
S11V005935	W	10028-17-8	Tritium	uCi/g	99.7	<2.09E-06	<2.18E-06	n/a	n/a	n/a	n/a	2.18E-06	n/a	U
S11V005936	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.04E-07	<2.30E-08	n/a	n/a	n/a	n/a	2.30E-08	n/a	U
S11V005936	E	14596-10-2	Americium-241	uCi/g	96.4	<4.01E-07	<2.93E-08	n/a	n/a	n/a	n/a	2.93E-08	n/a	U
S11V005936	E	15510-73-3	Curium-242	uCi/g	n/a	<1.67E-08	<1.26E-08	n/a	n/a	n/a	n/a	1.26E-08	n/a	U
S11V005936	E	PU-239/240	Plutonium-239/240	uCi/g	108	<6.88E-08	<4.96E-08	n/a	n/a	n/a	n/a	4.96E-08	n/a	U
S11V005936	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-08	<3.56E-08	n/a	n/a	n/a	n/a	3.56E-08	n/a	U
S11V005937	E	SR-89/90	Strontium-89/90	uCi/g	96.0	<1.70E-07	1.86E-07	n/a	n/a	n/a	n/a	1.80E-07	150.218	
S11V005938	E	13981-37-8	Nickel-63	uCi/g	93.1	<4.65E-06	<5.17E-06	n/a	n/a	n/a	n/a	5.17E-06	n/a	U
S11V005939	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.17E-06	<1.18E-06	n/a	n/a	n/a	n/a	1.18E-06	n/a	U
S11V006156	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	89.1	<77.4	<77.4	n/a	n/a	n/a	n/a	77.4	n/a	U
S11V006156	O	95-50-1	1,2-Dichlorobenzene	ug/kg	88.0	<101	<101	n/a	n/a	n/a	n/a	101	n/a	U
S11V006156	O	121-14-2	2,4-Dinitrotoluene	ug/kg	98.6	<38.1	<38.1	n/a	n/a	n/a	n/a	38.1	n/a	U
S11V006156	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	94.5	<44.0	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U
S11V006156	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	89.4	<49.5	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S11V006156	O	95-48-7	2-Methylphenol	ug/kg	89.9	<57.5	<57.5	n/a	n/a	n/a	n/a	57.5	n/a	U
S11V006156	O	88-75-5	2-Nitrophenol	ug/kg	90.2	<53.7	<53.7	n/a	n/a	n/a	n/a	53.7	n/a	U
S11V006156	O	65794-96-9	3 &4 Methylphenol	ug/kg	90.4	<51.4	<51.4	n/a	n/a	n/a	n/a	51.4	n/a	U
S11V006156	O	83-32-9	Acenaphthene	ug/kg	93.0	<17.6	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S11V006156	O	56-55-3	Benzo(a)anthracene	ug/kg	112	<37.8	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S11V006156	O	205-99-2	Benzo(b)fluoranthene	ug/kg	117	<48.9	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U
S11V006156	O	50-32-8	Benzo(a)pyrene	ug/kg	115	<41.2	<41.2	n/a	n/a	n/a	n/a	41.2	n/a	U
S11V006156	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	129	<590	<590	n/a	n/a	n/a	n/a	590	n/a	U
S11V006156	O	207-08-9	Benzo(k)fluoranthene	ug/kg	111	<39.1	<39.1	n/a	n/a	n/a	n/a	39.1	n/a	U
S11V006156	O	85-68-7	Butylbenzylphthalate	ug/kg	115	<50.0	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S11V006156	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	97.6	<43.2	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	UT
S11V006156	O	95-57-8	2-Chlorophenol	ug/kg	88.1	<66.5	<66.5	n/a	n/a	n/a	n/a	66.5	n/a	U
S11V006156	O	218-01-9	Chrysene	ug/kg	114	<81.4	<81.4	n/a	n/a	n/a	n/a	81.4	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM5
Sample Depth: 27'- 29'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006156	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	124	<51.1	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S11V006156	O	84-74-2	Di-n-butylphthalate	ug/kg	127	<562	<562	n/a	n/a	n/a	n/a	562	n/a	U
S11V006156	O	117-84-0	Di-n-octylphthalate	ug/kg	116	<47.7	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S11V006156	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	84.6	<58.1	<58.1	n/a	n/a	n/a	n/a	58.1	n/a	U
S11V006156	O	206-44-0	Fluoranthene	ug/kg	112	<35.4	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S11V006156	O	87-68-3	Hexachlorobutadiene	ug/kg	86.9	<69.7	<69.7	n/a	n/a	n/a	n/a	69.7	n/a	U
S11V006156	O	67-72-1	Hexachloroethane	ug/kg	75.9	<112	<112	n/a	n/a	n/a	n/a	112	n/a	UT
S11V006156	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	123	<51.0	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S11V006156	O	91-20-3	Naphthalene	ug/kg	88.2	<62.6	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S11V006156	O	98-95-3	Nitrobenzene	ug/kg	86.5	<64.6	<64.6	n/a	n/a	n/a	n/a	64.6	n/a	U
S11V006156	O	129-00-0	Pyrene	ug/kg	117	<62.9	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	UT
S11V006156	O	110-86-1	Pyridine	ug/kg	79.6	<65.0	<65.0	n/a	n/a	n/a	n/a	65.0	n/a	U
S11V006156	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S11V006156	O	128-37-0	BHT	ug/kg	83.7	<236	<235	n/a	n/a	n/a	n/a	235	n/a	UT
S11V006156	O	110-80-5	2-Ethoxyethanol	ug/kg	85.3	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S11V006156	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S11V006156	O	108-94-1	Cyclohexanone	ug/kg	78.2	<559	<559	n/a	n/a	n/a	n/a	559	n/a	U
S11V006156	O	59-89-2	N-Nitrosomorpholine	ug/kg	82.1	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S11V006157	S	14798-03-9	Ammonium	ug/g	98.7	<0.0120	<0.532	n/a	n/a	n/a	n/a	0.532	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM5 WE
Sample Depth: 27'- 29'

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006158			CONDUCT	Conductivity	uMHO/cm	104	0.826	186	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V006158		WV	14133-76-7	Technetium-99	ug/g	102	<6.00E-06	<5.83E-06	n/a	n/a	n/a	n/a	5.83E-06	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM6
Sample Depth: 64'- 66'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005947		%WATERA	%WATER-APD	%	n/a	n/a	2.920	2.900	2.910	0.6873	n/a	0.01000	n/a	
S11V005947		57-12-5	Cyanide	ug/g	100	<0.0370	<0.480	<0.479	n/a	n/a	98.4	0.480	n/a	U
S11V005947		WT%SOLID	Weight percent solids	%	n/a	n/a	97.1	97.1	97.1	0.0206	n/a	0.0100	n/a	
S11V005947		7439-97-6	Mercury	ug/g	101	<1.10E-05	<8.59E-04	n/a	n/a	n/a	97.8	8.59E-04	n/a	U
S11V005947		PH	pH	unitless	n/a	n/a	9.29	9.27	9.28	0.216	n/a	0.0100	n/a	
S11V005948		13966-00-2	Potassium-40	uCi/g	n/a	<8.09E-06	1.10E-05	n/a	n/a	n/a	n/a	3.00E-06	7.64	
S11V005948		10198-40-0	Cobalt-60	uCi/g	92.5	<2.46E-07	<1.16E-07	n/a	n/a	n/a	n/a	1.16E-07	n/a	U
S11V005948		14234-35-6	Antimony-125	uCi/g	n/a	<6.20E-07	<2.70E-07	n/a	n/a	n/a	n/a	2.70E-07	n/a	U
S11V005948		10045-97-3	Cesium-137	uCi/g	91.7	<4.67E-07	<1.80E-07	n/a	n/a	n/a	n/a	1.80E-07	n/a	U
S11V005948		14683-23-9	Europium-152	uCi/g	n/a	<6.90E-07	<3.01E-07	n/a	n/a	n/a	n/a	3.01E-07	n/a	U
S11V005948		15585-10-1	Europium-154	uCi/g	n/a	<8.06E-07	<2.63E-07	n/a	n/a	n/a	n/a	2.63E-07	n/a	U
S11V005948		14391-16-3	Europium-155	uCi/g	n/a	<7.61E-07	<3.56E-07	n/a	n/a	n/a	n/a	3.56E-07	n/a	U
S11V005948		14913-50-9	Thallium-208	uCi/g	n/a	<3.12E-07	2.00E-07	n/a	n/a	n/a	n/a	1.06E-07	15.66	
S11V005948		15092-94-1	Lead-212	uCi/g	n/a	<4.43E-07	3.58E-07	n/a	n/a	n/a	n/a	1.58E-07	13.50	
S11V005948		14733-03-0	Bismuth-214	uCi/g	n/a	<5.46E-07	7.32E-07	n/a	n/a	n/a	n/a	2.50E-07	13.11	
S11V005948		15067-28-4	Lead-214	uCi/g	n/a	<6.21E-07	5.18E-07	n/a	n/a	n/a	n/a	2.27E-07	15.25	
S11V005948		14331-83-0	Actinium-228	uCi/g	n/a	n/a	1.62E-06	n/a	n/a	n/a	n/a	3.32E-07	9.65	
S11V005948		14274-82-9	Thorium-228	uCi/g	n/a	<1.16E-04	<4.83E-05	n/a	n/a	n/a	n/a	4.83E-05	n/a	U
S11V005948		15065-10-8	Thorium-234	uCi/g	n/a	<1.45E-05	<1.06E-05	n/a	n/a	n/a	n/a	1.06E-05	n/a	U
S11V005948		15046-84-1	Iodine-129	uCi/g	94.0	<1.96E-06	<1.97E-06	n/a	n/a	n/a	n/a	1.97E-06	n/a	U
S11V005950	A	7440-36-0	Antimony	ug/g	107	<2.00E-04	0.0550	0.0665	0.0608	18.8	106	5.86E-03	n/a	B
S11V005950	A	SN-117	Tin-117	ug/g	104	<1.00E-03	<0.0293	<0.0291	n/a	n/a	104	0.0293	n/a	U
S11V005950	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	<5.86E-04	<5.82E-04	n/a	n/a	n/a	5.86E-04	n/a	U
S11V005951	W	16984-48-8	Fluoride	ug/g	96.3	<1.61E-03	0.908	0.841	0.875	7.68	94.0	0.0146	n/a	
S11V005951	W	GLYCOLAT	Glycolate	ug/g	107	<9.37E-03	<0.0849	<0.0848	n/a	n/a	105	0.0849	n/a	U
S11V005951	W	71-50-1	Acetate	ug/g	105	<6.04E-03	0.180	<0.0547	n/a	n/a	103	0.0548	n/a	B
S11V005951	W	FORMATE	Formate	ug/g	96.5	<4.67E-03	0.216	0.104	0.160	70.3	94.9	0.0423	n/a	B
S11V005951	W	16887-00-6	Chloride	ug/g	94.2	<9.98E-03	0.477	0.378	0.428	23.2	93.0	0.0905	n/a	

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM6
Sample Depth: 64'- 66'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005951	W	14797-65-0	Nitrite	ug/g	96.4	0.0200	1.58	1.90	1.74	18.8	92.5	0.174	n/a	B
S11V005951	W	14808-79-8	Sulfate	ug/g	98.5	0.0230	17.3	13.7	15.5	23.1	82.5	0.170	n/a	
S11V005951	W	338-70-5	Oxalate	ug/g	98.7	<0.0231	0.210	<0.209	n/a	n/a	74.7	0.209	n/a	B
S11V005951	W	24959-67-9	Bromide	ug/g	81.7	<0.0580	<0.526	n/a	n/a	n/a	80.7	0.526	n/a	U
S11V005951	W	14797-55-8	Nitrate	ug/g	101	<0.0208	4.60	3.41	4.01	29.6	98.3	0.189	n/a	
S11V005951	W	14265-44-2	Phosphate	ug/g	90.6	<0.0167	0.657	0.532	0.595	21.0	58.9	0.151	n/a	BN
S11V005952	A	7429-90-5	Aluminum	ug/g	86.2	<0.0300	6.52E+03	n/a	n/a	n/a	n/a	3.99	n/a	
S11V005952	A	7440-39-3	Barium	ug/g	92.5	<3.00E-03	60.8	n/a	n/a	n/a	n/a	0.399	n/a	
S11V005952	A	7440-41-7	Beryllium	ug/g	97.4	<1.00E-03	0.187	n/a	n/a	n/a	n/a	0.133	n/a	B
S11V005952	A	7440-69-9	Bismuth	ug/g	89.0	<0.100	40.2	n/a	n/a	n/a	n/a	13.3	n/a	B
S11V005952	A	7440-70-2	Calcium	ug/g	81.2	0.0812	7.52E+03	n/a	n/a	n/a	n/a	6.65	n/a	
S11V005952	A	7440-45-1	Cerium	ug/g	95.3	<0.0300	18.1	n/a	n/a	n/a	n/a	3.99	n/a	B
S11V005952	A	7440-48-4	Cobalt	ug/g	87.0	<0.0100	7.68	n/a	n/a	n/a	n/a	1.33	n/a	B
S11V005952	A	7440-47-3	Chromium	ug/g	87.3	<5.00E-03	16.4	n/a	n/a	n/a	n/a	0.665	n/a	
S11V005952	A	7440-50-8	Copper	ug/g	96.5	<5.00E-03	13.1	n/a	n/a	n/a	n/a	0.665	n/a	
S11V005952	A	7439-89-6	Iron	ug/g	89.6	<5.00E-03	2.11E+04	n/a	n/a	n/a	n/a	0.665	n/a	
S11V005952	A	7440-09-7	Potassium	ug/g	84.7	<0.500	774	n/a	n/a	n/a	n/a	66.5	n/a	
S11V005952	A	7439-91-0	Lanthanum	ug/g	95.8	<3.00E-03	10.0	n/a	n/a	n/a	n/a	0.399	n/a	
S11V005952	A	7439-93-2	Lithium	ug/g	96.0	<3.00E-03	6.57	n/a	n/a	n/a	n/a	0.399	n/a	
S11V005952	A	7439-95-4	Magnesium	ug/g	89.2	<0.0500	4.37E+03	n/a	n/a	n/a	n/a	6.65	n/a	
S11V005952	A	7439-96-5	Manganese	ug/g	86.4	<3.00E-03	279	n/a	n/a	n/a	n/a	0.399	n/a	
S11V005952	A	7439-98-7	Molybdenum	ug/g	84.3	<0.0200	<2.66	n/a	n/a	n/a	n/a	2.66	n/a	U
S11V005952	A	7440-23-5	Sodium	ug/g	95.9	<0.100	567	n/a	n/a	n/a	n/a	13.3	n/a	
S11V005952	A	7440-00-8	Neodymium	ug/g	94.3	<0.0100	10.4	n/a	n/a	n/a	n/a	1.33	n/a	B
S11V005952	A	7440-02-0	Nickel	ug/g	87.6	<0.0200	12.6	n/a	n/a	n/a	n/a	2.66	n/a	B
S11V005952	A	7723-14-0	Phosphorus	ug/g	86.0	<0.0500	812	n/a	n/a	n/a	n/a	6.65	n/a	
S11V005952	A	7704-34-9	Sulfur	ug/g	83.6	<0.100	55.2	n/a	n/a	n/a	n/a	13.3	n/a	BN
S11V005952	A	7440-21-3	Silicon	ug/g	80.6	<0.0300	82.9	n/a	n/a	n/a	n/a	3.99	n/a	N

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

C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM6
Sample Depth: 64'- 66'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005952	A	7440-24-6	Strontium	ug/g	93.3	<3.00E-03	36.2	n/a	n/a	n/a	n/a	0.399	n/a	
S11V005952	A	7440-32-6	Titanium	ug/g	85.8	<5.00E-03	1.53E+03	n/a	n/a	n/a	n/a	0.665	n/a	
S11V005952	A	7440-62-2	Vanadium	ug/g	89.4	<5.00E-03	55.6	n/a	n/a	n/a	n/a	0.665	n/a	
S11V005952	A	7440-65-5	Yttrium	ug/g	90.6	<2.00E-03	9.33	n/a	n/a	n/a	n/a	0.266	n/a	
S11V005952	A	7440-66-6	Zinc	ug/g	87.4	<5.00E-03	37.7	n/a	n/a	n/a	n/a	0.665	n/a	
S11V005952	A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	4.87	n/a	n/a	n/a	n/a	0.665	n/a	BNM
S11V005952	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.10E-05	n/a	n/a	n/a	n/a	3.10E-05	n/a	U
S11V005952	A	TH-232	Thorium-232	ug/g	97.4	<2.50E-04	1.99	n/a	n/a	n/a	n/a	2.22E-03	n/a	
S11V005952	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<8.87E-04	n/a	n/a	n/a	n/a	8.87E-04	n/a	U
S11V005952	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.22E-05	n/a	n/a	n/a	n/a	2.22E-05	n/a	U
S11V005952	A	15117-96-1	Uranium-235	ug/g	92.9	<5.00E-06	2.79E-03	n/a	n/a	n/a	n/a	4.44E-05	n/a	
S11V005952	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.77E-05	n/a	n/a	n/a	n/a	1.77E-05	n/a	U
S11V005952	A	13994-20-2	Neptunium-237	ug/g	98.2	<5.00E-05	<4.44E-04	n/a	n/a	n/a	n/a	4.44E-04	n/a	U
S11V005952	A	U-238	Uranium-238	ug/g	96.6	<2.50E-04	0.393	n/a	n/a	n/a	n/a	2.22E-03	n/a	
S11V005952	A	7440-22-4	Silver	ug/g	95.0	<4.00E-03	<0.0355	n/a	n/a	n/a	n/a	0.0355	n/a	U
S11V005952	A	7440-38-2	Arsenic	ug/g	116	0.0981	2.22	n/a	n/a	n/a	n/a	0.279	n/a	CB
S11V005952	A	7440-43-9	Cadmium	ug/g	101	<3.00E-03	0.0715	n/a	n/a	n/a	n/a	0.0266	n/a	B
S11V005952	A	7439-92-1	Lead	ug/g	96.4	<7.50E-03	2.39	n/a	n/a	n/a	n/a	0.0665	n/a	
S11V005952	A	7782-49-2	Selenium	ug/g	87.1	<0.0675	<0.599	n/a	n/a	n/a	n/a	0.599	n/a	U
S11V005952	A	7440-28-0	Thallium	ug/g	101	0.0281	0.186	n/a	n/a	n/a	n/a	0.0177	n/a	C
S11V005953	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-05	<5.67E-04	n/a	n/a	n/a	n/a	5.67E-04	n/a	U
S11V005954	W	14762-75-5	Carbon-14	uCi/g	80.8	7.24E-07	<6.09E-07	n/a	n/a	n/a	n/a	6.09E-07	n/a	U
S11V005954	W	10028-17-8	Tritium	uCi/g	99.7	<2.09E-06	<1.95E-06	n/a	n/a	n/a	n/a	1.95E-06	n/a	U
S11V005955	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.04E-07	<2.81E-08	n/a	n/a	n/a	n/a	2.81E-08	n/a	U
S11V005955	E	14596-10-2	Americium-241	uCi/g	96.4	<4.01E-07	<2.43E-08	n/a	n/a	n/a	n/a	2.43E-08	n/a	U
S11V005955	E	15510-73-3	Curium-242	uCi/g	n/a	<1.67E-08	<1.24E-08	n/a	n/a	n/a	n/a	1.24E-08	n/a	U
S11V005955	E	PU-239/240	Plutonium-239/240	uCi/g	108	<6.88E-08	<3.86E-08	n/a	n/a	n/a	n/a	3.86E-08	n/a	U
S11V005955	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-08	<4.15E-08	n/a	n/a	n/a	n/a	4.15E-08	n/a	U

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U - Less Than Detection Limit

C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM6
Sample Depth: 64'- 66'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005956	E	SR-89/90	Strontium-89/90	uCi/g	96.0	<1.70E-07	<5.97E-07	n/a	n/a	n/a	n/a	5.97E-07	n/a	U
S11V005957	E	13981-37-8	Nickel-63	uCi/g	93.1	<4.65E-06	3.82E-06	n/a	n/a	n/a	n/a	3.66E-06	112.798	
S11V005958	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.17E-06	<1.01E-06	n/a	n/a	n/a	n/a	1.01E-06	n/a	U
S11V006159	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	83.6	<77.4	<75.2	n/a	n/a	n/a	89.0	75.2	n/a	U
S11V006159	O	95-50-1	1,2-Dichlorobenzene	ug/kg	78.8	<101	<97.8	n/a	n/a	n/a	85.1	97.8	n/a	U
S11V006159	O	121-14-2	2,4-Dinitrotoluene	ug/kg	89.9	<38.1	<37.0	n/a	n/a	n/a	87.9	37.0	n/a	U
S11V006159	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	86.9	<44.0	<42.8	n/a	n/a	n/a	87.5	42.8	n/a	U
S11V006159	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	77.8	<49.5	<48.1	n/a	n/a	n/a	80.8	48.1	n/a	U
S11V006159	O	95-48-7	2-Methylphenol	ug/kg	78.9	<57.5	<55.9	n/a	n/a	n/a	82.9	55.9	n/a	U
S11V006159	O	88-75-5	2-Nitrophenol	ug/kg	83.1	<53.7	<52.2	n/a	n/a	n/a	88.1	52.2	n/a	U
S11V006159	O	65794-96-9	3 &4 Methylphenol	ug/kg	80.3	<51.4	<49.9	n/a	n/a	n/a	84.3	49.9	n/a	U
S11V006159	O	83-32-9	Acenaphthene	ug/kg	85.8	<17.6	<17.1	n/a	n/a	n/a	86.2	17.1	n/a	U
S11V006159	O	56-55-3	Benzo(a)anthracene	ug/kg	97.1	<37.8	<36.7	n/a	n/a	n/a	95.7	36.7	n/a	U
S11V006159	O	205-99-2	Benzo(b)fluoranthene	ug/kg	100	<48.9	<47.5	n/a	n/a	n/a	98.3	47.5	n/a	U
S11V006159	O	50-32-8	Benzo(a)pyrene	ug/kg	97.6	<41.2	<40.0	n/a	n/a	n/a	96.5	40.0	n/a	U
S11V006159	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	100	<590	<573	n/a	n/a	n/a	100	573	n/a	U
S11V006159	O	207-08-9	Benzo(k)fluoranthene	ug/kg	95.8	<39.1	<38.0	n/a	n/a	n/a	100	38.0	n/a	U
S11V006159	O	85-68-7	Butylbenzylphthalate	ug/kg	95.5	<50.0	<48.6	n/a	n/a	n/a	99.8	48.6	n/a	U
S11V006159	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	87.9	<43.2	<42.0	n/a	n/a	n/a	88.9	42.0	n/a	U
S11V006159	O	95-57-8	2-Chlorophenol	ug/kg	79.3	<66.5	<64.6	n/a	n/a	n/a	84.5	64.6	n/a	U
S11V006159	O	218-01-9	Chrysene	ug/kg	97.9	<81.4	<79.1	n/a	n/a	n/a	94.6	79.1	n/a	U
S11V006159	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	104	<51.1	<49.6	n/a	n/a	n/a	94.6	49.6	n/a	U
S11V006159	O	84-74-2	Di-n-butylphthalate	ug/kg	99.7	<562	<546	n/a	n/a	n/a	100	546	n/a	U
S11V006159	O	117-84-0	Di-n-octylphthalate	ug/kg	95.2	<47.7	<46.3	n/a	n/a	n/a	101	46.3	n/a	U
S11V006159	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	77.8	<58.1	<56.5	n/a	n/a	n/a	81.0	56.5	n/a	U
S11V006159	O	206-44-0	Fluoranthene	ug/kg	99.1	<35.4	<34.4	n/a	n/a	n/a	98.2	34.4	n/a	U
S11V006159	O	87-68-3	Hexachlorobutadiene	ug/kg	84.2	<69.7	<67.7	n/a	n/a	n/a	88.5	67.7	n/a	U
S11V006159	O	67-72-1	Hexachloroethane	ug/kg	69.4	<112	<109	n/a	n/a	n/a	73.7	109	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM6
Sample Depth: 64'- 66'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006159	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	102	<51.0	<49.6	n/a	n/a	n/a	93.5	49.6	n/a	U
S11V006159	O	91-20-3	Naphthalene	ug/kg	81.7	<62.6	<60.8	n/a	n/a	n/a	85.5	60.8	n/a	U
S11V006159	O	98-95-3	Nitrobenzene	ug/kg	81.6	<64.6	<62.8	n/a	n/a	n/a	85.1	62.8	n/a	U
S11V006159	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<36.4	n/a	n/a	n/a	n/a	36.4	n/a	U
S11V006159	O	129-00-0	Pyrene	ug/kg	95.7	<62.9	<61.1	n/a	n/a	n/a	99.4	61.1	n/a	U
S11V006159	O	110-86-1	Pyridine	ug/kg	70.7	<65.0	<63.2	n/a	n/a	n/a	70.9	63.2	n/a	U
S11V006159	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<105	n/a	n/a	n/a	n/a	105	n/a	U
S11V006159	O	128-37-0	BHT	ug/kg	76.9	<236	<229	n/a	n/a	n/a	73.6	229	n/a	U
S11V006159	O	110-80-5	2-Ethoxyethanol	ug/kg	69.8	<182	<177	n/a	n/a	n/a	76.9	177	n/a	U
S11V006159	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<104	n/a	n/a	n/a	n/a	104	n/a	U
S11V006159	O	108-94-1	Cyclohexanone	ug/kg	70.7	<559	<543	n/a	n/a	n/a	74.1	543	n/a	U
S11V006159	O	59-89-2	N-Nitrosomorpholine	ug/kg	76.6	<191	<186	n/a	n/a	n/a	80.1	186	n/a	U
S11V006160	S	14798-03-9	Ammonium	ug/g	96.4	<0.120	<0.480	<0.476	n/a	n/a	94.5	0.480	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM6 WE
Sample Depth: 64'- 66'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006161		CONDUCT	Conductivity	uMHO/cm	104	0.826	169	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V006161	WV	14133-76-7	Technetium-99	ug/g	102	<6.00E-06	<5.69E-06	n/a	n/a	n/a	n/a	5.69E-06	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM7
Sample Depth: 90'- 92'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005966		%WATERA	%WATER-APD	%	n/a	n/a	1.730	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005966		57-12-5	Cyanide	ug/g	99.9	<0.0370	<0.529	<0.530	n/a	n/a	95.5	0.529	n/a	U
S11V005966		WT%SOLID	Weight percent solids	%	n/a	n/a	98.3	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005966		7439-97-6	Mercury	ug/g	101	<1.10E-05	<8.58E-04	n/a	n/a	n/a	n/a	8.58E-04	n/a	U
S11V005966		PH	pH	unitless	n/a	n/a	9.26	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005967		13966-00-2	Potassium-40	uCi/g	n/a	<8.09E-06	1.22E-05	n/a	n/a	n/a	n/a	4.47E-06	9.60	
S11V005967		10198-40-0	Cobalt-60	uCi/g	92.5	<2.46E-07	<1.34E-07	n/a	n/a	n/a	n/a	1.34E-07	n/a	U
S11V005967		14234-35-6	Antimony-125	uCi/g	n/a	<6.20E-07	<3.98E-07	n/a	n/a	n/a	n/a	3.98E-07	n/a	U
S11V005967		10045-97-3	Cesium-137	uCi/g	91.7	<4.67E-07	<1.54E-07	n/a	n/a	n/a	n/a	1.54E-07	n/a	U
S11V005967		14683-23-9	Europium-152	uCi/g	n/a	<6.90E-07	<2.79E-07	n/a	n/a	n/a	n/a	2.79E-07	n/a	U
S11V005967		15585-10-1	Europium-154	uCi/g	n/a	<8.06E-07	<4.11E-07	n/a	n/a	n/a	n/a	4.11E-07	n/a	U
S11V005967		14391-16-3	Europium-155	uCi/g	n/a	<7.61E-07	<3.47E-07	n/a	n/a	n/a	n/a	3.47E-07	n/a	U
S11V005967		14913-50-9	Thallium-208	uCi/g	n/a	<3.12E-07	9.75E-07	n/a	n/a	n/a	n/a	1.29E-07	6.07	
S11V005967		15092-94-1	Lead-212	uCi/g	n/a	<4.43E-07	6.04E-07	n/a	n/a	n/a	n/a	2.28E-07	11.13	
S11V005967		14733-03-0	Bismuth-214	uCi/g	n/a	<5.46E-07	6.78E-07	n/a	n/a	n/a	n/a	3.61E-07	18.58	
S11V005967		15067-28-4	Lead-214	uCi/g	n/a	<6.21E-07	2.04E-06	n/a	n/a	n/a	n/a	2.87E-07	5.98	
S11V005967		14331-83-0	Actinium-228	uCi/g	n/a	n/a	7.37E-07	n/a	n/a	n/a	n/a	6.08E-07	26.06	
S11V005967		14274-82-9	Thorium-228	uCi/g	n/a	<1.16E-04	<5.12E-05	n/a	n/a	n/a	n/a	5.12E-05	n/a	U
S11V005967		15065-10-8	Thorium-234	uCi/g	n/a	<1.45E-05	<2.90E-06	n/a	n/a	n/a	n/a	2.90E-06	38.19	U
S11V005967		15046-84-1	Iodine-129	uCi/g	94.0	<1.96E-06	<1.66E-06	n/a	n/a	n/a	n/a	1.66E-06	n/a	U
S11V005969	A	7440-36-0	Antimony	ug/g	107	<2.00E-04	0.135	n/a	n/a	n/a	n/a	5.92E-03	n/a	
S11V005969	A	SN-117	Tin-117	ug/g	104	<1.00E-03	<0.0296	n/a	n/a	n/a	n/a	0.0296	n/a	U
S11V005969	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.16E-03	n/a	n/a	n/a	n/a	5.92E-04	n/a	E
S11V005970	W	16984-48-8	Fluoride	ug/g	96.3	<1.61E-03	0.507	n/a	n/a	n/a	n/a	0.0145	n/a	
S11V005970	W	GLYCOLAT	Glycolate	ug/g	107	<9.37E-03	<0.0832	n/a	n/a	n/a	n/a	0.0832	n/a	U
S11V005970	W	71-50-1	Acetate	ug/g	105	<6.04E-03	<0.0537	n/a	n/a	n/a	n/a	0.0537	n/a	U
S11V005970	W	FORMATE	Formate	ug/g	96.5	<4.67E-03	0.135	n/a	n/a	n/a	n/a	0.0415	n/a	B
S11V005970	W	16887-00-6	Chloride	ug/g	94.2	<9.98E-03	0.303	n/a	n/a	n/a	n/a	0.0887	n/a	B

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM7
Sample Depth: 90'- 92'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005970	W	14797-65-0	Nitrite	ug/g	96.4	0.0200	1.47	n/a	n/a	n/a	n/a	0.173	n/a	B
S11V005970	W	14808-79-8	Sulfate	ug/g	98.5	0.0230	15.5	n/a	n/a	n/a	n/a	0.166	n/a	
S11V005970	W	338-70-5	Oxalate	ug/g	98.7	<0.0231	<0.205	n/a	n/a	n/a	n/a	0.205	n/a	U
S11V005970	W	24959-67-9	Bromide	ug/g	81.7	<0.0580	<0.515	n/a	n/a	n/a	n/a	0.515	n/a	U
S11V005970	W	14797-55-8	Nitrate	ug/g	101	<0.0208	3.08	n/a	n/a	n/a	n/a	0.185	n/a	
S11V005970	W	14265-44-2	Phosphate	ug/g	90.6	<0.0167	0.188	n/a	n/a	n/a	n/a	0.151	n/a	BN
S11V005971	A	7429-90-5	Aluminum	ug/g	86.2	<0.0300	6.69E+03	n/a	n/a	n/a	n/a	4.14	n/a	
S11V005971	A	7440-39-3	Barium	ug/g	92.5	<3.00E-03	69.8	n/a	n/a	n/a	n/a	0.414	n/a	
S11V005971	A	7440-41-7	Beryllium	ug/g	97.4	<1.00E-03	0.220	n/a	n/a	n/a	n/a	0.138	n/a	B
S11V005971	A	7440-69-9	Bismuth	ug/g	89.0	<0.100	20.8	n/a	n/a	n/a	n/a	13.8	n/a	B
S11V005971	A	7440-70-2	Calcium	ug/g	81.2	0.0812	9.16E+03	n/a	n/a	n/a	n/a	6.91	n/a	
S11V005971	A	7440-45-1	Cerium	ug/g	95.3	<0.0300	16.3	n/a	n/a	n/a	n/a	4.14	n/a	B
S11V005971	A	7440-48-4	Cobalt	ug/g	87.0	<0.0100	6.16	n/a	n/a	n/a	n/a	1.38	n/a	B
S11V005971	A	7440-47-3	Chromium	ug/g	87.3	<5.00E-03	22.0	n/a	n/a	n/a	n/a	0.691	n/a	
S11V005971	A	7440-50-8	Copper	ug/g	96.5	<5.00E-03	10.8	n/a	n/a	n/a	n/a	0.691	n/a	
S11V005971	A	7439-89-6	Iron	ug/g	89.6	<5.00E-03	1.84E+04	n/a	n/a	n/a	n/a	0.691	n/a	
S11V005971	A	7440-09-7	Potassium	ug/g	84.7	<0.500	913	n/a	n/a	n/a	n/a	69.1	n/a	
S11V005971	A	7439-91-0	Lanthanum	ug/g	95.8	<3.00E-03	9.75	n/a	n/a	n/a	n/a	0.414	n/a	
S11V005971	A	7439-93-2	Lithium	ug/g	96.0	<3.00E-03	8.84	n/a	n/a	n/a	n/a	0.414	n/a	
S11V005971	A	7439-95-4	Magnesium	ug/g	89.2	<0.0500	5.10E+03	n/a	n/a	n/a	n/a	6.91	n/a	
S11V005971	A	7439-96-5	Manganese	ug/g	86.4	<3.00E-03	285	n/a	n/a	n/a	n/a	0.414	n/a	
S11V005971	A	7439-98-7	Molybdenum	ug/g	84.3	<0.0200	<2.76	n/a	n/a	n/a	n/a	2.76	n/a	U
S11V005971	A	7440-23-5	Sodium	ug/g	95.9	<0.100	274	n/a	n/a	n/a	n/a	13.8	n/a	
S11V005971	A	7440-00-8	Neodymium	ug/g	94.3	<0.0100	10.3	n/a	n/a	n/a	n/a	1.38	n/a	B
S11V005971	A	7440-02-0	Nickel	ug/g	87.6	<0.0200	15.7	n/a	n/a	n/a	n/a	2.76	n/a	B
S11V005971	A	7723-14-0	Phosphorus	ug/g	86.0	<0.0500	576	n/a	n/a	n/a	n/a	6.91	n/a	
S11V005971	A	7704-34-9	Sulfur	ug/g	83.6	<0.100	62.5	n/a	n/a	n/a	n/a	13.8	n/a	BN
S11V005971	A	7440-21-3	Silicon	ug/g	80.6	<0.0300	87.2	n/a	n/a	n/a	n/a	4.14	n/a	N

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM7
Sample Depth: 90'- 92'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005971	A	7440-24-6	Strontium	ug/g	93.3	<3.00E-03	33.0	n/a	n/a	n/a	n/a	0.414	n/a	
S11V005971	A	7440-32-6	Titanium	ug/g	85.8	<5.00E-03	1.04E+03	n/a	n/a	n/a	n/a	0.691	n/a	
S11V005971	A	7440-62-2	Vanadium	ug/g	89.4	<5.00E-03	40.0	n/a	n/a	n/a	n/a	0.691	n/a	
S11V005971	A	7440-65-5	Yttrium	ug/g	90.6	<2.00E-03	6.71	n/a	n/a	n/a	n/a	0.276	n/a	
S11V005971	A	7440-66-6	Zinc	ug/g	87.4	<5.00E-03	34.6	n/a	n/a	n/a	n/a	0.691	n/a	
S11V005971	A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	8.25	n/a	n/a	n/a	n/a	0.691	n/a	NM
S11V005971	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.22E-05	n/a	n/a	n/a	n/a	3.22E-05	n/a	U
S11V005971	A	TH-232	Thorium-232	ug/g	97.4	<2.50E-04	2.94	n/a	n/a	n/a	n/a	2.30E-03	n/a	
S11V005971	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<9.21E-04	n/a	n/a	n/a	n/a	9.21E-04	n/a	U
S11V005971	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.30E-05	n/a	n/a	n/a	n/a	2.30E-05	n/a	U
S11V005971	A	15117-96-1	Uranium-235	ug/g	92.9	<5.00E-06	3.19E-03	n/a	n/a	n/a	n/a	4.61E-05	n/a	
S11V005971	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.84E-05	n/a	n/a	n/a	n/a	1.84E-05	n/a	U
S11V005971	A	13994-20-2	Neptunium-237	ug/g	98.2	<5.00E-05	<4.61E-04	n/a	n/a	n/a	n/a	4.61E-04	n/a	U
S11V005971	A	U-238	Uranium-238	ug/g	96.6	<2.50E-04	0.457	n/a	n/a	n/a	n/a	2.30E-03	n/a	
S11V005971	A	7440-22-4	Silver	ug/g	95.0	<4.00E-03	0.0389	n/a	n/a	n/a	n/a	0.0368	n/a	B
S11V005971	A	7440-38-2	Arsenic	ug/g	116	0.0981	4.01	n/a	n/a	n/a	n/a	0.290	n/a	C
S11V005971	A	7440-43-9	Cadmium	ug/g	101	<3.00E-03	0.0865	n/a	n/a	n/a	n/a	0.0276	n/a	B
S11V005971	A	7439-92-1	Lead	ug/g	96.4	<7.50E-03	3.61	n/a	n/a	n/a	n/a	0.0691	n/a	
S11V005971	A	7782-49-2	Selenium	ug/g	87.1	<0.0675	<0.622	n/a	n/a	n/a	n/a	0.622	n/a	U
S11V005971	A	7440-28-0	Thallium	ug/g	101	0.0281	0.204	n/a	n/a	n/a	n/a	0.0184	n/a	C
S11V005972	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-05	<5.27E-04	n/a	n/a	n/a	n/a	5.27E-04	n/a	U
S11V005973	W	14762-75-5	Carbon-14	uCi/g	96.6	<6.17E-07	<1.01E-06	n/a	n/a	n/a	n/a	1.01E-06	n/a	U
S11V005973	W	10028-17-8	Tritium	uCi/g	99.7	<2.09E-06	<1.75E-06	n/a	n/a	n/a	n/a	1.75E-06	n/a	U
S11V005974	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.04E-07	<1.04E-08	n/a	n/a	n/a	n/a	1.04E-08	n/a	U
S11V005974	E	14596-10-2	Americium-241	uCi/g	96.4	<4.01E-07	<2.58E-08	n/a	n/a	n/a	n/a	2.58E-08	n/a	U
S11V005974	E	15510-73-3	Curium-242	uCi/g	n/a	<1.67E-08	<1.31E-08	n/a	n/a	n/a	n/a	1.31E-08	n/a	U
S11V005974	E	PU-239/240	Plutonium-239/240	uCi/g	108	<6.88E-08	<3.83E-08	n/a	n/a	n/a	n/a	3.83E-08	n/a	U
S11V005974	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-08	<2.62E-08	n/a	n/a	n/a	n/a	2.62E-08	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM7
Sample Depth: 90'- 92'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005975	E	SR-89/90	Strontium-89/90	uCi/g	96.0	<1.70E-07	<2.03E-07	n/a	n/a	n/a	n/a	2.03E-07	n/a	U
S11V005976	E	13981-37-8	Nickel-63	uCi/g	93.1	<4.65E-06	<3.23E-06	n/a	n/a	n/a	n/a	3.23E-06	n/a	U
S11V005977	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.17E-06	<1.08E-06	n/a	n/a	n/a	n/a	1.08E-06	n/a	U
S11V006162	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	83.6	<77.4	<77.0	n/a	n/a	n/a	n/a	77.0	n/a	U
S11V006162	O	95-50-1	1,2-Dichlorobenzene	ug/kg	78.8	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S11V006162	O	121-14-2	2,4-Dinitrotoluene	ug/kg	89.9	<38.1	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S11V006162	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	86.9	<44.0	<43.8	n/a	n/a	n/a	n/a	43.8	n/a	U
S11V006162	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	77.8	<49.5	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S11V006162	O	95-48-7	2-Methylphenol	ug/kg	78.9	<57.5	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S11V006162	O	88-75-5	2-Nitrophenol	ug/kg	83.1	<53.7	<53.5	n/a	n/a	n/a	n/a	53.5	n/a	U
S11V006162	O	65794-96-9	3 &4 Methylphenol	ug/kg	80.3	<51.4	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S11V006162	O	83-32-9	Acenaphthene	ug/kg	85.8	<17.6	<17.5	n/a	n/a	n/a	n/a	17.5	n/a	U
S11V006162	O	56-55-3	Benzo(a)anthracene	ug/kg	97.1	<37.8	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S11V006162	O	205-99-2	Benzo(b)fluoranthene	ug/kg	100	<48.9	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S11V006162	O	50-32-8	Benzo(a)pyrene	ug/kg	97.6	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S11V006162	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	100	<590	<588	n/a	n/a	n/a	n/a	588	n/a	U
S11V006162	O	207-08-9	Benzo(k)fluoranthene	ug/kg	95.8	<39.1	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S11V006162	O	85-68-7	Butylbenzylphthalate	ug/kg	95.5	<50.0	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S11V006162	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	87.9	<43.2	<43.0	n/a	n/a	n/a	n/a	43.0	n/a	U
S11V006162	O	95-57-8	2-Chlorophenol	ug/kg	79.3	<66.5	<66.2	n/a	n/a	n/a	n/a	66.2	n/a	U
S11V006162	O	218-01-9	Chrysene	ug/kg	97.9	<81.4	<81.0	n/a	n/a	n/a	n/a	81.0	n/a	U
S11V006162	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	104	<51.1	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S11V006162	O	84-74-2	Di-n-butylphthalate	ug/kg	99.7	<562	<560	n/a	n/a	n/a	n/a	560	n/a	U
S11V006162	O	117-84-0	Di-n-octylphthalate	ug/kg	95.2	<47.7	<47.5	n/a	n/a	n/a	n/a	47.5	n/a	U
S11V006162	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	77.8	<58.1	<57.8	n/a	n/a	n/a	n/a	57.8	n/a	U
S11V006162	O	206-44-0	Fluoranthene	ug/kg	99.1	<35.4	<35.2	n/a	n/a	n/a	n/a	35.2	n/a	U
S11V006162	O	87-68-3	Hexachlorobutadiene	ug/kg	84.2	<69.7	<69.4	n/a	n/a	n/a	n/a	69.4	n/a	U
S11V006162	O	67-72-1	Hexachloroethane	ug/kg	69.4	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM7
Sample Depth: 90'- 92'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006162	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	102	<51.0	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S11V006162	O	91-20-3	Naphthalene	ug/kg	81.7	<62.6	<62.3	n/a	n/a	n/a	n/a	62.3	n/a	U
S11V006162	O	98-95-3	Nitrobenzene	ug/kg	81.6	<64.6	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S11V006162	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S11V006162	O	129-00-0	Pyrene	ug/kg	95.7	<62.9	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S11V006162	O	110-86-1	Pyridine	ug/kg	70.7	<65.0	<64.7	n/a	n/a	n/a	n/a	64.7	n/a	U
S11V006162	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S11V006162	O	128-37-0	BHT	ug/kg	76.9	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S11V006162	O	110-80-5	2-Ethoxyethanol	ug/kg	69.8	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S11V006162	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S11V006162	O	108-94-1	Cyclohexanone	ug/kg	70.7	<559	<557	n/a	n/a	n/a	n/a	557	n/a	U
S11V006162	O	59-89-2	N-Nitrosomorpholine	ug/kg	76.6	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S11V006163	S	14798-03-9	Ammonium	ug/g	96.4	<0.120	<0.479	n/a	n/a	n/a	n/a	0.479	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM7 WE
Sample Depth: 90'- 92'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006164		CONDUCT	Conductivity	uMHO/cm	104	0.826	138	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V006164	WV	14133-76-7	Technetium-99	ug/g	102	<6.00E-06	<5.54E-06	n/a	n/a	n/a	n/a	5.54E-06	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM8
Sample Depth: 132'- 134'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005985		%WATERA	%WATER-APD	%	n/a	n/a	2.200	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V005985		57-12-5	Cyanide	ug/g	100	<0.0370	<0.481	n/a	n/a	n/a	n/a	0.481	n/a	U
S11V005985		WT%SOLID	Weight percent solids	%	n/a	n/a	97.8	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005985		7439-97-6	Mercury	ug/g	101	<1.10E-05	<8.47E-04	n/a	n/a	n/a	n/a	8.47E-04	n/a	U
S11V005985		PH	pH	unitless	n/a	n/a	9.33	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V005986		13966-00-2	Potassium-40	uCi/g	n/a	<8.09E-06	1.32E-05	n/a	n/a	n/a	n/a	3.42E-06	6.58	
S11V005986		10198-40-0	Cobalt-60	uCi/g	92.5	<2.46E-07	<1.19E-07	n/a	n/a	n/a	n/a	1.19E-07	n/a	U
S11V005986		14234-35-6	Antimony-125	uCi/g	n/a	<6.20E-07	<3.10E-07	n/a	n/a	n/a	n/a	3.10E-07	n/a	U
S11V005986		10045-97-3	Cesium-137	uCi/g	91.7	<4.67E-07	<1.13E-07	n/a	n/a	n/a	n/a	1.13E-07	n/a	U
S11V005986		14683-23-9	Europium-152	uCi/g	n/a	<6.90E-07	<3.35E-07	n/a	n/a	n/a	n/a	3.35E-07	n/a	U
S11V005986		15585-10-1	Europium-154	uCi/g	n/a	<8.06E-07	<3.14E-07	n/a	n/a	n/a	n/a	3.14E-07	n/a	U
S11V005986		14391-16-3	Europium-155	uCi/g	n/a	<7.61E-07	<2.11E-07	n/a	n/a	n/a	n/a	2.11E-07	n/a	U
S11V005986		14913-50-9	Thallium-208	uCi/g	n/a	<3.12E-07	9.12E-07	n/a	n/a	n/a	n/a	1.05E-07	5.24	
S11V005986		15092-94-1	Lead-212	uCi/g	n/a	<4.43E-07	6.34E-07	n/a	n/a	n/a	n/a	1.74E-07	8.17	
S11V005986		14733-03-0	Bismuth-214	uCi/g	n/a	<5.46E-07	7.27E-07	n/a	n/a	n/a	n/a	2.71E-07	12.48	
S11V005986		15067-28-4	Lead-214	uCi/g	n/a	<6.21E-07	2.11E-06	n/a	n/a	n/a	n/a	2.25E-07	4.59	
S11V005986		14331-83-0	Actinium-228	uCi/g	n/a	n/a	5.67E-07	n/a	n/a	n/a	n/a	4.69E-07	21.88	
S11V005986		14274-82-9	Thorium-228	uCi/g	n/a	<1.16E-04	<3.92E-05	n/a	n/a	n/a	n/a	3.92E-05	n/a	U
S11V005986		15065-10-8	Thorium-234	uCi/g	n/a	<1.45E-05	<2.04E-06	n/a	n/a	n/a	n/a	2.04E-06	n/a	U
S11V005986		15046-84-1	Iodine-129	uCi/g	94.0	<1.96E-06	<8.54E-07	n/a	n/a	n/a	n/a	8.54E-07	n/a	U
S11V005988	A	7440-36-0	Antimony	ug/g	107	<2.00E-04	0.109	n/a	n/a	n/a	n/a	5.81E-03	n/a	
S11V005988	A	SN-117	Tin-117	ug/g	104	<1.00E-03	<0.0290	n/a	n/a	n/a	n/a	0.0290	n/a	U
S11V005988	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.16E-03	n/a	n/a	n/a	n/a	5.81E-04	n/a	E
S11V005989	W	16984-48-8	Fluoride	ug/g	96.3	<1.61E-03	0.729	n/a	n/a	n/a	n/a	0.0146	n/a	
S11V005989	W	GLYCOLAT	Glycolate	ug/g	107	<9.37E-03	<0.0856	n/a	n/a	n/a	n/a	0.0856	n/a	U
S11V005989	W	71-50-1	Acetate	ug/g	105	<6.04E-03	<0.0552	n/a	n/a	n/a	n/a	0.0552	n/a	U
S11V005989	W	FORMATE	Formate	ug/g	96.5	<4.67E-03	0.157	n/a	n/a	n/a	n/a	0.0427	n/a	B
S11V005989	W	16887-00-6	Chloride	ug/g	94.2	<9.98E-03	0.487	n/a	n/a	n/a	n/a	0.0912	n/a	

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM8
Sample Depth: 132'- 134'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005989	W	14797-65-0	Nitrite	ug/g	96.4	0.0200	1.86	n/a	n/a	n/a	n/a	0.174	n/a	B
S11V005989	W	14808-79-8	Sulfate	ug/g	98.5	0.0230	41.5	n/a	n/a	n/a	n/a	0.171	n/a	
S11V005989	W	338-70-5	Oxalate	ug/g	98.7	<0.0231	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S11V005989	W	24959-67-9	Bromide	ug/g	81.7	<0.0580	<0.530	n/a	n/a	n/a	n/a	0.530	n/a	U
S11V005989	W	14797-55-8	Nitrate	ug/g	101	<0.0208	3.02	n/a	n/a	n/a	n/a	0.190	n/a	
S11V005989	W	14265-44-2	Phosphate	ug/g	90.6	<0.0167	0.272	n/a	n/a	n/a	n/a	0.152	n/a	BN
S11V005990	A	7429-90-5	Aluminum	ug/g	86.2	<0.0300	5.90E+03	n/a	n/a	n/a	n/a	4.17	n/a	
S11V005990	A	7440-39-3	Barium	ug/g	92.5	<3.00E-03	56.1	n/a	n/a	n/a	n/a	0.417	n/a	
S11V005990	A	7440-41-7	Beryllium	ug/g	97.4	<1.00E-03	0.209	n/a	n/a	n/a	n/a	0.139	n/a	B
S11V005990	A	7440-69-9	Bismuth	ug/g	89.0	<0.100	34.6	n/a	n/a	n/a	n/a	13.9	n/a	B
S11V005990	A	7440-70-2	Calcium	ug/g	81.2	0.0812	8.79E+03	n/a	n/a	n/a	n/a	6.94	n/a	
S11V005990	A	7440-45-1	Cerium	ug/g	95.3	<0.0300	14.3	n/a	n/a	n/a	n/a	4.17	n/a	B
S11V005990	A	7440-48-4	Cobalt	ug/g	87.0	<0.0100	7.01	n/a	n/a	n/a	n/a	1.39	n/a	B
S11V005990	A	7440-47-3	Chromium	ug/g	87.3	<5.00E-03	12.9	n/a	n/a	n/a	n/a	0.694	n/a	
S11V005990	A	7440-50-8	Copper	ug/g	96.5	<5.00E-03	10.3	n/a	n/a	n/a	n/a	0.694	n/a	
S11V005990	A	7439-89-6	Iron	ug/g	89.6	<5.00E-03	1.61E+04	n/a	n/a	n/a	n/a	0.694	n/a	
S11V005990	A	7440-09-7	Potassium	ug/g	84.7	<0.500	798	n/a	n/a	n/a	n/a	69.4	n/a	
S11V005990	A	7439-91-0	Lanthanum	ug/g	95.8	<3.00E-03	8.58	n/a	n/a	n/a	n/a	0.417	n/a	
S11V005990	A	7439-93-2	Lithium	ug/g	96.0	<3.00E-03	8.03	n/a	n/a	n/a	n/a	0.417	n/a	
S11V005990	A	7439-95-4	Magnesium	ug/g	89.2	<0.0500	4.69E+03	n/a	n/a	n/a	n/a	6.94	n/a	
S11V005990	A	7439-96-5	Manganese	ug/g	86.4	<3.00E-03	237	n/a	n/a	n/a	n/a	0.417	n/a	
S11V005990	A	7439-98-7	Molybdenum	ug/g	84.3	<0.0200	<2.78	n/a	n/a	n/a	n/a	2.78	n/a	U
S11V005990	A	7440-23-5	Sodium	ug/g	95.9	<0.100	234	n/a	n/a	n/a	n/a	13.9	n/a	
S11V005990	A	7440-00-8	Neodymium	ug/g	94.3	<0.0100	9.20	n/a	n/a	n/a	n/a	1.39	n/a	B
S11V005990	A	7440-02-0	Nickel	ug/g	87.6	<0.0200	11.2	n/a	n/a	n/a	n/a	2.78	n/a	B
S11V005990	A	7723-14-0	Phosphorus	ug/g	86.0	<0.0500	510	n/a	n/a	n/a	n/a	6.94	n/a	
S11V005990	A	7704-34-9	Sulfur	ug/g	83.6	<0.100	60.8	n/a	n/a	n/a	n/a	13.9	n/a	BN
S11V005990	A	7440-21-3	Silicon	ug/g	80.6	<0.0300	69.9	n/a	n/a	n/a	n/a	4.17	n/a	N

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM8
Sample Depth: 132'- 134'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005990	A	7440-24-6	Strontium	ug/g	93.3	<3.00E-03	31.7	n/a	n/a	n/a	n/a	0.417	n/a	
S11V005990	A	7440-32-6	Titanium	ug/g	85.8	<5.00E-03	911	n/a	n/a	n/a	n/a	0.694	n/a	
S11V005990	A	7440-62-2	Vanadium	ug/g	89.4	<5.00E-03	34.6	n/a	n/a	n/a	n/a	0.694	n/a	
S11V005990	A	7440-65-5	Yttrium	ug/g	90.6	<2.00E-03	6.32	n/a	n/a	n/a	n/a	0.278	n/a	
S11V005990	A	7440-66-6	Zinc	ug/g	87.4	<5.00E-03	30.5	n/a	n/a	n/a	n/a	0.694	n/a	
S11V005990	A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	8.20	n/a	n/a	n/a	n/a	0.694	n/a	NM
S11V005990	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.24E-05	n/a	n/a	n/a	n/a	3.24E-05	n/a	U
S11V005990	A	TH-232	Thorium-232	ug/g	97.4	<2.50E-04	2.66	n/a	n/a	n/a	n/a	2.31E-03	n/a	
S11V005990	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<9.26E-04	n/a	n/a	n/a	n/a	9.26E-04	n/a	U
S11V005990	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.31E-05	n/a	n/a	n/a	n/a	2.31E-05	n/a	U
S11V005990	A	15117-96-1	Uranium-235	ug/g	92.9	<5.00E-06	4.71E-03	n/a	n/a	n/a	n/a	4.63E-05	n/a	
S11V005990	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.85E-05	n/a	n/a	n/a	n/a	1.85E-05	n/a	U
S11V005990	A	13994-20-2	Neptunium-237	ug/g	98.2	<5.00E-05	<4.63E-04	n/a	n/a	n/a	n/a	4.63E-04	n/a	U
S11V005990	A	U-238	Uranium-238	ug/g	96.6	<2.50E-04	0.667	n/a	n/a	n/a	n/a	2.31E-03	n/a	
S11V005990	A	7440-22-4	Silver	ug/g	95.0	<4.00E-03	<0.0370	n/a	n/a	n/a	n/a	0.0370	n/a	U
S11V005990	A	7440-38-2	Arsenic	ug/g	116	0.0981	3.45	n/a	n/a	n/a	n/a	0.292	n/a	C
S11V005990	A	7440-43-9	Cadmium	ug/g	101	<3.00E-03	0.0702	n/a	n/a	n/a	n/a	0.0278	n/a	B
S11V005990	A	7439-92-1	Lead	ug/g	96.4	<7.50E-03	2.90	n/a	n/a	n/a	n/a	0.0694	n/a	
S11V005990	A	7782-49-2	Selenium	ug/g	87.1	<0.0675	<0.625	n/a	n/a	n/a	n/a	0.625	n/a	U
S11V005990	A	7440-28-0	Thallium	ug/g	101	0.0281	0.183	n/a	n/a	n/a	n/a	0.0185	n/a	CB
S11V005991	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-05	<5.58E-04	n/a	n/a	n/a	n/a	5.58E-04	n/a	U
S11V005992	W	14762-75-5	Carbon-14	uCi/g	96.6	<6.17E-07	<9.76E-07	n/a	n/a	n/a	n/a	9.76E-07	n/a	U
S11V005992	W	10028-17-8	Tritium	uCi/g	99.7	<2.09E-06	<1.84E-06	n/a	n/a	n/a	n/a	1.84E-06	n/a	U
S11V005993	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.79E-08	<3.10E-08	n/a	n/a	n/a	n/a	3.10E-08	n/a	U
S11V005993	E	14596-10-2	Americium-241	uCi/g	95.6	7.79E-07	<2.90E-08	n/a	n/a	n/a	n/a	2.90E-08	n/a	U
S11V005993	E	15510-73-3	Curium-242	uCi/g	n/a	<1.16E-08	<1.24E+08	n/a	n/a	n/a	n/a	1.24E-08	n/a	U
S11V005993	E	PU-239/240	Plutonium-239/240	uCi/g	108	<6.88E-08	<6.74E-08	n/a	n/a	n/a	n/a	6.74E-08	n/a	U
S11V005993	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-08	<3.34E-08	n/a	n/a	n/a	n/a	3.34E-08	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM8
Sample Depth: 132'- 134'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V005994	E	SR-89/90	Strontium-89/90	uCi/g	96.0	<1.70E-07	<2.08E-07	n/a	n/a	n/a	n/a	2.08E-07	n/a	U
S11V005995	E	13981-37-8	Nickel-63	uCi/g	93.1	<4.65E-06	<5.62E-06	n/a	n/a	n/a	n/a	5.62E-06	n/a	U
S11V005996	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.17E-06	<1.24E-06	n/a	n/a	n/a	n/a	1.24E-06	n/a	U
S11V006165	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	83.6	<77.4	<76.8	n/a	n/a	n/a	n/a	76.8	n/a	U
S11V006165	O	95-50-1	1,2-Dichlorobenzene	ug/kg	78.8	<101	<99.9	n/a	n/a	n/a	n/a	99.9	n/a	U
S11V006165	O	121-14-2	2,4-Dinitrotoluene	ug/kg	89.9	<38.1	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S11V006165	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	86.9	<44.0	<43.7	n/a	n/a	n/a	n/a	43.7	n/a	U
S11V006165	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	77.8	<49.5	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S11V006165	O	95-48-7	2-Methylphenol	ug/kg	78.9	<57.5	<57.0	n/a	n/a	n/a	n/a	57.0	n/a	U
S11V006165	O	88-75-5	2-Nitrophenol	ug/kg	83.1	<53.7	<53.3	n/a	n/a	n/a	n/a	53.3	n/a	U
S11V006165	O	65794-96-9	3 &4 Methylphenol	ug/kg	80.3	<51.4	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S11V006165	O	83-32-9	Acenaphthene	ug/kg	85.8	<17.6	<17.5	n/a	n/a	n/a	n/a	17.5	n/a	U
S11V006165	O	56-55-3	Benzo(a)anthracene	ug/kg	97.1	<37.8	<37.5	n/a	n/a	n/a	n/a	37.5	n/a	U
S11V006165	O	205-99-2	Benzo(b)fluoranthene	ug/kg	100	<48.9	<48.5	n/a	n/a	n/a	n/a	48.5	n/a	U
S11V006165	O	50-32-8	Benzo(a)pyrene	ug/kg	97.6	<41.2	<40.9	n/a	n/a	n/a	n/a	40.9	n/a	U
S11V006165	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	100	<590	<586	n/a	n/a	n/a	n/a	586	n/a	U
S11V006165	O	207-08-9	Benzo(k)fluoranthene	ug/kg	95.8	<39.1	<38.8	n/a	n/a	n/a	n/a	38.8	n/a	U
S11V006165	O	85-68-7	Butylbenzylphthalate	ug/kg	95.5	<50.0	<49.6	n/a	n/a	n/a	n/a	49.6	n/a	U
S11V006165	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	87.9	<43.2	<42.9	n/a	n/a	n/a	n/a	42.9	n/a	U
S11V006165	O	95-57-8	2-Chlorophenol	ug/kg	79.3	<66.5	<66.0	n/a	n/a	n/a	n/a	66.0	n/a	U
S11V006165	O	218-01-9	Chrysene	ug/kg	97.9	<81.4	<80.8	n/a	n/a	n/a	n/a	80.8	n/a	U
S11V006165	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	104	<51.1	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U
S11V006165	O	84-74-2	Di-n-butylphthalate	ug/kg	99.7	<562	<558	n/a	n/a	n/a	n/a	558	n/a	U
S11V006165	O	117-84-0	Di-n-octylphthalate	ug/kg	95.2	<47.7	<47.3	n/a	n/a	n/a	n/a	47.3	n/a	U
S11V006165	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	77.8	<58.1	<57.6	n/a	n/a	n/a	n/a	57.6	n/a	U
S11V006165	O	206-44-0	Fluoranthene	ug/kg	99.1	<35.4	<35.1	n/a	n/a	n/a	n/a	35.1	n/a	U
S11V006165	O	87-68-3	Hexachlorobutadiene	ug/kg	84.2	<69.7	<69.2	n/a	n/a	n/a	n/a	69.2	n/a	U
S11V006165	O	67-72-1	Hexachloroethane	ug/kg	69.4	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM8
Sample Depth: 132'- 134'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006165	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	102	<51.0	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S11V006165	O	91-20-3	Naphthalene	ug/kg	81.7	<62.6	<62.1	n/a	n/a	n/a	n/a	62.1	n/a	U
S11V006165	O	98-95-3	Nitrobenzene	ug/kg	81.6	<64.6	<64.1	n/a	n/a	n/a	n/a	64.1	n/a	U
S11V006165	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U
S11V006165	O	129-00-0	Pyrene	ug/kg	95.7	<62.9	<62.4	n/a	n/a	n/a	n/a	62.4	n/a	U
S11V006165	O	110-86-1	Pyridine	ug/kg	70.7	<65.0	<64.5	n/a	n/a	n/a	n/a	64.5	n/a	U
S11V006165	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S11V006165	O	128-37-0	BHT	ug/kg	76.9	<236	<234	n/a	n/a	n/a	n/a	234	n/a	U
S11V006165	O	110-80-5	2-Ethoxyethanol	ug/kg	69.8	<182	<181	n/a	n/a	n/a	n/a	181	n/a	U
S11V006165	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S11V006165	O	108-94-1	Cyclohexanone	ug/kg	70.7	<559	<555	n/a	n/a	n/a	n/a	555	n/a	U
S11V006165	O	59-89-2	N-Nitrosomorpholine	ug/kg	76.6	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S11V006166	S	14798-03-9	Ammonium	ug/g	96.4	<0.120	<0.477	n/a	n/a	n/a	n/a	0.477	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM8 WE
Sample Depth: 132'- 134'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006167		CONDUCT	Conductivity	uMHO/cm	104	0.826	178	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V006167	WV	14133-76-7	Technetium-99	ug/g	102	<6.00E-06	<5.67E-06	n/a	n/a	n/a	n/a	5.67E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

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N - MS/MSD Outside Range
B - Estimated
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C - Blank Contamination
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E - Estimated by Interference
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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM9
Sample Depth: 161.5'- 163.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006004		%WATERA	%WATER-APD	%	n/a	n/a	2.180	n/a	n/a	n/a	n/a	0.01000	n/a	
S11V006004		57-12-5	Cyanide	ug/g	100	<0.0370	<0.482	n/a	n/a	n/a	n/a	0.482	n/a	U
S11V006004		WT%SOLID	Weight percent solids	%	n/a	n/a	97.8	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V006004		7439-97-6	Mercury	ug/g	101	<1.10E-05	<8.69E-04	n/a	n/a	n/a	n/a	8.69E-04	n/a	U
S11V006004		PH	pH	unitless	n/a	n/a	9.17	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V006005		13966-00-2	Potassium-40	uCi/g	n/a	<8.09E-06	1.58E-05	n/a	n/a	n/a	n/a	3.93E-06	5.90	
S11V006005		10198-40-0	Cobalt-60	uCi/g	92.5	<2.46E-07	<1.30E-07	n/a	n/a	n/a	n/a	1.30E-07	n/a	U
S11V006005		14234-35-6	Antimony-125	uCi/g	n/a	<6.20E-07	<3.39E-07	n/a	n/a	n/a	n/a	3.39E-07	n/a	U
S11V006005		10045-97-3	Cesium-137	uCi/g	91.7	<4.67E-07	<1.30E-07	n/a	n/a	n/a	n/a	1.30E-07	n/a	U
S11V006005		14683-23-9	Europium-152	uCi/g	n/a	<6.90E-07	<3.92E-07	n/a	n/a	n/a	n/a	3.92E-07	n/a	U
S11V006005		15585-10-1	Europium-154	uCi/g	n/a	<8.06E-07	<3.63E-07	n/a	n/a	n/a	n/a	3.63E-07	n/a	U
S11V006005		14391-16-3	Europium-155	uCi/g	n/a	<7.61E-07	<3.03E-07	n/a	n/a	n/a	n/a	3.03E-07	n/a	U
S11V006005		14913-50-9	Thallium-208	uCi/g	n/a	<3.12E-07	1.02E-06	n/a	n/a	n/a	n/a	1.02E-07	3.76	
S11V006005		15092-94-1	Lead-212	uCi/g	n/a	<4.43E-07	7.69E-07	n/a	n/a	n/a	n/a	2.01E-07	7.79	
S11V006005		14733-03-0	Bismuth-214	uCi/g	n/a	<5.46E-07	7.98E-07	n/a	n/a	n/a	n/a	3.19E-07	13.96	
S11V006005		15067-28-4	Lead-214	uCi/g	n/a	<6.21E-07	2.12E-06	n/a	n/a	n/a	n/a	2.24E-07	3.79	
S11V006005		14331-83-0	Actinium-228	uCi/g	n/a	n/a	8.57E-07	n/a	n/a	n/a	n/a	5.39E-07	16.83	
S11V006005		14274-82-9	Thorium-228	uCi/g	n/a	<1.16E-04	<5.27E-05	n/a	n/a	n/a	n/a	5.27E-05	n/a	U
S11V006005		15065-10-8	Thorium-234	uCi/g	n/a	<1.45E-05	<2.41E-06	n/a	n/a	n/a	n/a	2.41E-06	n/a	U
S11V006005		15046-84-1	Iodine-129	uCi/g	94.0	<1.96E-06	<1.92E-06	n/a	n/a	n/a	n/a	1.92E-06	n/a	U
S11V006007	A	7440-36-0	Antimony	ug/g	107	<2.00E-04	0.169	n/a	n/a	n/a	n/a	5.86E-03	n/a	
S11V006007	A	SN-117	Tin-117	ug/g	104	<1.00E-03	<0.0293	n/a	n/a	n/a	n/a	0.0293	n/a	U
S11V006007	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	1.30E-03	n/a	n/a	n/a	n/a	5.86E-04	n/a	E
S11V006008	W	16984-48-8	Fluoride	ug/g	96.3	<1.61E-03	0.752	n/a	n/a	n/a	n/a	0.0145	n/a	
S11V006008	W	GLYCOLAT	Glycolate	ug/g	107	<9.37E-03	<0.0859	n/a	n/a	n/a	n/a	0.0859	n/a	U
S11V006008	W	71-50-1	Acetate	ug/g	105	<6.04E-03	<0.0554	n/a	n/a	n/a	n/a	0.0554	n/a	U
S11V006008	W	FORMATE	Formate	ug/g	96.5	<4.67E-03	0.157	n/a	n/a	n/a	n/a	0.0428	n/a	B
S11V006008	W	16887-00-6	Chloride	ug/g	94.2	<9.98E-03	0.728	n/a	n/a	n/a	n/a	0.0915	n/a	

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM9
Sample Depth: 161.5'- 163.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006008	W	14797-65-0	Nitrite	ug/g	96.4	0.0200	1.93	n/a	n/a	n/a	n/a	0.174	n/a	B
S11V006008	W	14808-79-8	Sulfate	ug/g	98.5	0.0230	15.0	n/a	n/a	n/a	n/a	0.171	n/a	
S11V006008	W	338-70-5	Oxalate	ug/g	98.7	<0.0231	<0.212	n/a	n/a	n/a	n/a	0.212	n/a	U
S11V006008	W	24959-67-9	Bromide	ug/g	81.7	<0.0580	<0.532	n/a	n/a	n/a	n/a	0.532	n/a	U
S11V006008	W	14797-55-8	Nitrate	ug/g	101	<0.0208	2.85	n/a	n/a	n/a	n/a	0.191	n/a	
S11V006008	W	14265-44-2	Phosphate	ug/g	90.6	<0.0167	<0.151	n/a	n/a	n/a	n/a	0.151	n/a	UN
S11V006009	A	7429-90-5	Aluminum	ug/g	86.2	<0.0300	6.31E+03	n/a	n/a	n/a	n/a	4.14	n/a	
S11V006009	A	7440-39-3	Barium	ug/g	92.5	<3.00E-03	54.4	n/a	n/a	n/a	n/a	0.414	n/a	
S11V006009	A	7440-41-7	Beryllium	ug/g	97.4	<1.00E-03	0.181	n/a	n/a	n/a	n/a	0.138	n/a	B
S11V006009	A	7440-69-9	Bismuth	ug/g	89.0	<0.100	16.3	n/a	n/a	n/a	n/a	13.8	n/a	B
S11V006009	A	7440-70-2	Calcium	ug/g	81.2	0.0812	9.61E+03	n/a	n/a	n/a	n/a	6.89	n/a	
S11V006009	A	7440-45-1	Cerium	ug/g	95.3	<0.0300	14.4	n/a	n/a	n/a	n/a	4.14	n/a	B
S11V006009	A	7440-48-4	Cobalt	ug/g	87.0	<0.0100	5.80	n/a	n/a	n/a	n/a	1.38	n/a	B
S11V006009	A	7440-47-3	Chromium	ug/g	87.3	<5.00E-03	21.4	n/a	n/a	n/a	n/a	0.689	n/a	
S11V006009	A	7440-50-8	Copper	ug/g	96.5	<5.00E-03	10.2	n/a	n/a	n/a	n/a	0.689	n/a	
S11V006009	A	7439-89-6	Iron	ug/g	89.6	<5.00E-03	1.55E+04	n/a	n/a	n/a	n/a	0.689	n/a	
S11V006009	A	7440-09-7	Potassium	ug/g	84.7	<0.500	948	n/a	n/a	n/a	n/a	68.9	n/a	
S11V006009	A	7439-91-0	Lanthanum	ug/g	95.8	<3.00E-03	8.58	n/a	n/a	n/a	n/a	0.414	n/a	
S11V006009	A	7439-93-2	Lithium	ug/g	96.0	<3.00E-03	9.23	n/a	n/a	n/a	n/a	0.414	n/a	
S11V006009	A	7439-95-4	Magnesium	ug/g	89.2	<0.0500	5.24E+03	n/a	n/a	n/a	n/a	6.89	n/a	
S11V006009	A	7439-96-5	Manganese	ug/g	86.4	<3.00E-03	259	n/a	n/a	n/a	n/a	0.414	n/a	
S11V006009	A	7439-98-7	Molybdenum	ug/g	84.3	<0.0200	<2.76	n/a	n/a	n/a	n/a	2.76	n/a	U
S11V006009	A	7440-23-5	Sodium	ug/g	95.9	<0.100	218	n/a	n/a	n/a	n/a	13.8	n/a	
S11V006009	A	7440-00-8	Neodymium	ug/g	94.3	<0.0100	9.33	n/a	n/a	n/a	n/a	1.38	n/a	B
S11V006009	A	7440-02-0	Nickel	ug/g	87.6	<0.0200	18.2	n/a	n/a	n/a	n/a	2.76	n/a	B
S11V006009	A	7723-14-0	Phosphorus	ug/g	86.0	<0.0500	477	n/a	n/a	n/a	n/a	6.89	n/a	
S11V006009	A	7704-34-9	Sulfur	ug/g	83.6	<0.100	59.9	n/a	n/a	n/a	n/a	13.8	n/a	BN
S11V006009	A	7440-21-3	Silicon	ug/g	80.6	<0.0300	79.9	n/a	n/a	n/a	n/a	4.14	n/a	N

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM9
Sample Depth: 161.5'- 163.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006009	A	7440-24-6	Strontium	ug/g	93.3	<3.00E-03	29.2	n/a	n/a	n/a	n/a	0.414	n/a	
S11V006009	A	7440-32-6	Titanium	ug/g	85.8	<5.00E-03	772	n/a	n/a	n/a	n/a	0.689	n/a	
S11V006009	A	7440-62-2	Vanadium	ug/g	89.4	<5.00E-03	30.8	n/a	n/a	n/a	n/a	0.689	n/a	
S11V006009	A	7440-65-5	Yttrium	ug/g	90.6	<2.00E-03	5.55	n/a	n/a	n/a	n/a	0.276	n/a	
S11V006009	A	7440-66-6	Zinc	ug/g	87.4	<5.00E-03	31.0	n/a	n/a	n/a	n/a	0.689	n/a	
S11V006009	A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	6.35	n/a	n/a	n/a	n/a	0.689	n/a	BNM
S11V006009	A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-06	<3.22E-05	n/a	n/a	n/a	n/a	3.22E-05	n/a	U
S11V006009	A	TH-232	Thorium-232	ug/g	97.4	<2.50E-04	3.37	n/a	n/a	n/a	n/a	2.30E-03	n/a	
S11V006009	A	13968-55-3	Uranium-233	ug/g	101	<1.00E-04	<9.19E-04	n/a	n/a	n/a	n/a	9.19E-04	n/a	U
S11V006009	A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-06	<2.30E-05	n/a	n/a	n/a	n/a	2.30E-05	n/a	U
S11V006009	A	15117-96-1	Uranium-235	ug/g	92.9	<5.00E-06	3.51E-03	n/a	n/a	n/a	n/a	4.59E-05	n/a	
S11V006009	A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-06	<1.84E-05	n/a	n/a	n/a	n/a	1.84E-05	n/a	U
S11V006009	A	13994-20-2	Neptunium-237	ug/g	98.2	<5.00E-05	<4.59E-04	n/a	n/a	n/a	n/a	4.59E-04	n/a	U
S11V006009	A	U-238	Uranium-238	ug/g	96.6	<2.50E-04	0.514	n/a	n/a	n/a	n/a	2.30E-03	n/a	
S11V006009	A	7440-22-4	Silver	ug/g	95.0	<4.00E-03	<0.0368	n/a	n/a	n/a	n/a	0.0368	n/a	U
S11V006009	A	7440-38-2	Arsenic	ug/g	116	0.0981	7.77	n/a	n/a	n/a	n/a	0.289	n/a	
S11V006009	A	7440-43-9	Cadmium	ug/g	101	<3.00E-03	0.0798	n/a	n/a	n/a	n/a	0.0276	n/a	B
S11V006009	A	7439-92-1	Lead	ug/g	96.4	<7.50E-03	3.65	n/a	n/a	n/a	n/a	0.0689	n/a	
S11V006009	A	7782-49-2	Selenium	ug/g	87.1	<0.0675	<0.620	n/a	n/a	n/a	n/a	0.620	n/a	U
S11V006009	A	7440-28-0	Thallium	ug/g	101	0.0281	0.162	n/a	n/a	n/a	n/a	0.0184	n/a	CB
S11V006010	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-05	<5.10E-04	n/a	n/a	n/a	n/a	5.10E-04	n/a	U
S11V006011	W	14762-75-5	Carbon-14	uCi/g	96.6	<6.17E-07	<1.19E-06	n/a	n/a	n/a	n/a	1.19E-06	n/a	U
S11V006011	W	10028-17-8	Tritium	uCi/g	99.7	<2.09E-06	<1.85E-06	n/a	n/a	n/a	n/a	1.85E-06	n/a	U
S11V006012	E	CM-243/244	Curium-243/244	uCi/g	n/a	<3.04E-07	<2.63E-08	n/a	n/a	n/a	n/a	2.63E-08	n/a	U
S11V006012	E	14596-10-2	Americium-241	uCi/g	96.4	<4.01E-07	<2.82E-08	n/a	n/a	n/a	n/a	2.82E-08	n/a	U
S11V006012	E	15510-73-3	Curium-242	uCi/g	n/a	<1.67E-08	<1.33E-08	n/a	n/a	n/a	n/a	1.33E-08	n/a	U
S11V006012	E	PU-239/240	Plutonium-239/240	uCi/g	108	<6.88E-08	<5.22E-08	n/a	n/a	n/a	n/a	5.22E-08	n/a	U
S11V006012	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.08E-08	<2.35E-08	n/a	n/a	n/a	n/a	2.35E-08	n/a	U

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C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM9
Sample Depth: 161.5'- 163.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006013	E	SR-89/90	Strontium-89/90	uCi/g	96.0	<1.70E-07	<1.69E-07	n/a	n/a	n/a	n/a	1.69E-07	n/a	U
S11V006014	E	13981-37-8	Nickel-63	uCi/g	93.1	<4.65E-06	<5.34E-06	n/a	n/a	n/a	n/a	5.34E-06	n/a	U
S11V006015	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.17E-06	<1.93E-06	n/a	n/a	n/a	n/a	1.93E-06	n/a	U
S11V006168	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	84.4	<77.4	<77.3	n/a	n/a	n/a	83.4	77.3	n/a	U
S11V006168	O	95-50-1	1,2-Dichlorobenzene	ug/kg	83.0	<101	<101	n/a	n/a	n/a	78.7	101	n/a	U
S11V006168	O	121-14-2	2,4-Dinitrotoluene	ug/kg	97.2	<38.1	<38.0	n/a	n/a	n/a	97.8	38.0	n/a	U
S11V006168	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	88.6	<44.0	<43.9	n/a	n/a	n/a	91.0	43.9	n/a	U
S11V006168	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	82.5	<49.5	<49.4	n/a	n/a	n/a	81.9	49.4	n/a	U
S11V006168	O	95-48-7	2-Methylphenol	ug/kg	80.3	<57.5	<57.4	n/a	n/a	n/a	78.3	57.4	n/a	U
S11V006168	O	88-75-5	2-Nitrophenol	ug/kg	84.3	<53.7	<53.6	n/a	n/a	n/a	82.7	53.6	n/a	U
S11V006168	O	65794-96-9	3 &4 Methylphenol	ug/kg	82.3	<51.4	<51.3	n/a	n/a	n/a	79.3	51.3	n/a	U
S11V006168	O	83-32-9	Acenaphthene	ug/kg	85.8	<17.6	<17.6	n/a	n/a	n/a	86.5	17.6	n/a	U
S11V006168	O	56-55-3	Benzo(a)anthracene	ug/kg	110	<37.8	<37.7	n/a	n/a	n/a	107	37.7	n/a	U
S11V006168	O	205-99-2	Benzo(b)fluoranthene	ug/kg	113	<48.9	<48.8	n/a	n/a	n/a	115	48.8	n/a	U
S11V006168	O	50-32-8	Benzo(a)pyrene	ug/kg	108	<41.2	<41.1	n/a	n/a	n/a	110	41.1	n/a	U
S11V006168	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	115	<590	<589	n/a	n/a	n/a	122	589	n/a	U
S11V006168	O	207-08-9	Benzo(k)fluoranthene	ug/kg	109	<39.1	<39.0	n/a	n/a	n/a	109	39.0	n/a	U
S11V006168	O	85-68-7	Butylbenzylphthalate	ug/kg	105	<50.0	<49.9	n/a	n/a	n/a	113	49.9	n/a	U
S11V006168	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	90.0	<43.2	<43.1	n/a	n/a	n/a	91.3	43.1	n/a	U
S11V006168	O	95-57-8	2-Chlorophenol	ug/kg	81.6	<66.5	<66.4	n/a	n/a	n/a	77.9	66.4	n/a	U
S11V006168	O	218-01-9	Chrysene	ug/kg	107	<81.4	<81.3	n/a	n/a	n/a	113	81.3	n/a	U
S11V006168	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	104	<51.1	<51.0	n/a	n/a	n/a	110	51.0	n/a	U
S11V006168	O	84-74-2	Di-n-butylphthalate	ug/kg	109	<562	<561	n/a	n/a	n/a	114	561	n/a	U
S11V006168	O	117-84-0	Di-n-octylphthalate	ug/kg	110	<47.7	<47.6	n/a	n/a	n/a	111	47.6	n/a	U
S11V006168	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	78.3	<58.1	<58.0	n/a	n/a	n/a	75.8	58.0	n/a	U
S11V006168	O	206-44-0	Fluoranthene	ug/kg	111	<35.4	<35.3	n/a	n/a	n/a	108	35.3	n/a	U
S11V006168	O	87-68-3	Hexachlorobutadiene	ug/kg	84.3	<69.7	<69.6	n/a	n/a	n/a	82.1	69.6	n/a	U
S11V006168	O	67-72-1	Hexachloroethane	ug/kg	72.9	<112	<112	n/a	n/a	n/a	70.2	112	n/a	UT

NA = Not Analyzed, ND = Not Detected

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

C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM9
Sample Depth: 161.5'- 163.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006168	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	102	<51.0	<50.9	n/a	n/a	n/a	108	50.9	n/a	U
S11V006168	O	91-20-3	Naphthalene	ug/kg	81.7	<62.6	<62.5	n/a	n/a	n/a	80.6	62.5	n/a	U
S11V006168	O	98-95-3	Nitrobenzene	ug/kg	81.6	<64.6	<64.5	n/a	n/a	n/a	79.6	64.5	n/a	U
S11V006168	O	87-86-5	Pentachlorophenol	ug/kg	n/a	<37.5	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S11V006168	O	129-00-0	Pyrene	ug/kg	107	<62.9	<62.8	n/a	n/a	n/a	114	62.8	n/a	UT
S11V006168	O	110-86-1	Pyridine	ug/kg	71.6	<65.0	<64.9	n/a	n/a	n/a	65.1	64.9	n/a	UT
S11V006168	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S11V006168	O	128-37-0	BHT	ug/kg	74.7	<236	<235	n/a	n/a	n/a	74.3	235	n/a	U
S11V006168	O	110-80-5	2-Ethoxyethanol	ug/kg	73.9	<182	<182	n/a	n/a	n/a	71.1	182	n/a	U
S11V006168	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S11V006168	O	108-94-1	Cyclohexanone	ug/kg	72.0	<559	<558	n/a	n/a	n/a	69.8	558	n/a	UT
S11V006168	O	59-89-2	N-Nitrosomorpholine	ug/kg	79.3	<191	<191	n/a	n/a	n/a	74.8	191	n/a	U
S11V006169	S	14798-03-9	Ammonium	ug/g	101	<0.120	<0.476	<0.478	n/a	n/a	99.5	0.476	n/a	U

NA = Not Analyzed, ND = Not Detected

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

C Farm WMC 2011-C8106
Data Summary Report

Sample Group: 20111362
Core Number: C8106
Customer Sample ID: B2FYM9 WE
Sample Depth: 161.5'- 163.5'

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S11V006170		CONDUCT	Conductivity	uMHO/cm	104	0.826	151	n/a	n/a	n/a	n/a	0.0100	n/a	
S11V006170	WV	14133-76-7	Technetium-99	ug/g	102	<6.00E-06	<5.62E-06	n/a	n/a	n/a	n/a	5.62E-06	n/a	U

NA = Not Analyzed, ND = Not Detected

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

Attachment 2

SAMPLE BREAKDOWN DIAGRAMS

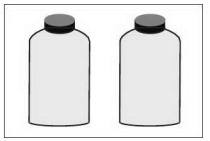
C Farm 2011
Core No. C8102
Group 20110761(ATL)
Group 20110762 (Offsite)

Segment No. Equipment Blank
Customer ID: B2B1N7

S11V004715
SVOA
PCB

S11V004716
ICP/MS Rad Isotopes
ICP-Metals
Mercury

S11V004717
Iodine-129
Tritium
Carbon-14



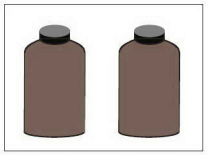
S11V004718
GEA
Iso-Plutonium
Am-241, Iso-Curium
Strontium 89/90
Nickel-63
Selenium-79

S11V004719
IC - Anion/Org Acids
pH

S11V004720
Cyanide

S11V004721
IC-Ammonium

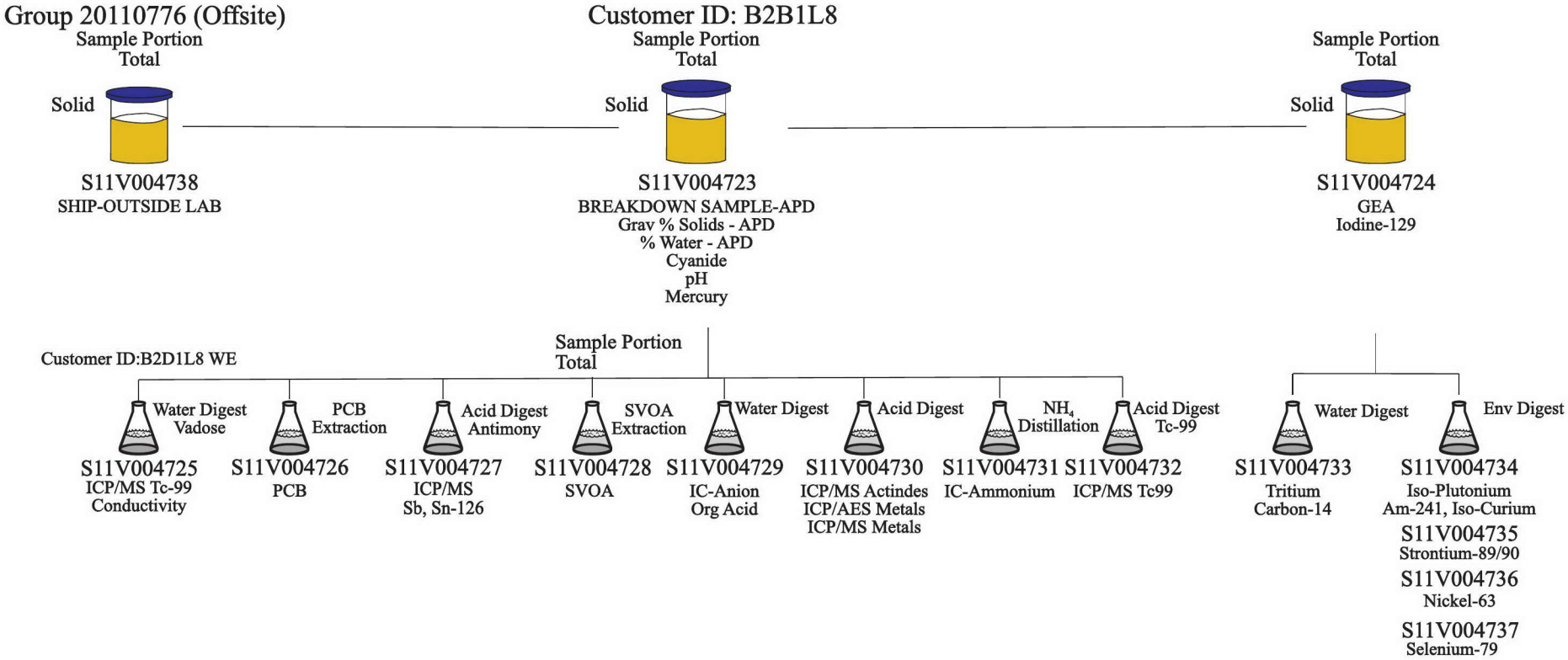
Group 20110762(Offsite Liquid)



S11V004722
SHIP - OUTSIDE LAB
(Pesticides)

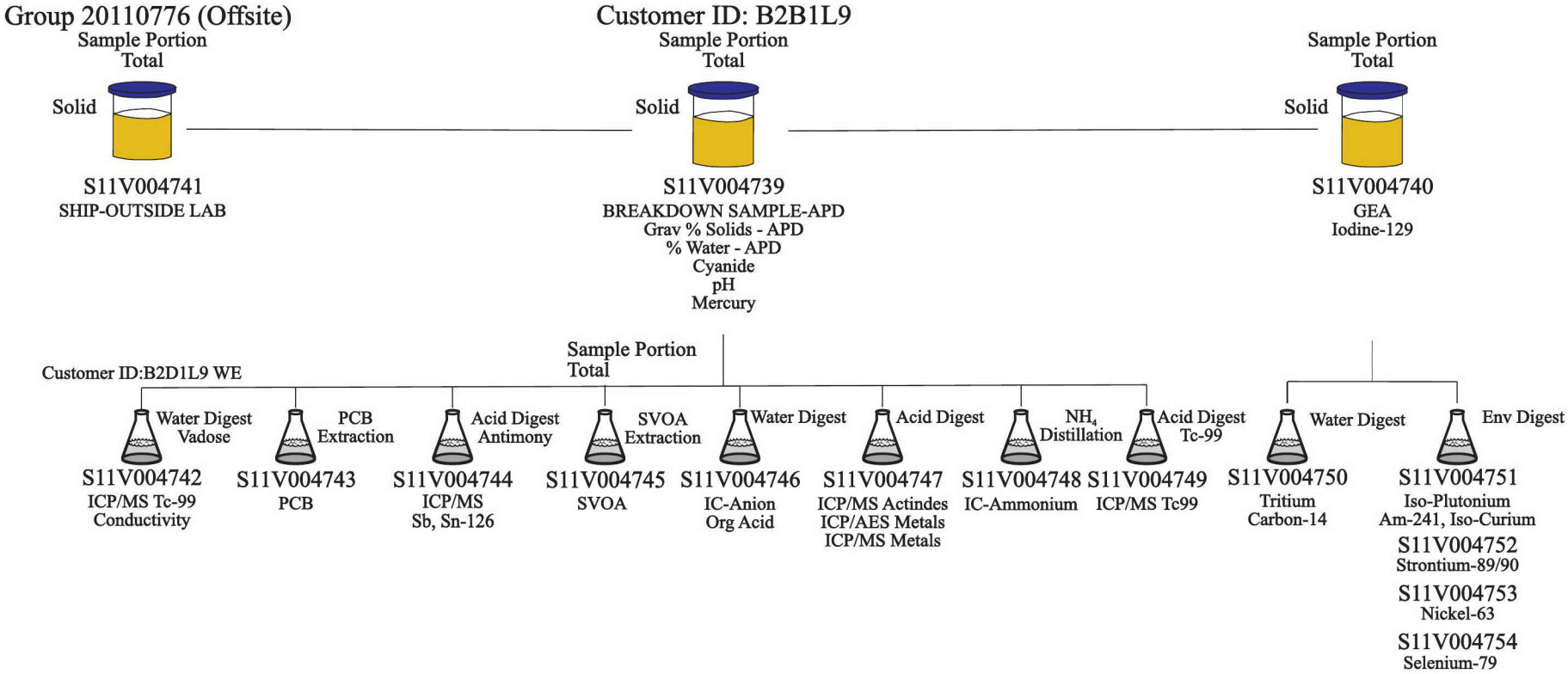
C Farm 2011
Core No. C8102
Group 20110763 (ATL)
Group 20110776 (Offsite)

Sample Depth: Surface
Segment No: Surface



C Farm 2011
Core No. C8102
Group 20110763 (ATL)
Group 20110776 (Offsite)

Sample Depth: Surface Dup
Segment No: Surface Dup



C Farm 2011
Core No. C8102
Group 20110763 (ATL)
Group 20110776 (Offsite)

Sample Depth: 5.7'-9.7'
Segment No: I001+2

Seg No. I001
Customer ID: B2D1P8
Shoe
S11V004758
BREAKDOWN SAMPLE - APD

Seg No. I001
Customer ID: B2D1P9
Solid
Sample Portion
Liner A
S11V004755
BREAKDOWN SAMPLE - APD
Bulk Density-Vadose

Seg No. I001
Customer ID: B2D1R0
Solid
Sample Portion
Liner B
S11V004756
BREAKDOWN SAMPLE - APD

Seg No. I001
Customer ID: B2D1R1
Solid
Sample Portion
Liner C
S11V004757
BREAKDOWN SAMPLE - APD

Seg No. I002
Customer ID: B2D1R3
Solid
Sample Portion
Liner A
S11V004775
BREAKDOWN SAMPLE - APD

Seg No. I002
Customer ID: B2D1R4
Solid
Sample Portion
Liner B
S11V004776
BREAKDOWN SAMPLE - APD

Seg No. I002
Customer ID: B2D1R2
Shoe
S11V004778
BREAKDOWN SAMPLE - APD

Group 20110776 (Offsite)
Sample Portion
Composite
Solid
S11V004781
SHIP-OUTSIDE LAB

Customer ID: B2D1X2
Sample Portion
Composite
Solid
S11V004779
Composite -APD
Grav % Solids - APD
% Water - APD
Cyanide
pH
Mercury

Sample Depth: 5.7'-9.7'
Segment No: I001+2

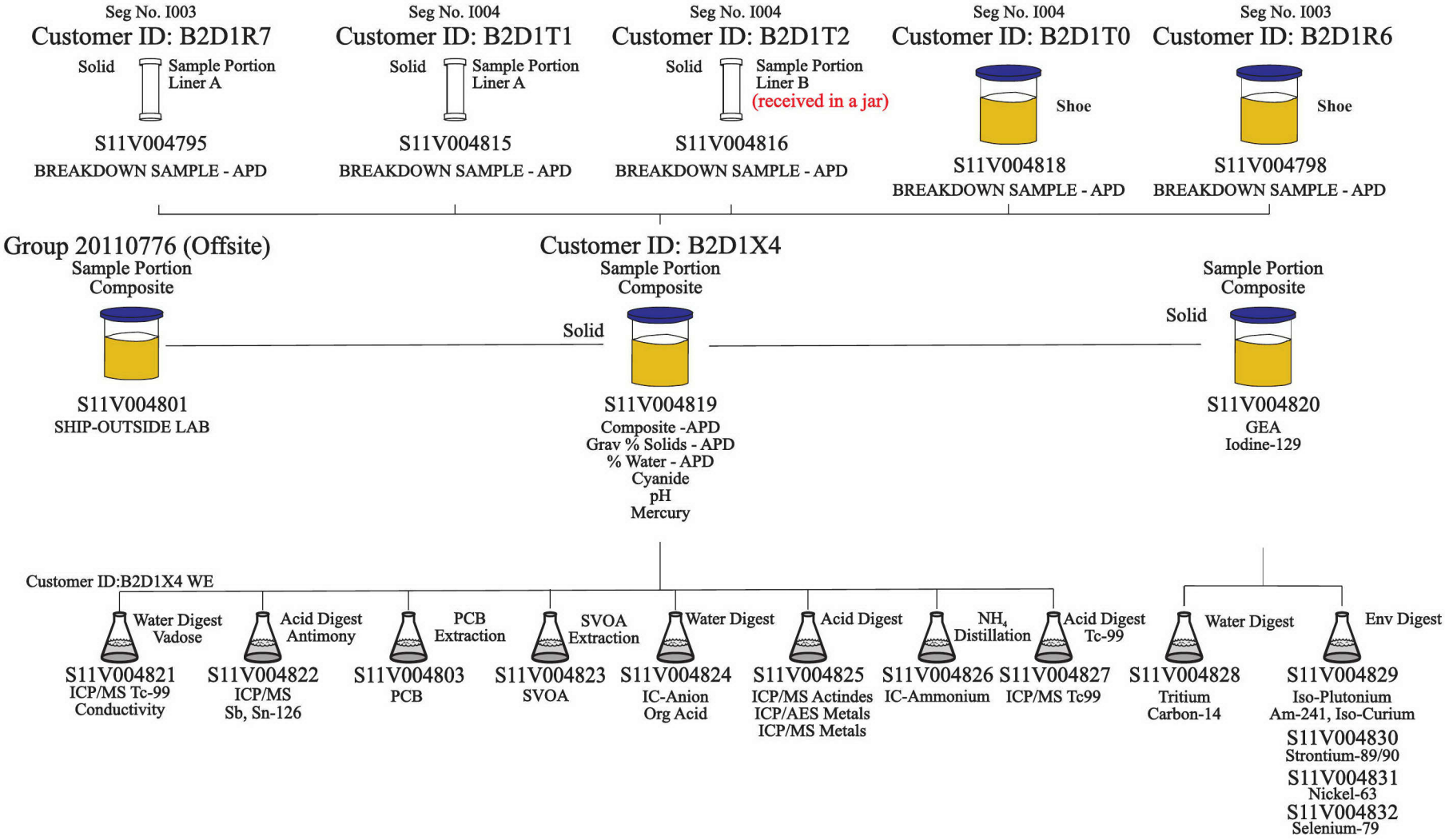
Sample Portion
Composite
Solid
S11V004780
GEA
Iodine-129

Customer ID:B2D1X2 WE

- Water Digest Vadose → S11V004782 ICP/MS Tc-99 Conductivity
- PCB Extraction → S11V004783 PCB
- Acid Digest Antimony → S11V004784 ICP/MS Sb, Sn-126
- SVOA Extraction → S11V004785 SVOA
- Water Digest → S11V004786 IC-Anion Org Acid
- Acid Digest → S11V004787 ICP/MS Actindes ICP/AES Metals ICP/MS Metals
- NH_4 Distillation → S11V004788 IC-Ammonium
- Acid Digest Tc-99 → S11V004789 ICP/MS Tc99
- Water Digest → S11V004790 Tritium Carbon-14
- Env Digest → S11V004791 Iso-Plutonium Am-241, Iso-Curium
  - S11V004792 Strontium-89/90
  - S11V004793 Nickel-63
  - S11V004794 Selenium-79

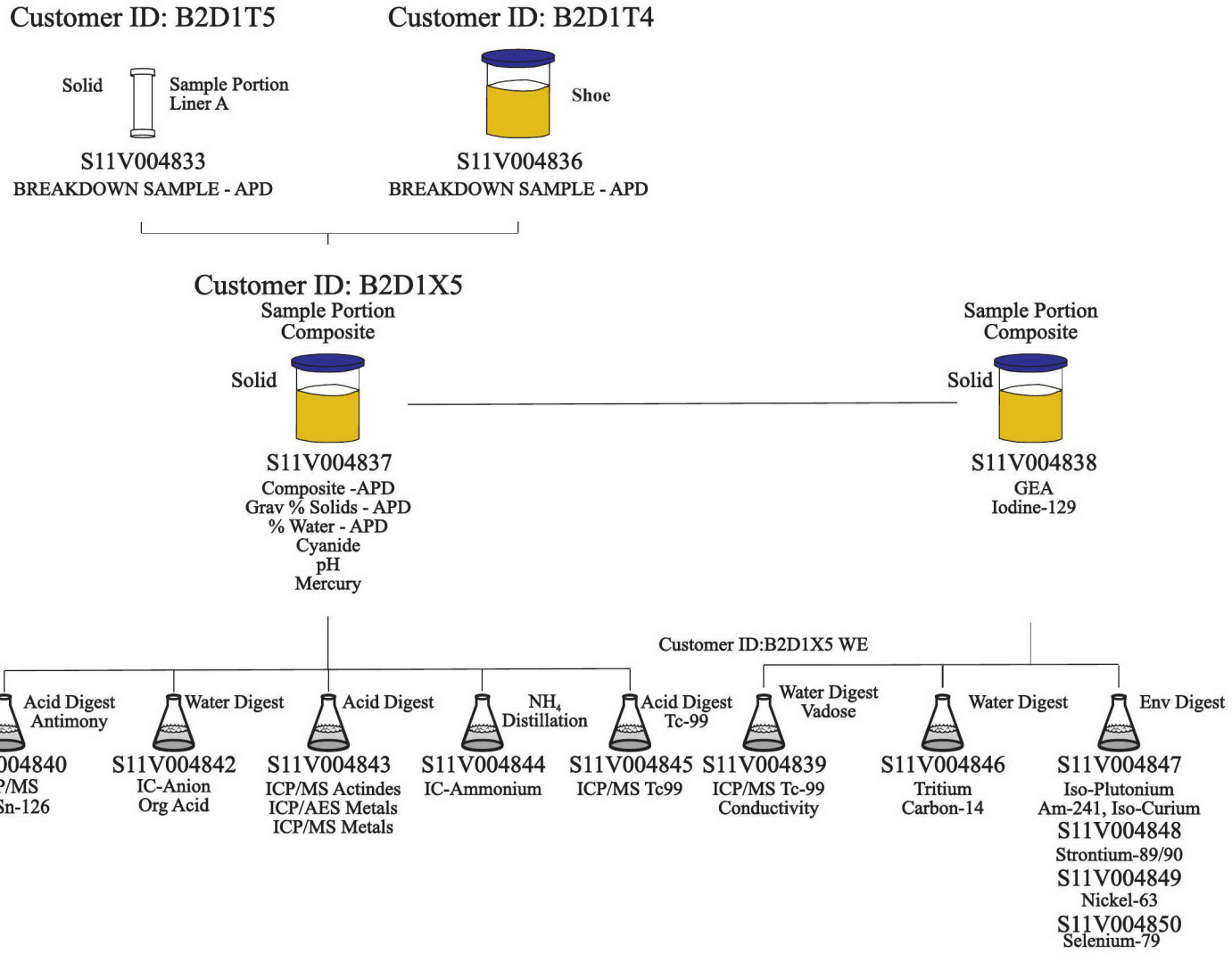
C Farm 2011
Core No. C8102
Group 20110763 (ATL)
Group 20110776 (Offsite)

Sample Depth: 11.5'-15.5'
Segment No: I003 + 4



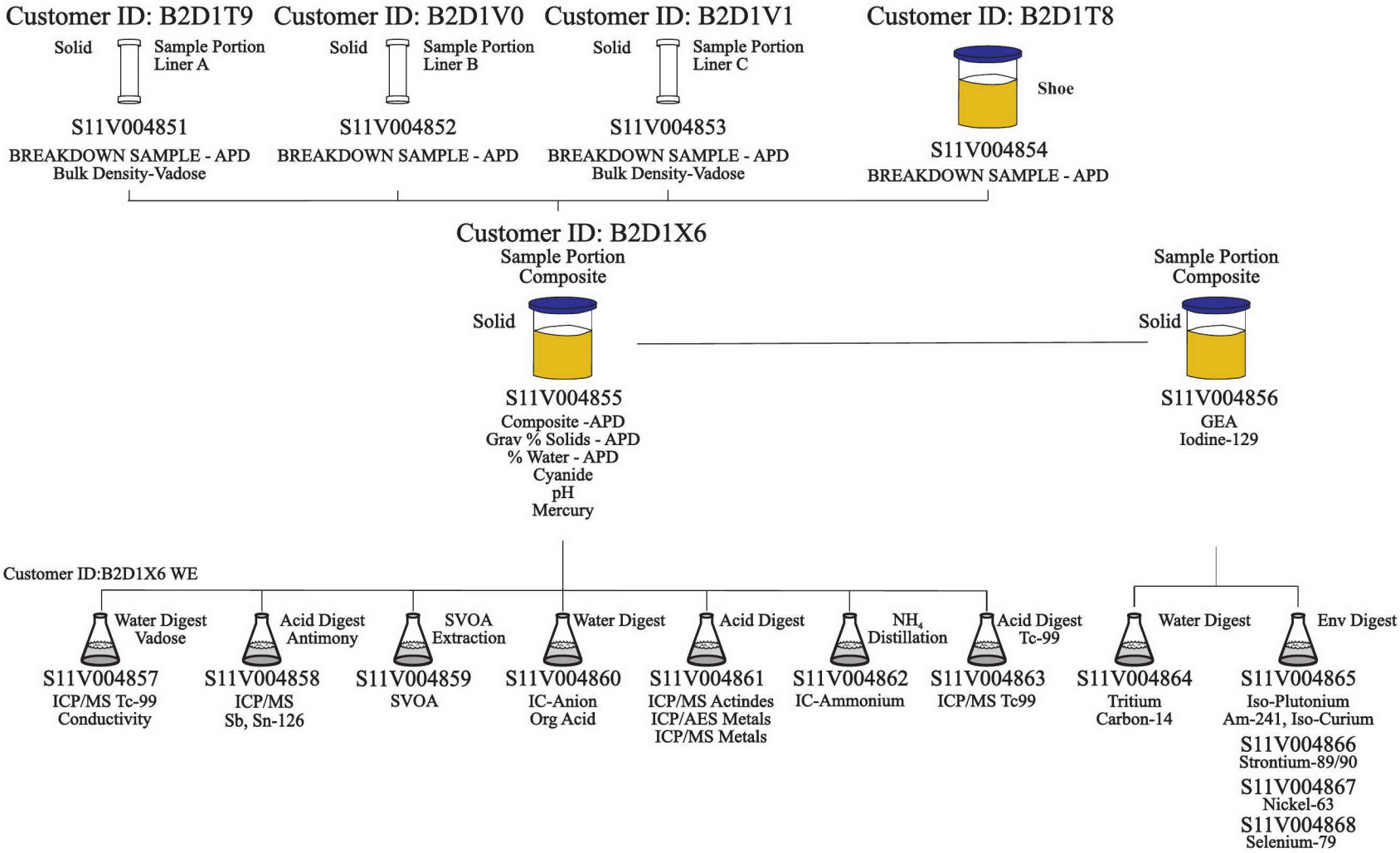
C Farm 2011
Core No. C8102
Group 20110763

Sample Depth: 16.1'-18.1'
Segment No: I005



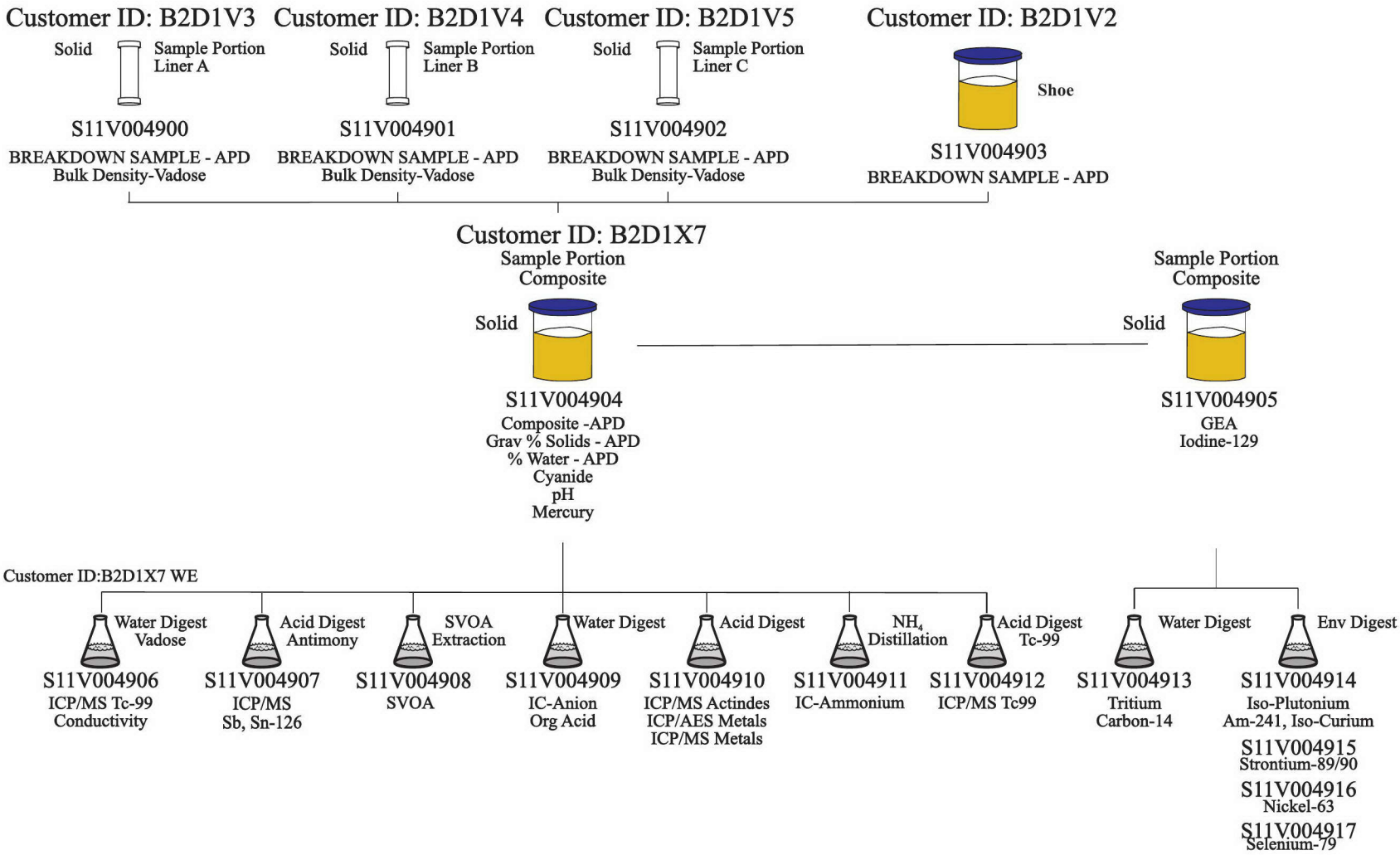
C Farm 2011
Core No. C8102
Group 20110763

Sample Depth: 65'-67'
Segment No: I006



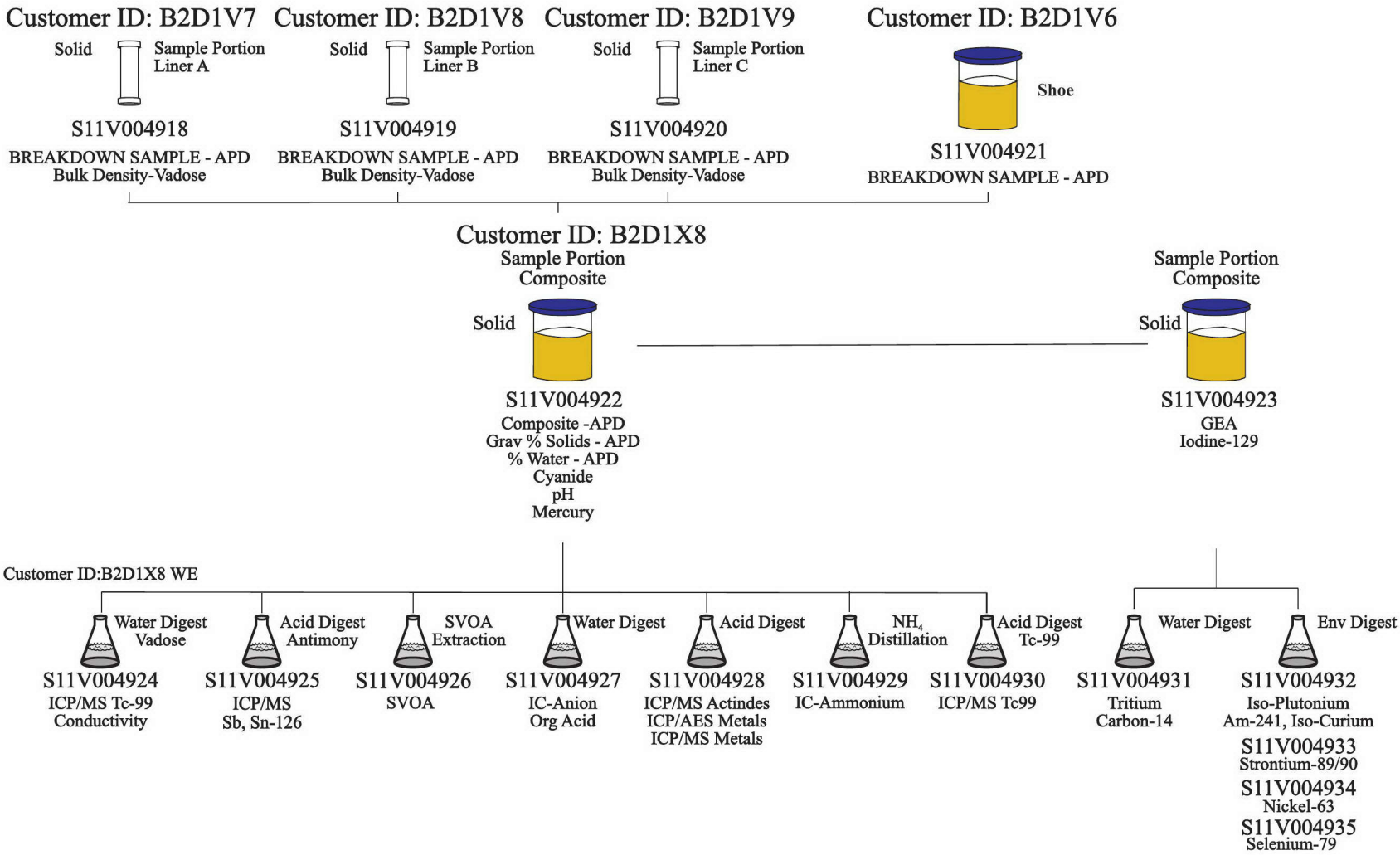
C Farm 2011
Core No. C8102
Group 20110763

Sample Depth: 96'-98'
Segment No: I007



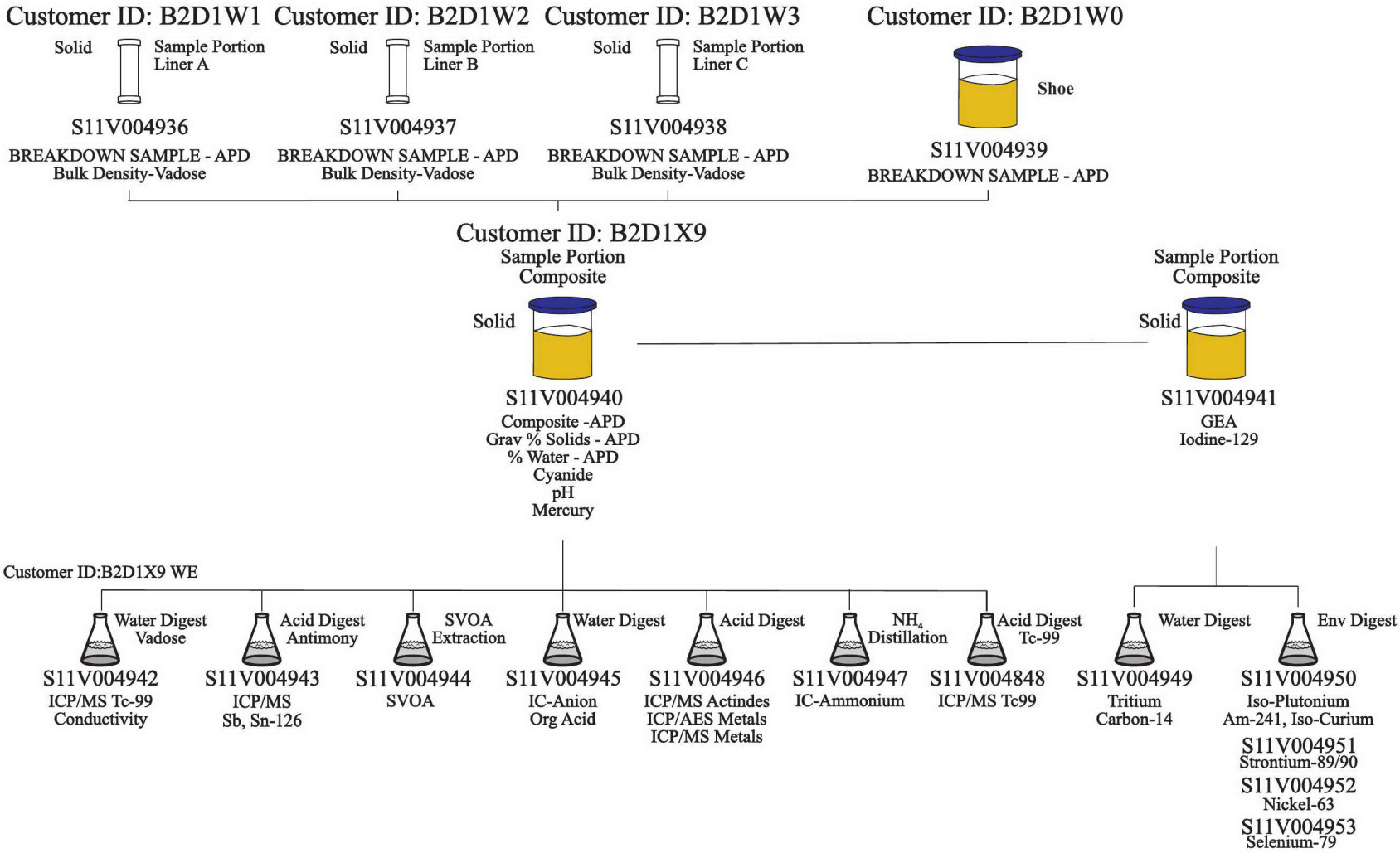
C Farm 2011
Core No. C8102
Group 20110763

Sample Depth: 155'-157'
Segment No: I008



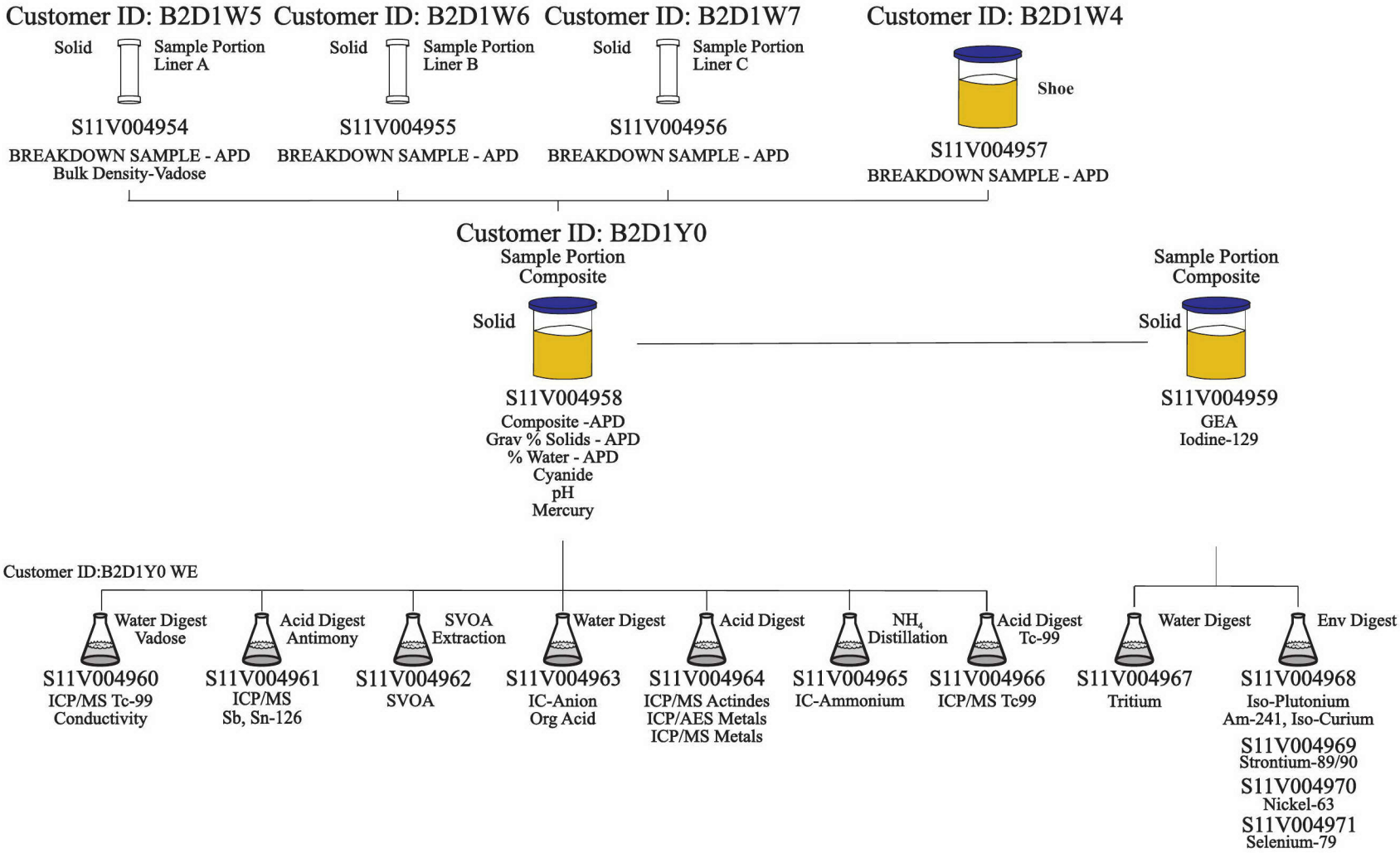
C Farm 2011
Core No. C8102
Group 20110763

Sample Depth: 188'-190'
Segment No: I009



C Farm 2011
Core No. C8102
Group 20110763

Sample Depth: 221'-223'
Segment No: I010



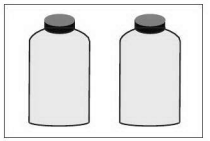
C Farm 2011
Core No.: C8104
Group 20111028(ATL)
Group 20111029(Offsite)

Segment No. Equipment Blank
Customer ID: B2B1N8

S11V005009
SVOA
PCB

S11V005010
ICP/MS
(Sn-126, Tc-99, Actinides)
ICP-Metals
Mercury

S11V005011
Iodine-129
Tritium
C-14



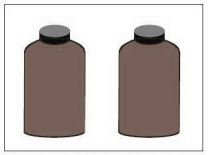
S11V005012
GEA
Iso-Plutonium
Am-241, Iso-Curium
Sr-90 Env
Nickel-63
Selenium-79

S11V005013
IC - Anions/Org Acids
pH

S11V005014
Cyanide-Water

S11V005015
Ammonium

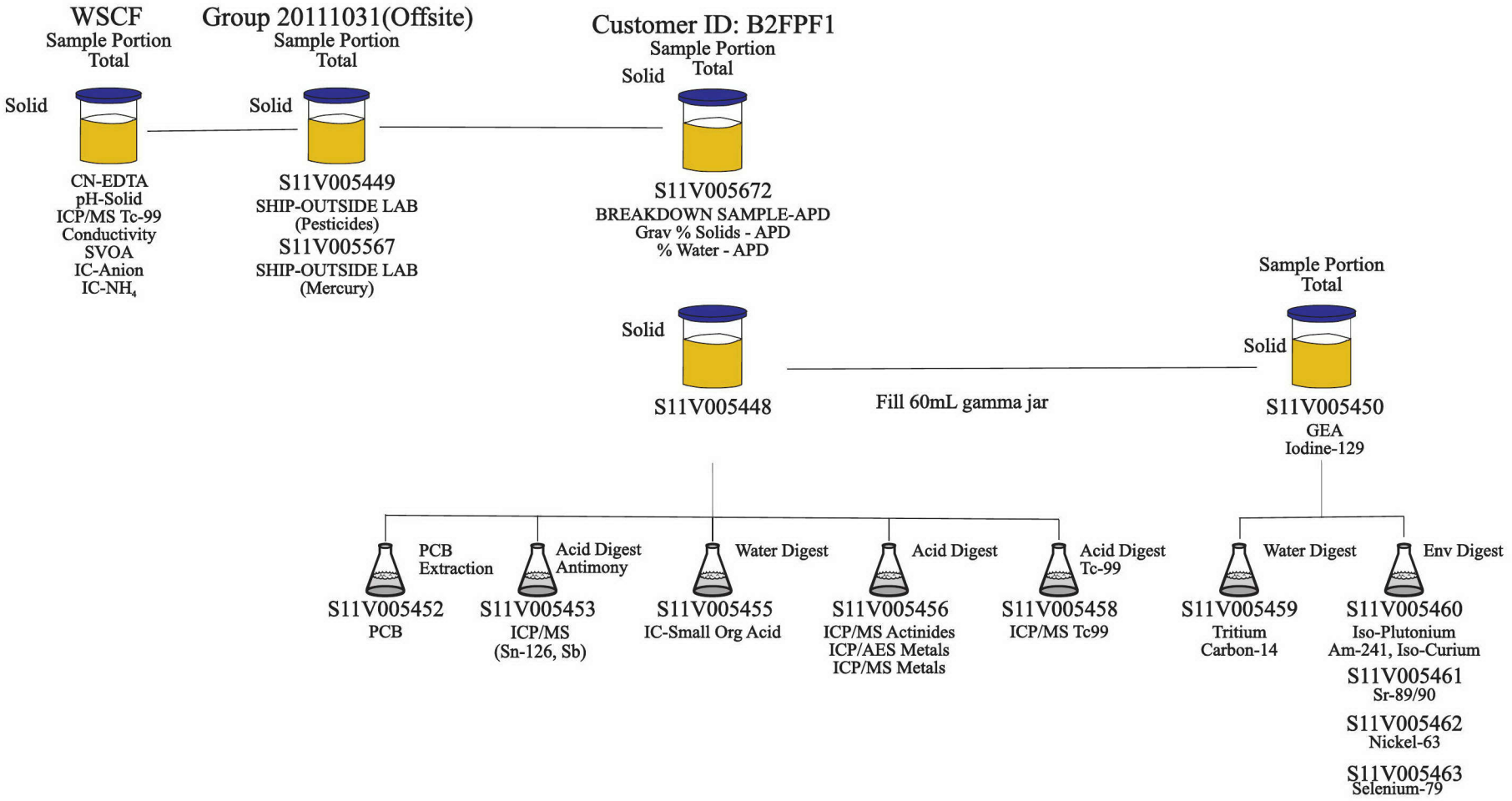
Group 20111029 (Offsite Liquid)
Customer ID: B2B1N8



S11V005016
SHIP - OUTSIDE LAB
(Pesticides)

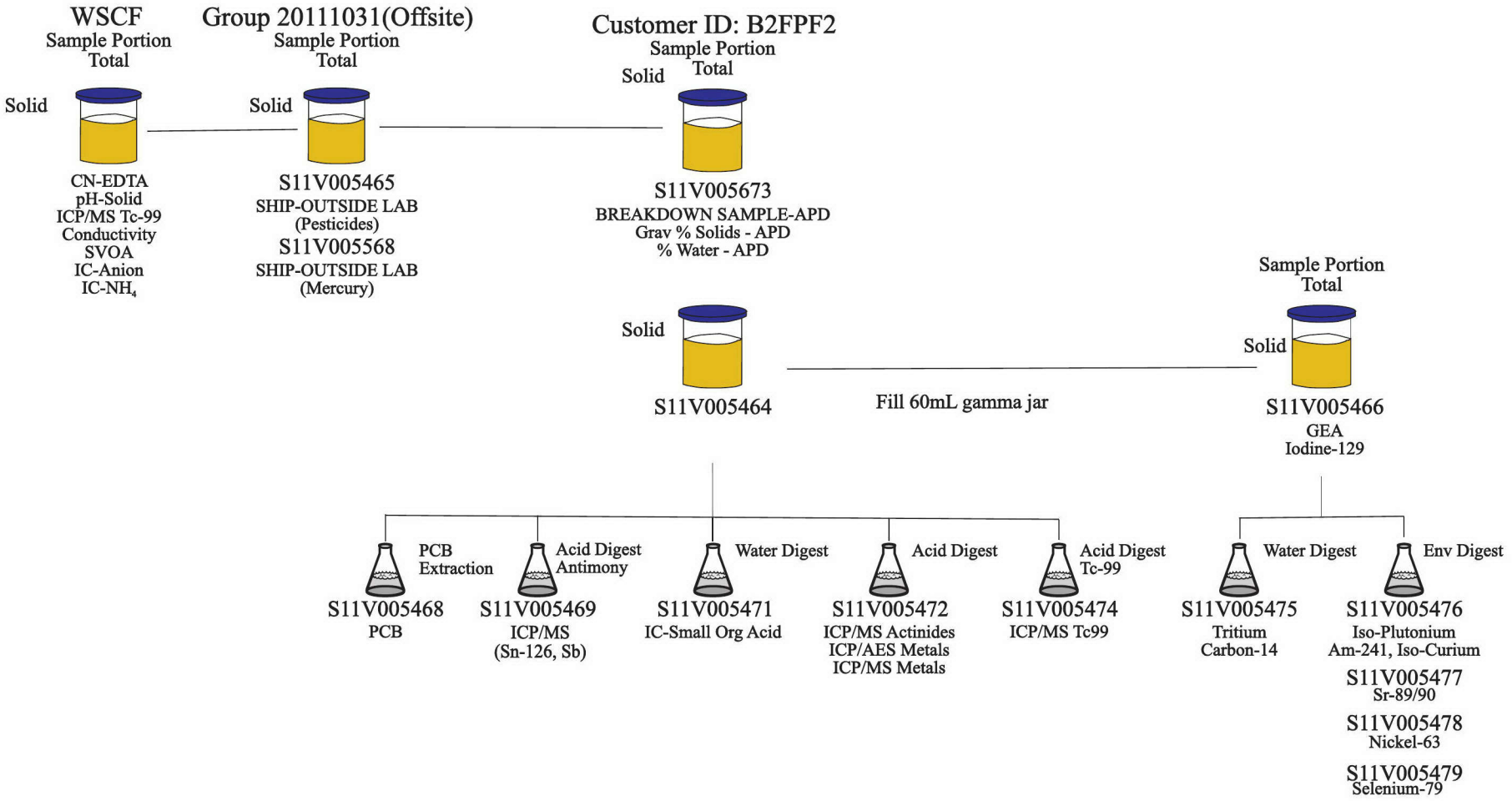
C Farm 2011
Core No.: C8104
Group 20111030 (ATL)
Group 20111031 (Offsite)

Sample Depth: Surface
Segment No: Surface



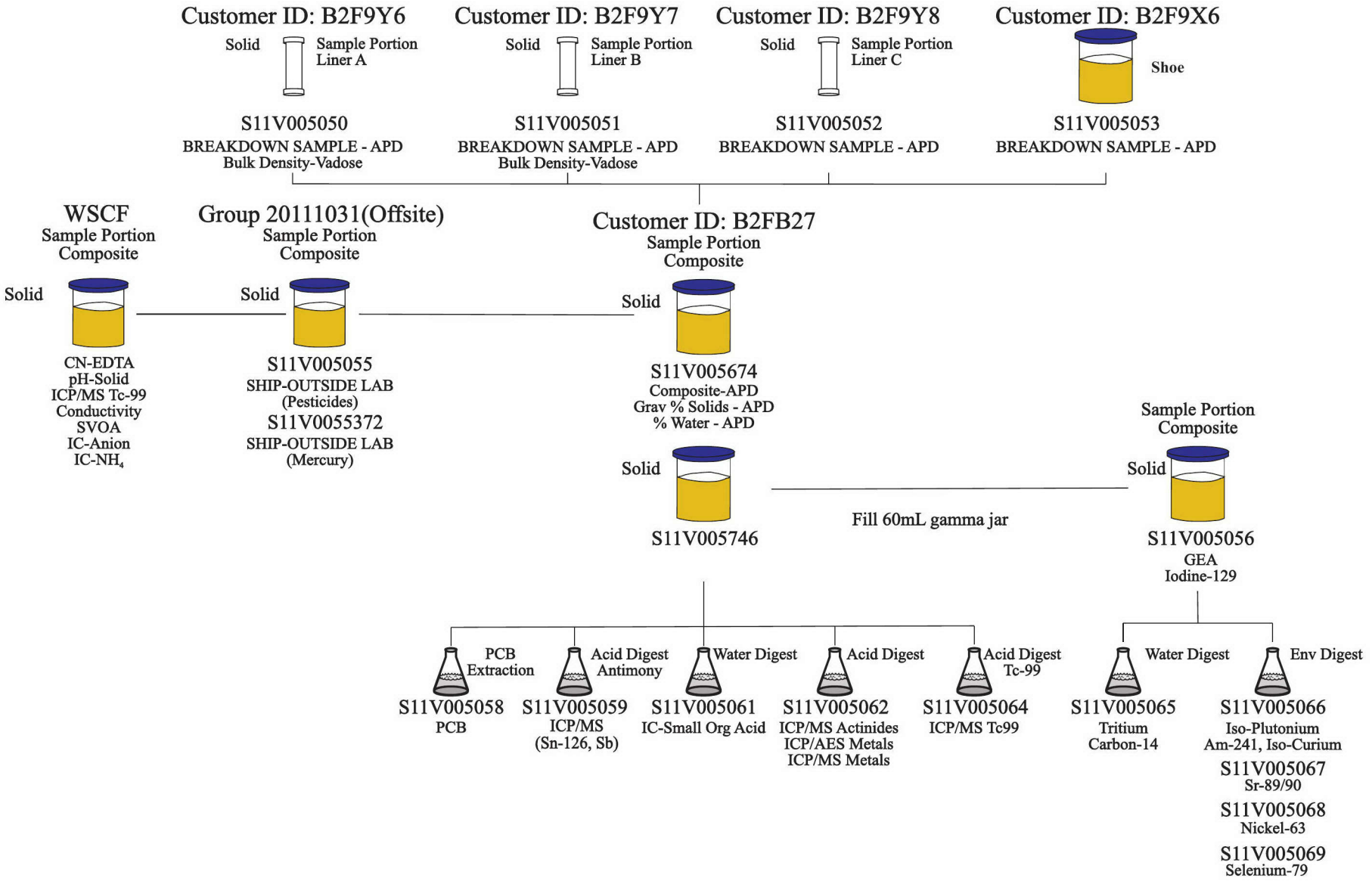
C Farm 2011
Core No.: C8104
Group 20111030 (ATL)
Group 20111031 (Offsite)

Sample Depth: Surface Dup
Segment No: Surface Dup



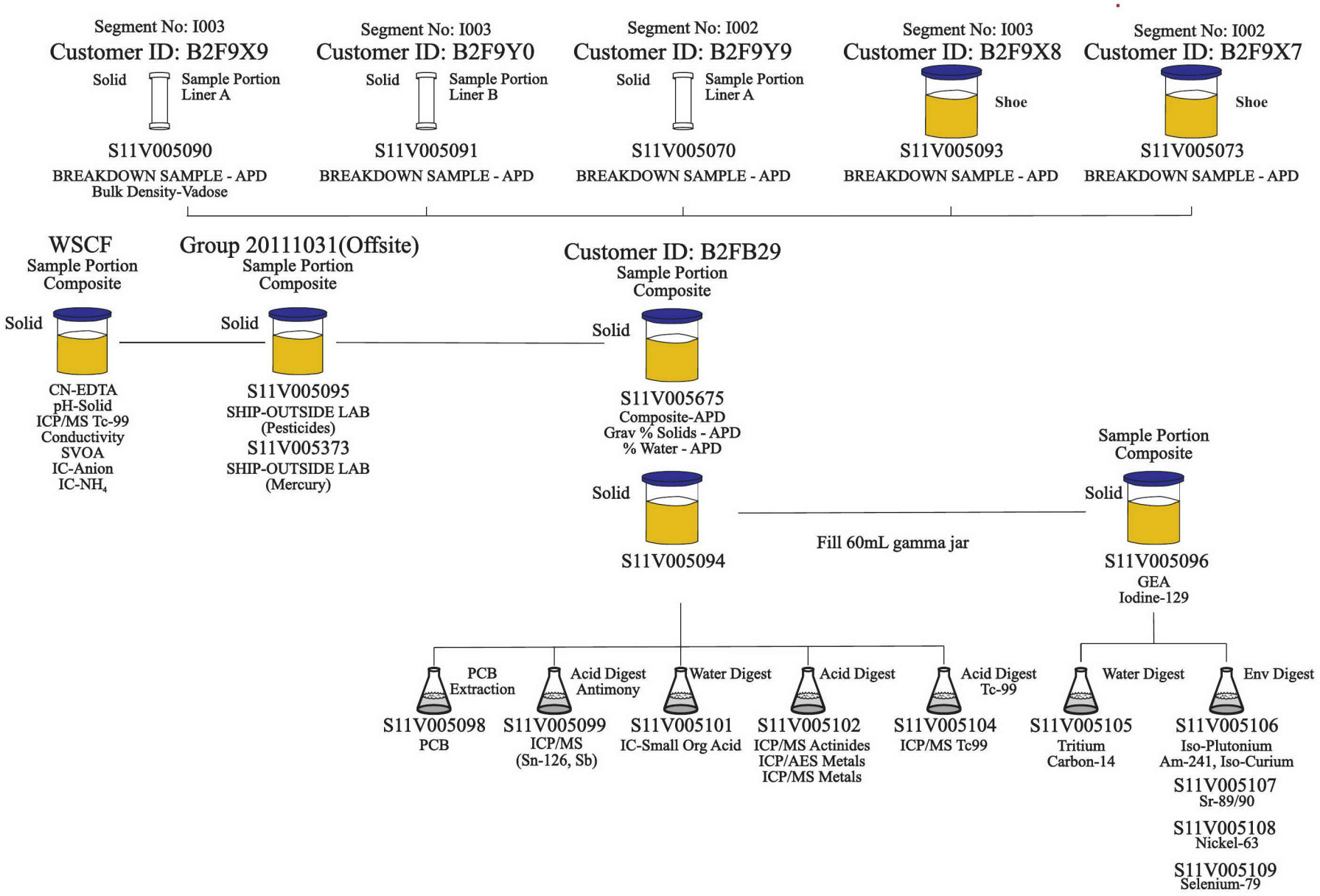
C Farm 2011
Core No.: C8104
Group 20111030 (ATL)
Group 20111031 (Offsite)

Sample Depth: 5.7'-7.7'
Segment No: I001



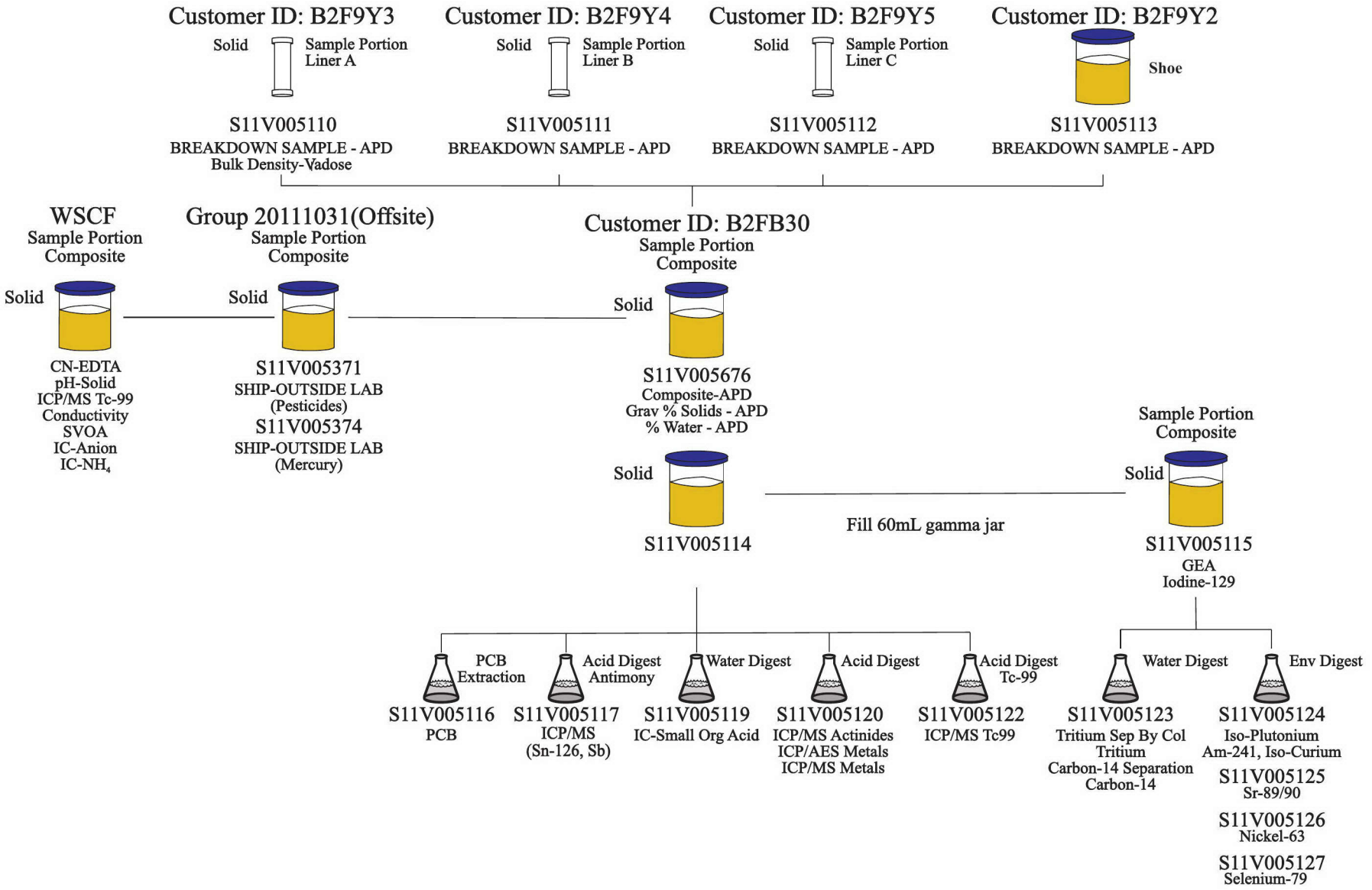
C Farm 2011
Core No.: C8104
Group 20111030 (ATL)
Group 20111031 (Offsite)

Sample Depth:11.5'-15.5'
Segment No: I002+I003



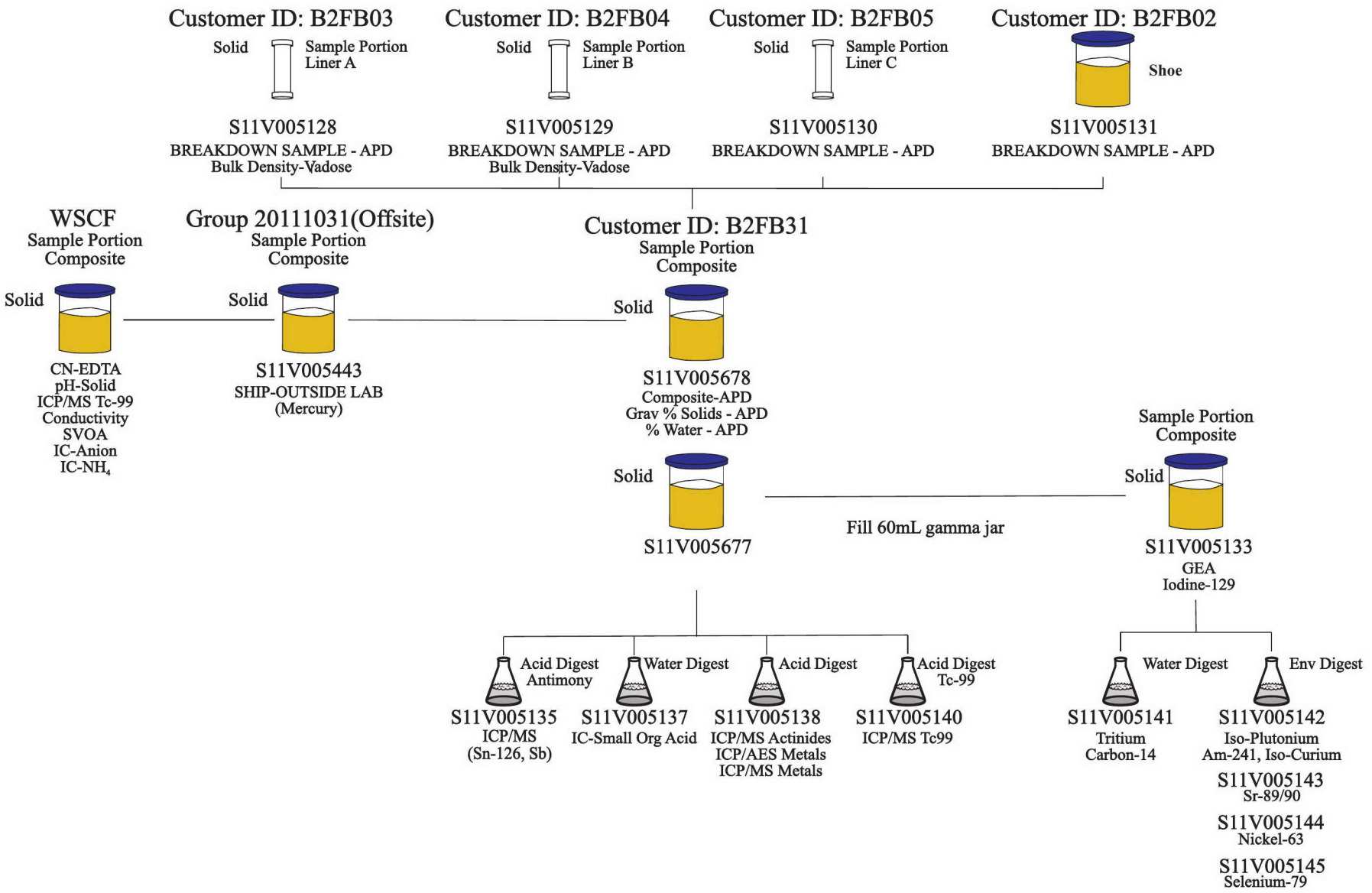
C Farm 2011
Core No.: C8104
Group 20111030 (ATL)
Group 20111031 (Offsite)

Sample Depth: 16.1'-18.1'
Segment No: I004



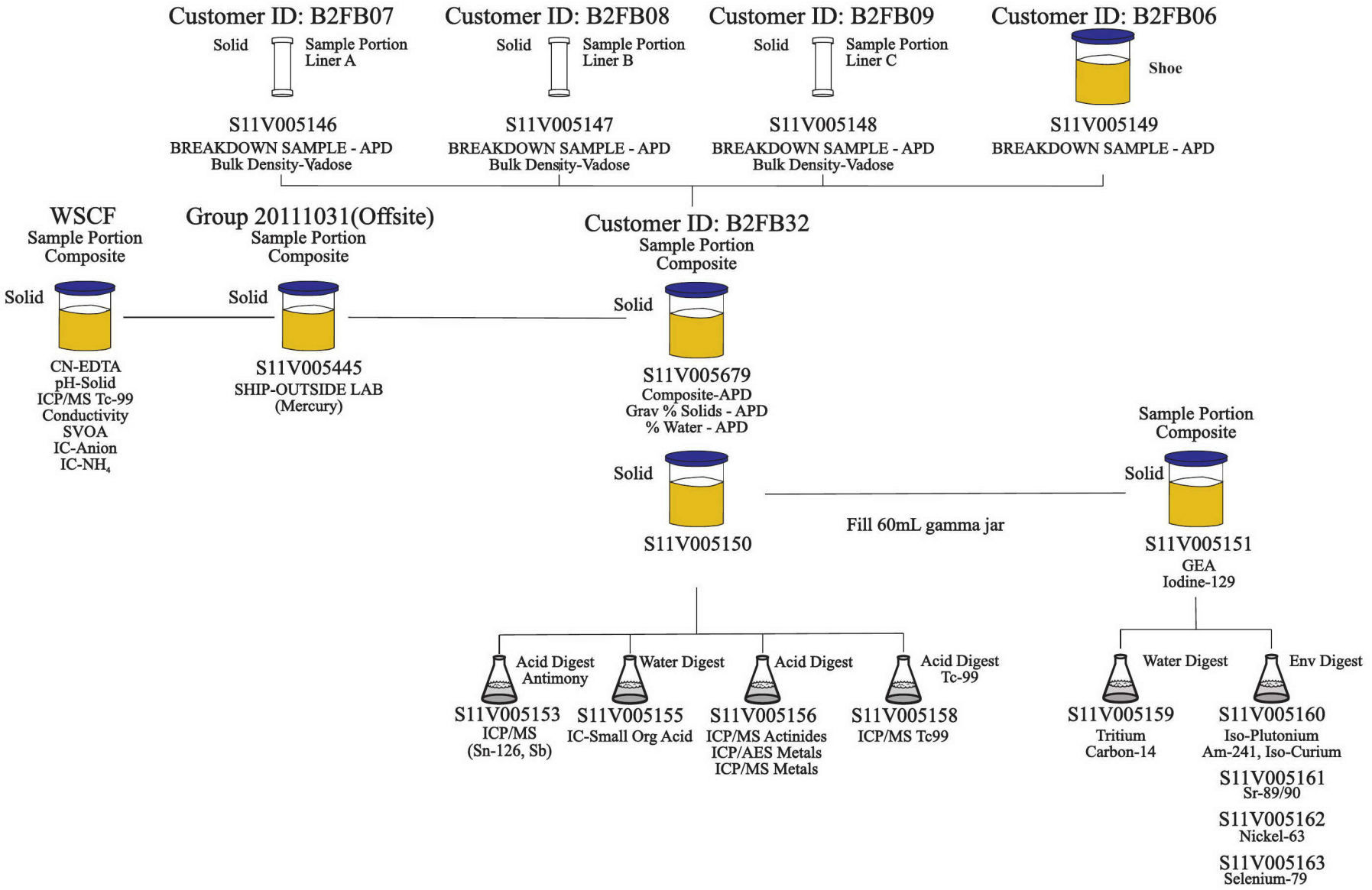
C Farm 2011
Core No.: C8104
Group 20111030 (ATL)
Group 20111031 (Offsite)

Sample Depth: 41'-43'
Segment No: I005



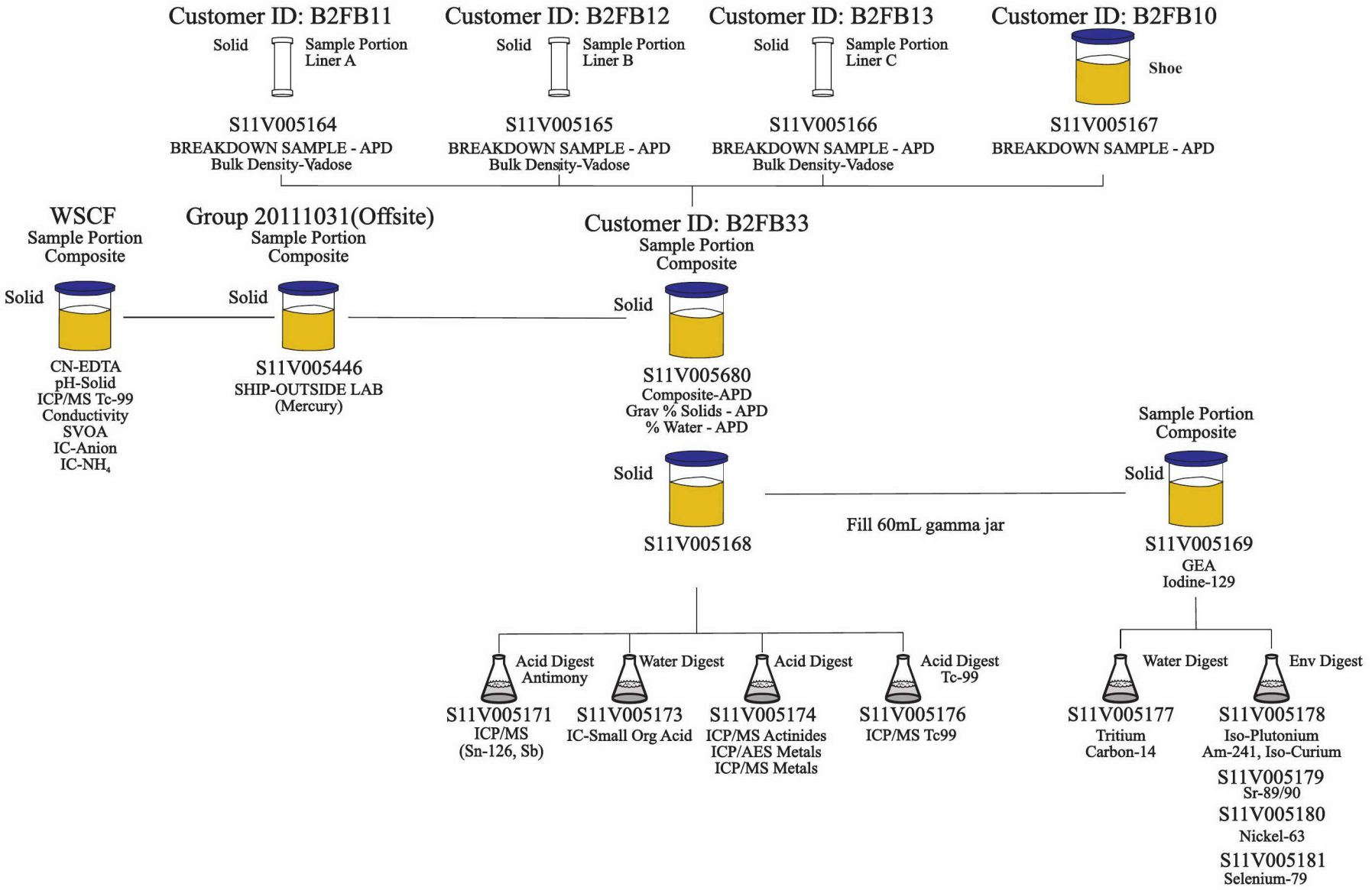
C Farm 2011
Core No.: C8104
Group 20111030 (ATL)
Group 20111031 (Offsite)

Sample Depth: 93'-95'
Segment No: I006



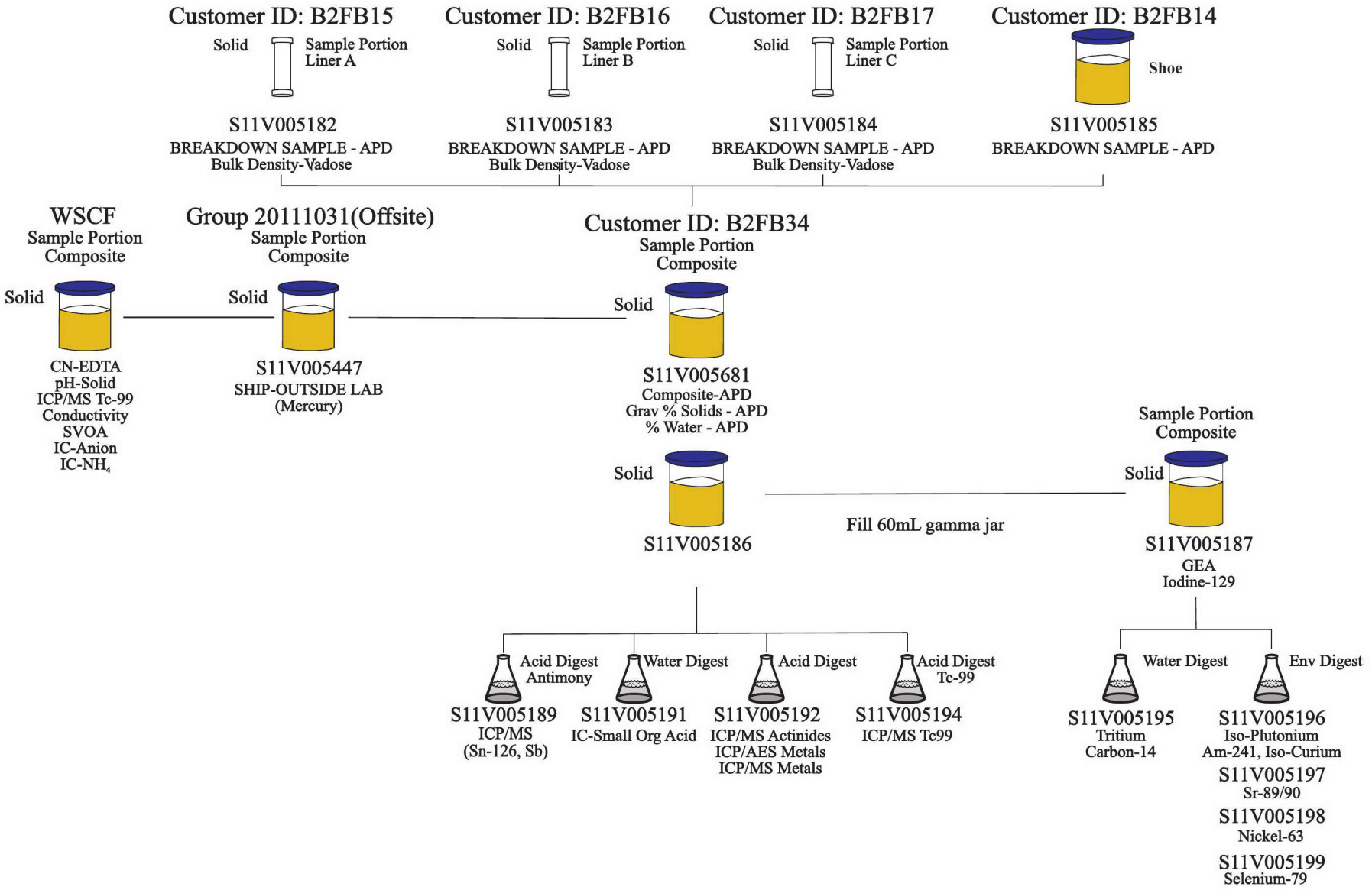
C Farm 2011
Core No.: C8104
Group 20111030 (ATL)
Group 20111031 (Offsite)

Sample Depth: 117'-119'
Segment No: I007



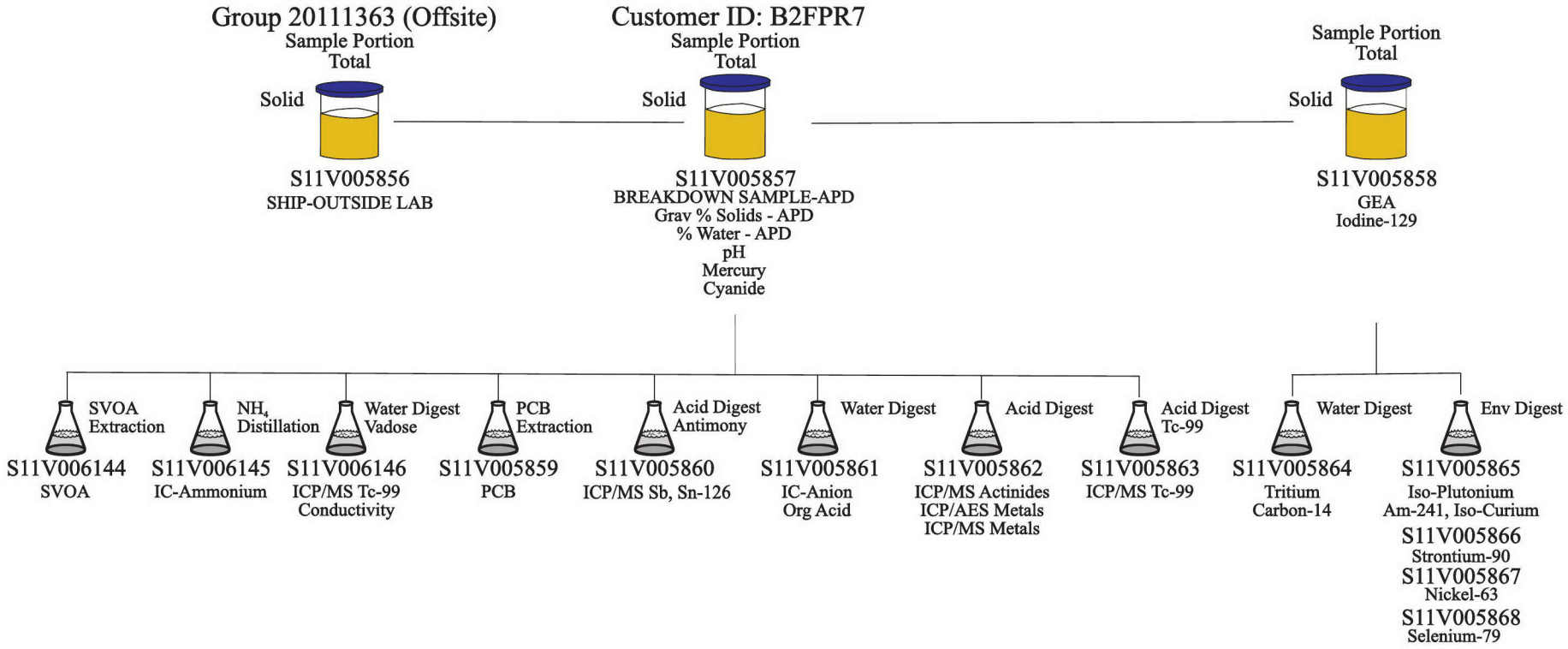
C Farm 2011
Core No.: C8104
Group 20111030 (ATL)
Group 20111031 (Offsite)

Sample Depth: 157'-159'
Segment No: I008



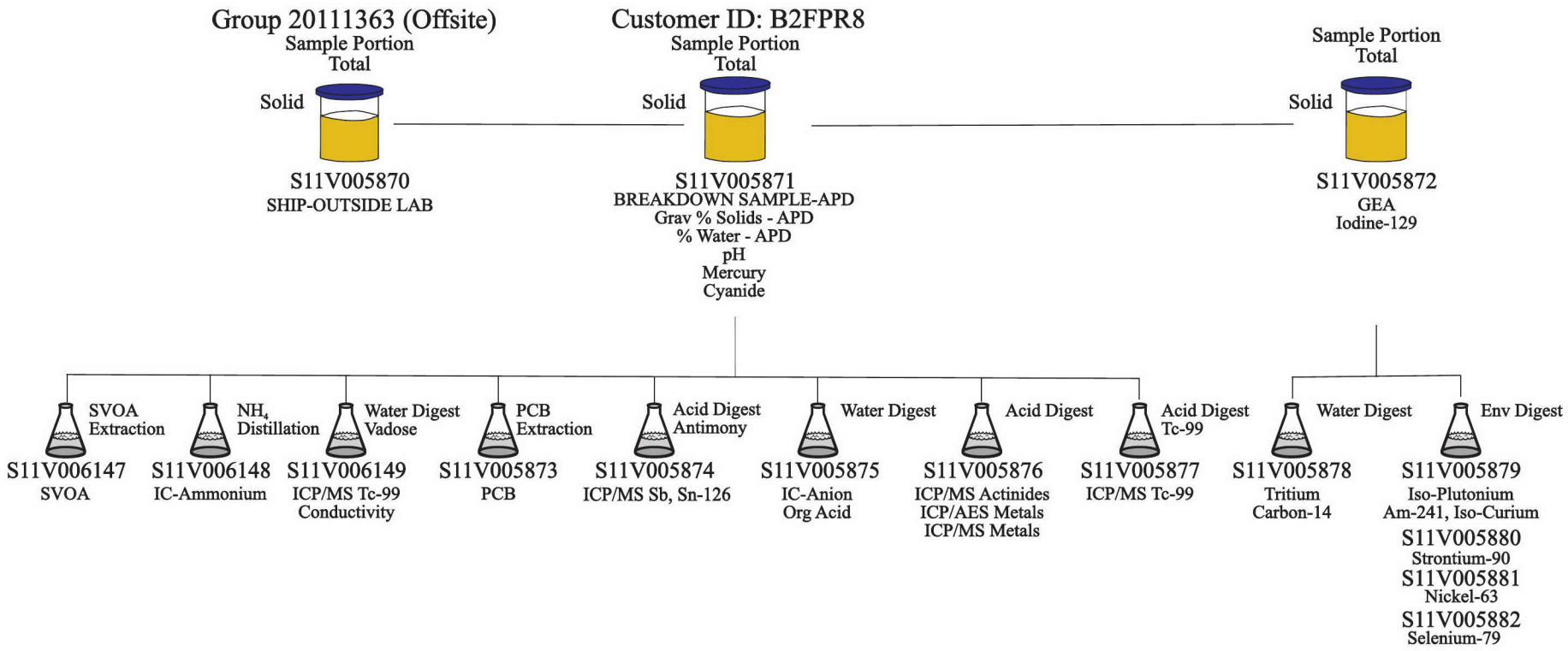
Core No.: C8106
Group 20111362 (ATL)
Group 20111363 (Offsite)

Sample Depth: Surface
Segment No: Surface



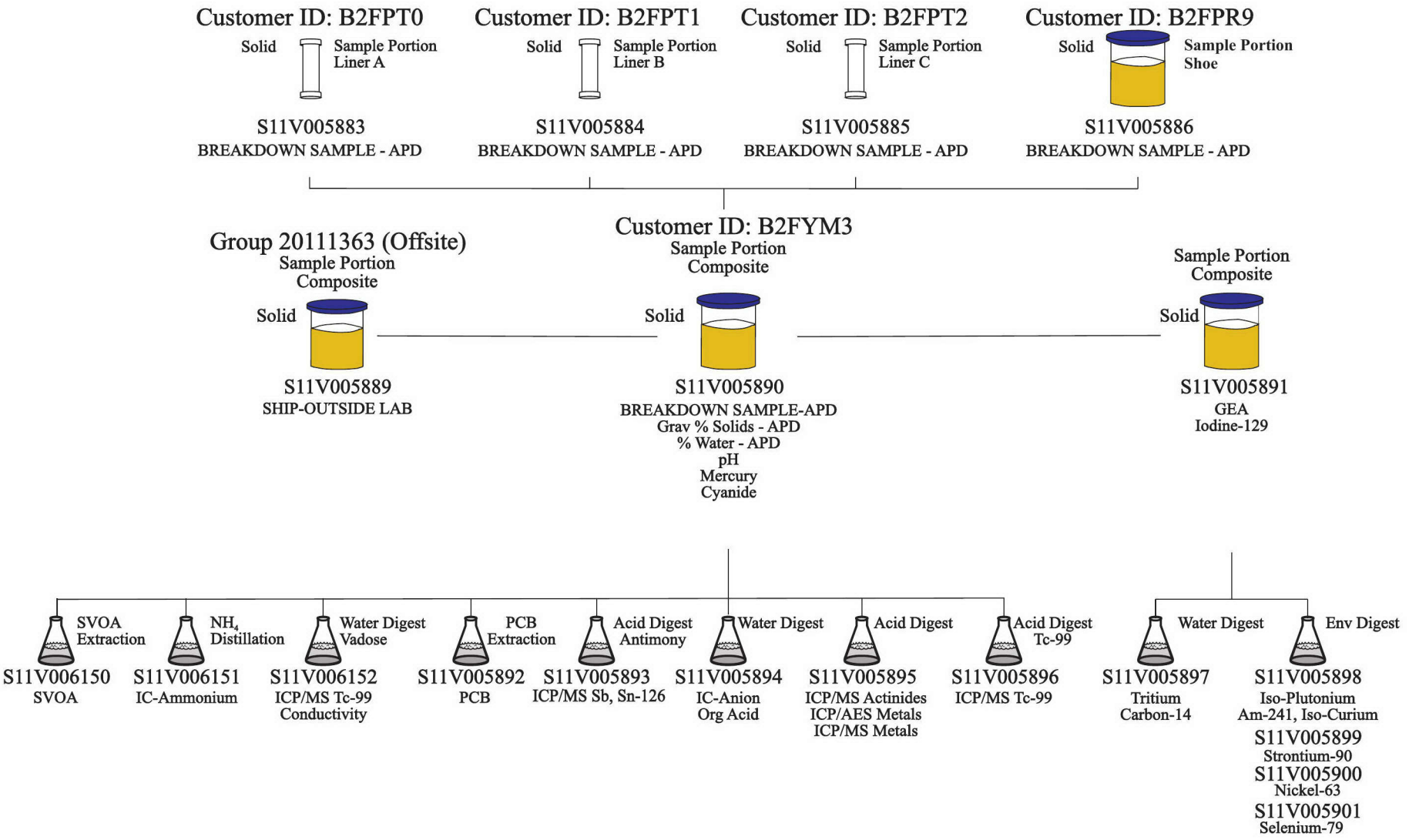
Core No.: C8106
Group 20111362 (ATL)
Group 20111363 (Offsite)

Sample Depth: Surface Dup
Segment No: Surface Dup



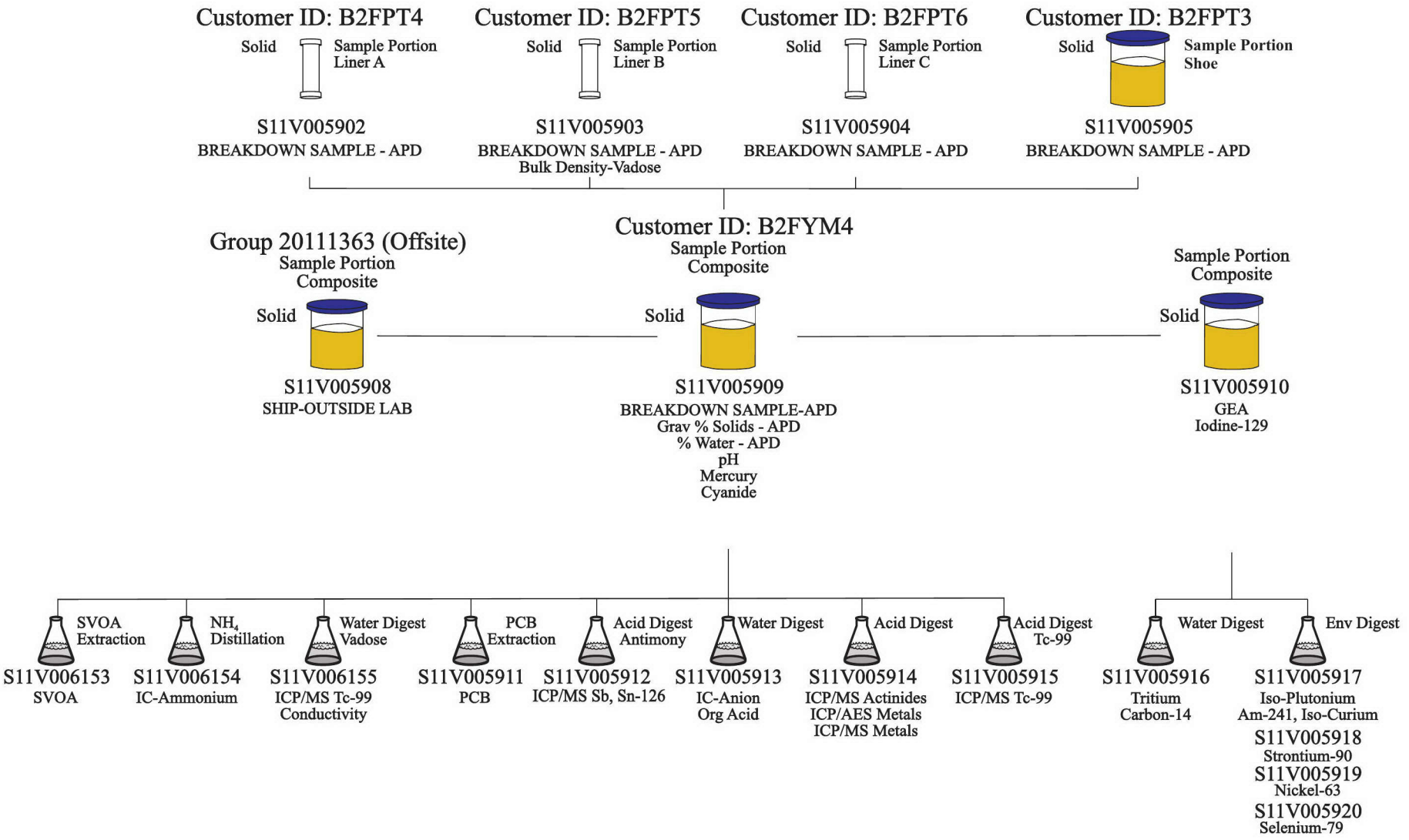
Core No.: C8106
Group 20111362 (ATL)
Group 20111363 (Offsite)

Sample Depth: 11'-13'
Segment No: I001



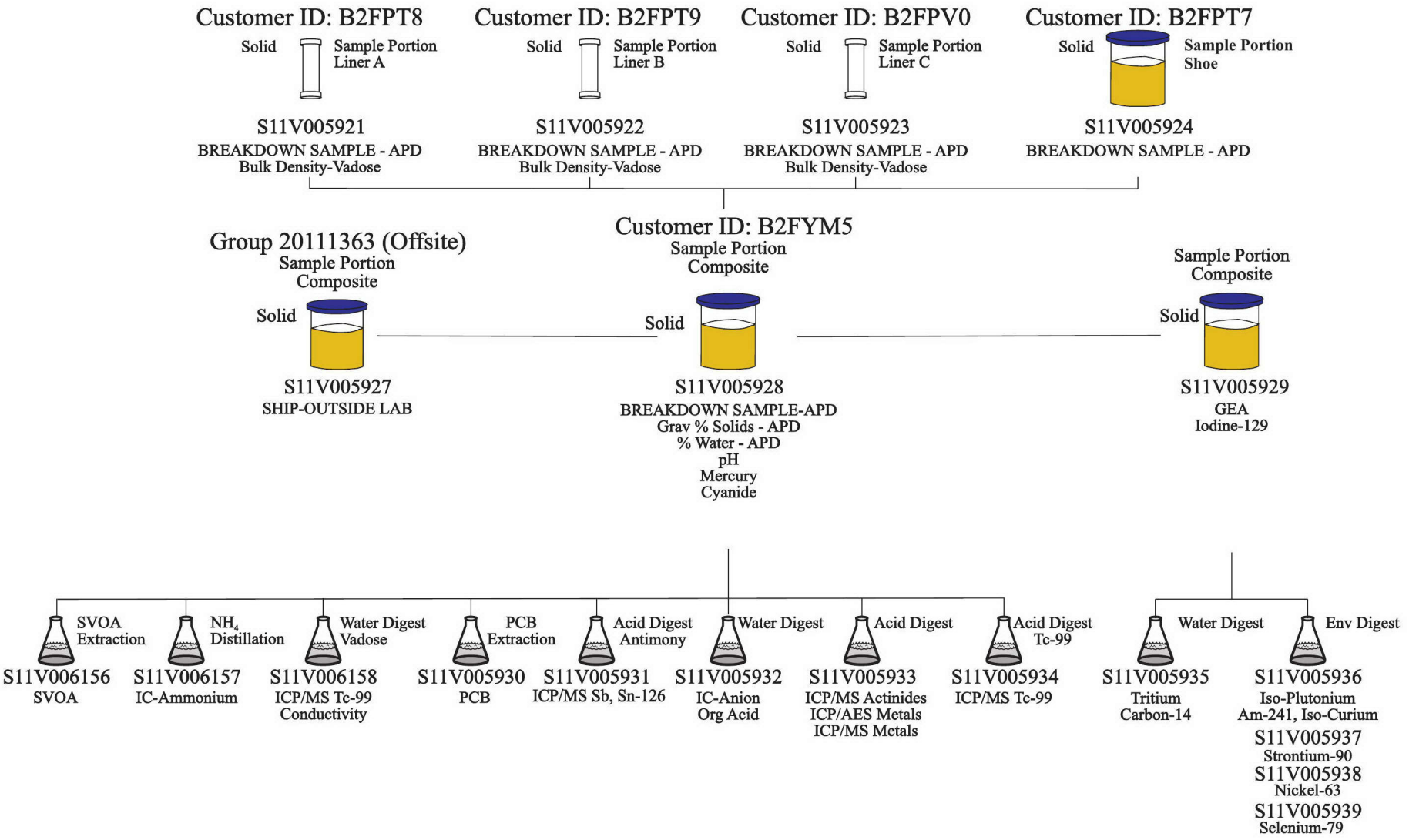
Core No.: C8106
Group 20111362 (ATL)
Group 20111363 (Offsite)

Sample Depth: 19'-21'
Segment No: I002



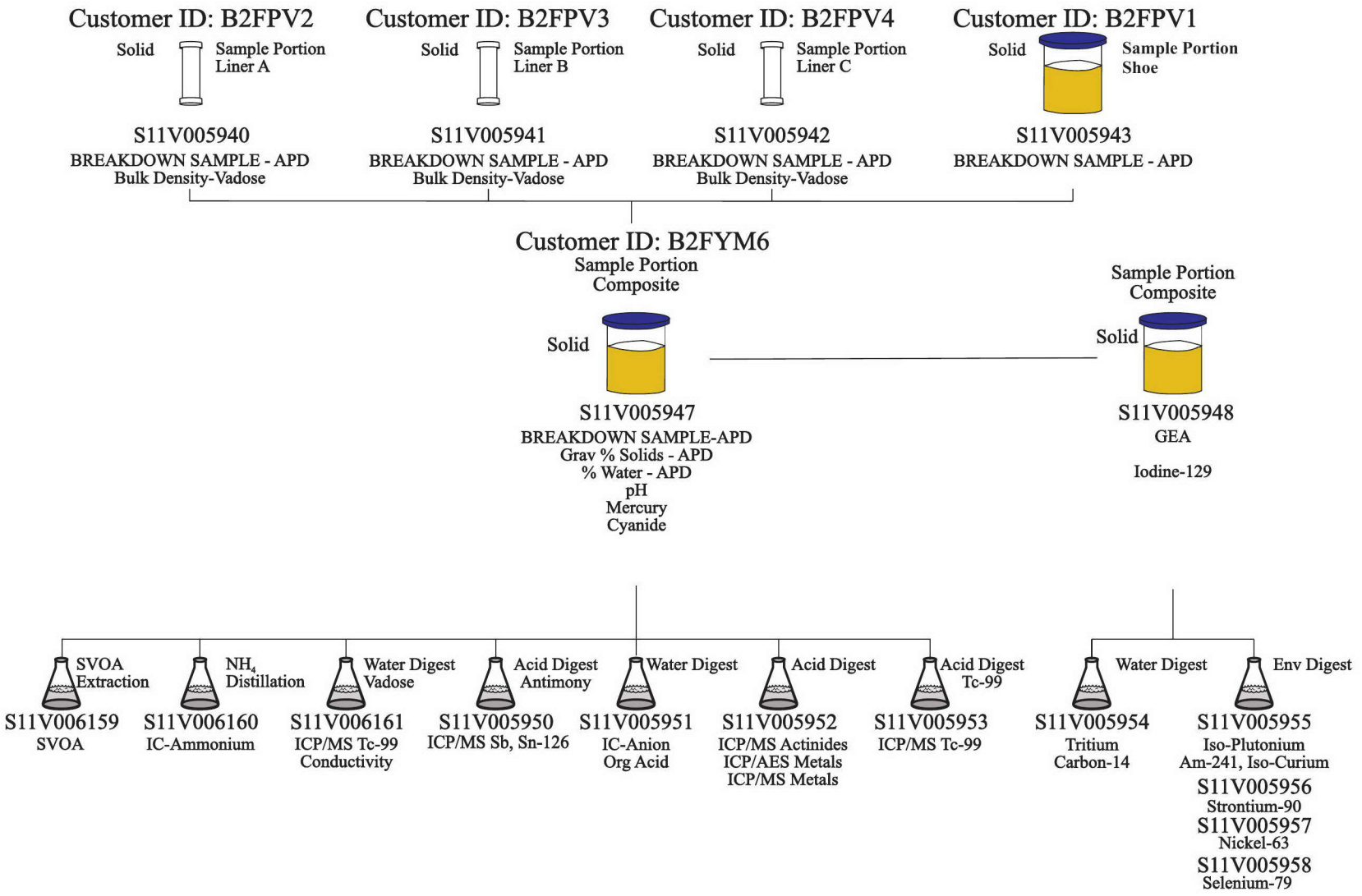
Core No.: C8106
Group 20111362 (ATL)
Group 20111363 (Offsite)

Sample Depth: 27'-29'
Segment No: I003



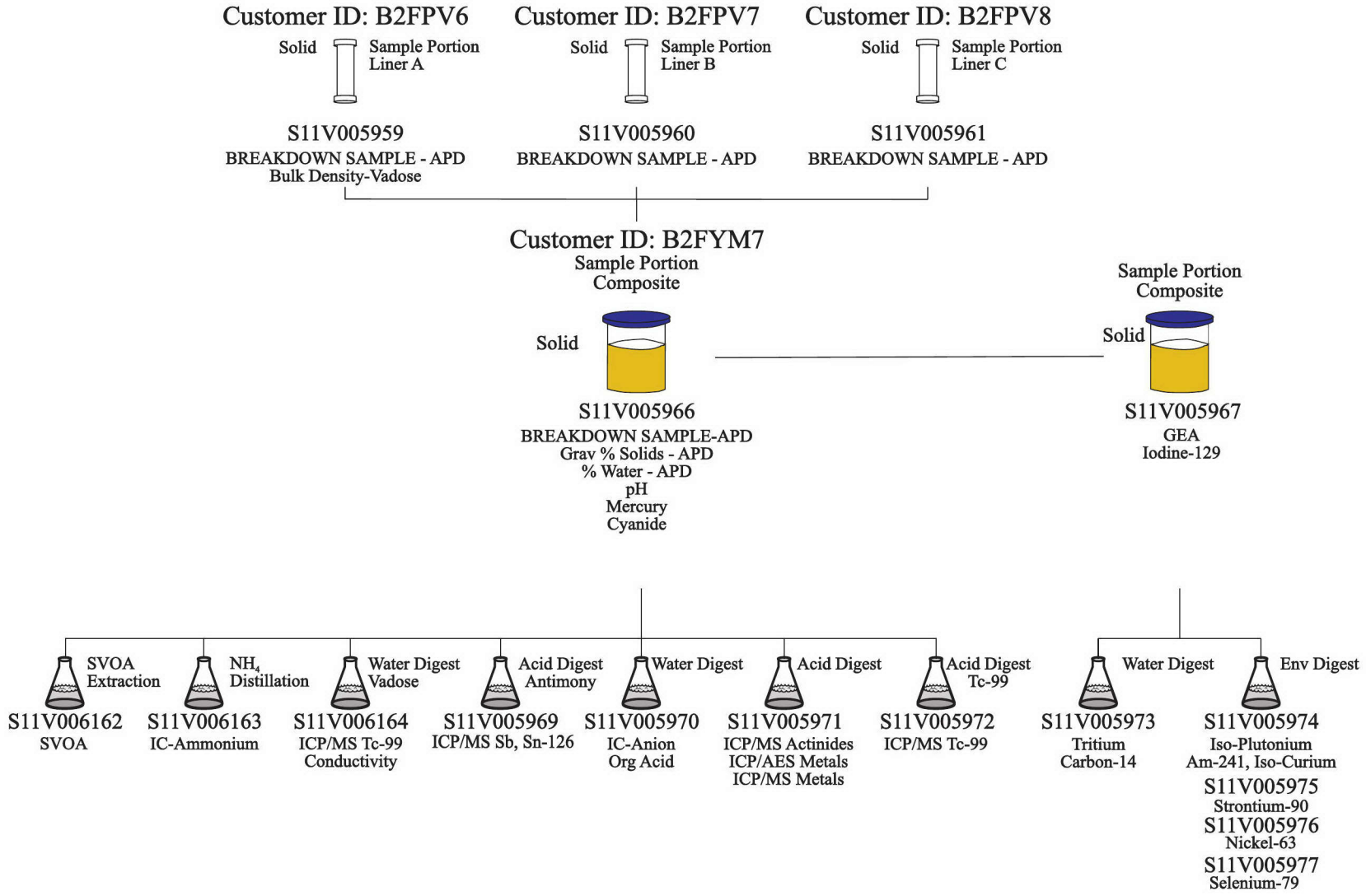
Core No.: C8106
Group 20111362 (ATL)

Sample Depth: 64'-66'
Segment No: I004



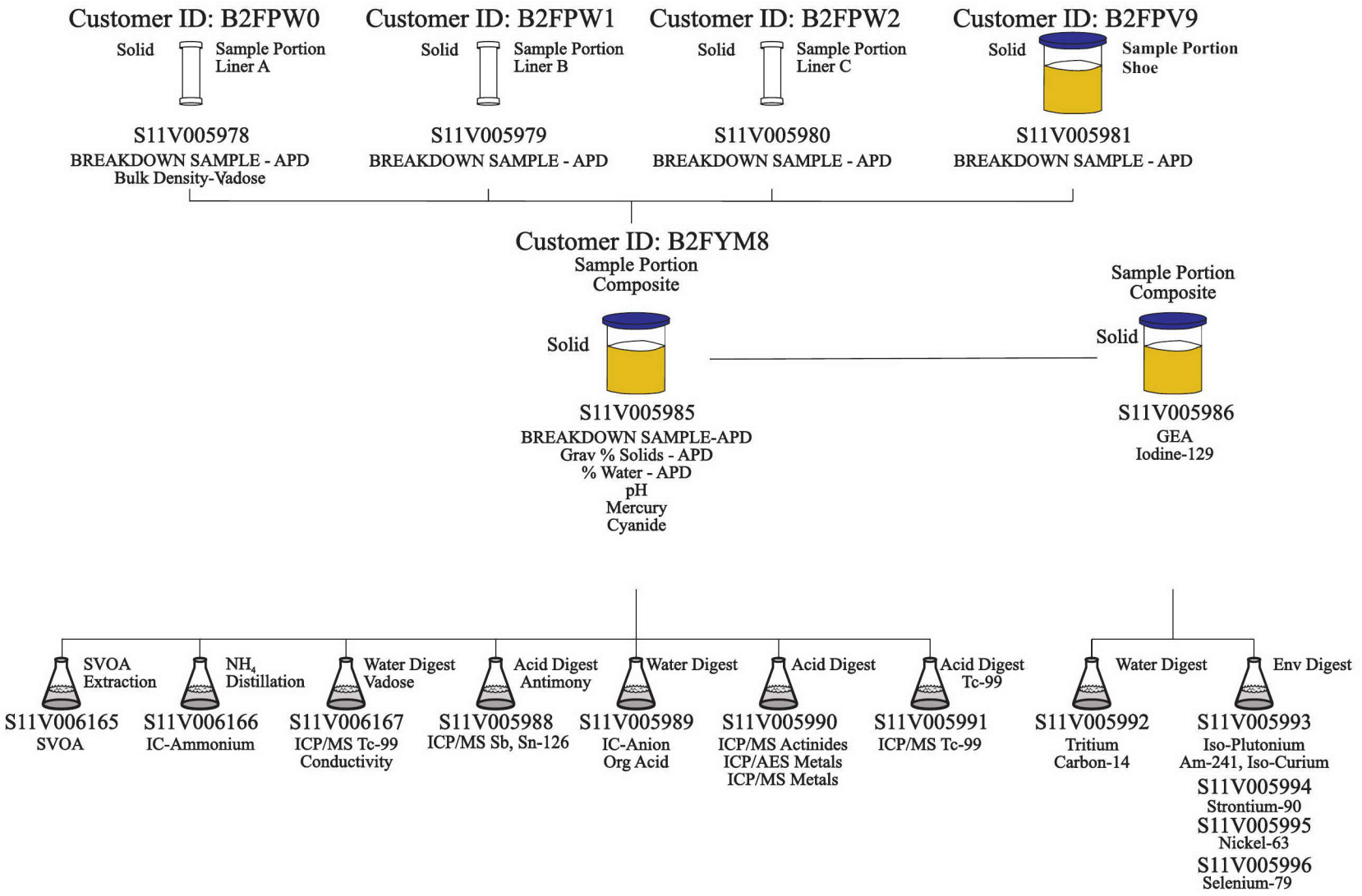
Core No.: C8106
Group 20111362 (ATL)

Sample Depth: 90'-92'
Segment No: I005



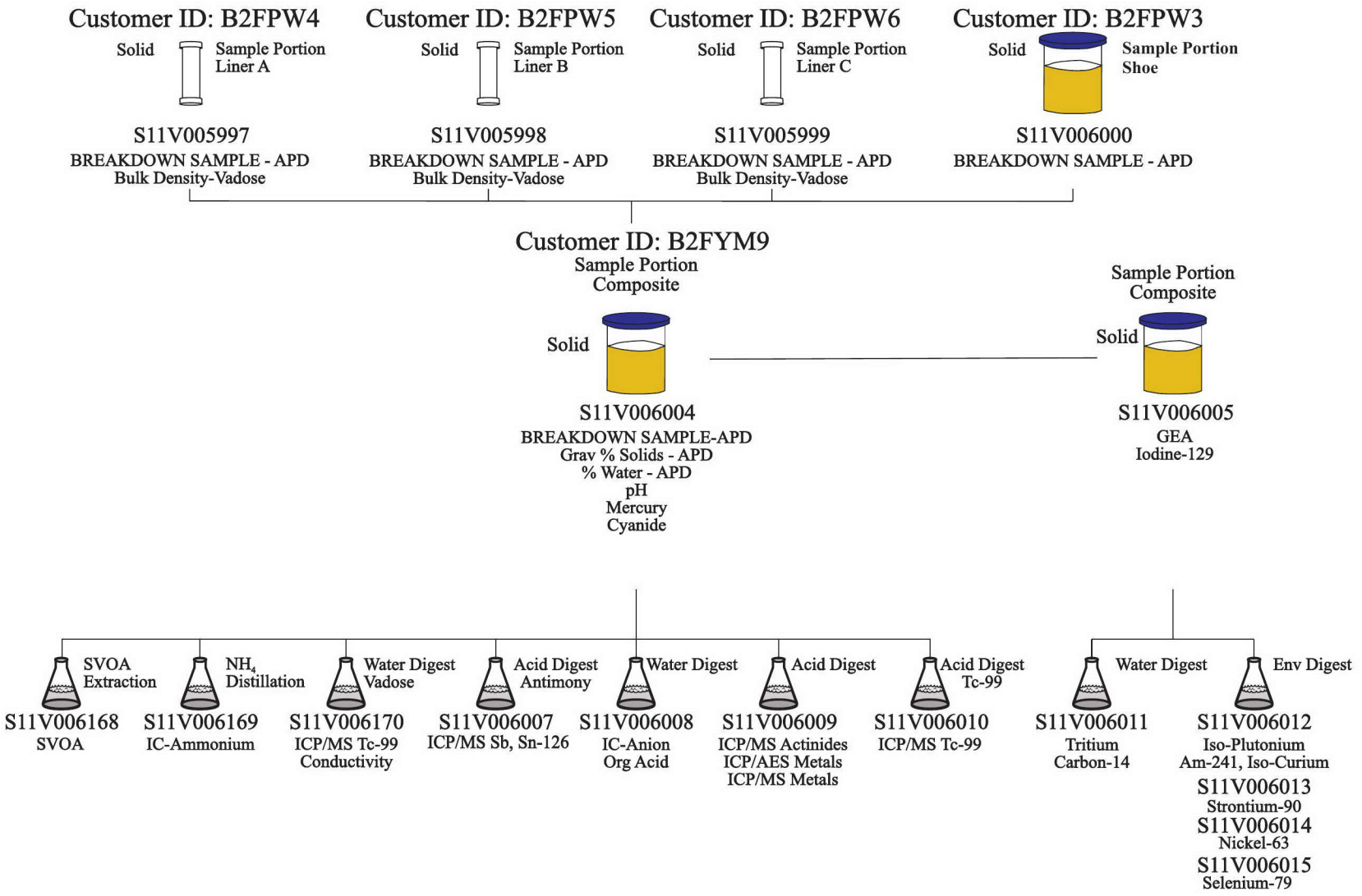
Core No.: C8106
Group 20111362 (ATL)

Sample Depth: 132'-134'
Segment No: I006



Core No.: C8106
Group 20111362 (ATL)

Sample Depth: 161.5'-163.5'
Segment No: I007



Attachment 3

HOLDING TIME REPORT

Holding Time Report: Am-241, Cm-242, 243/244

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004734	B2B1L8	AEA Am-241, Iso-Cm	Acid Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	11/30/2011 09:45	12/05/2011 10:29	Y
S11V004751	B2B1L9	AEA Am-241, Iso-Cm	Acid Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	09/29/2011 09:13	10/07/2011 14:39	N
S11V004718	B2B1N7	AEA Am-241, Iso-Cm	Separation	06/15/2011 10:00	06/15/2011 11:00	N/A	11/28/2011 08:44	N
S11V005012	B2B1N8	AEA Am-241, Iso-Cm	Separation	07/18/2011 09:00	07/18/2011 10:00	N/A	07/21/2011 14:24	N
S11V004791	B2D1X2	AEA Am-241, Iso-Cm	Acid Digest/Separation	05/31/2011 13:20	06/02/2011 08:53	09/29/2011 09:13	10/07/2011 14:39	N
S11V004829	B2D1X4	AEA Am-241, Iso-Cm	Acid Digest/Separation	06/01/2011 09:51	06/02/2011 10:49	09/29/2011 09:13	10/07/2011 14:39	N
S11V004847	B2D1X5	AEA Am-241, Iso-Cm	Acid Digest/Separation	06/03/2011 09:30	06/03/2011 10:40	09/29/2011 09:13	10/07/2011 14:39	N
S11V004865	B2D1X6	AEA Am-241, Iso-Cm	Acid Digest/Separation	06/09/2011 00:00	06/09/2011 13:16	09/29/2011 09:13	10/07/2011 14:39	N
S11V004914	B2D1X7	AEA Am-241, Iso-Cm	Acid Digest/Separation	06/14/2011 00:00	06/14/2011 07:53	09/29/2011 09:13	10/07/2011 14:39	N
S11V004932	B2D1X8	AEA Am-241, Iso-Cm	Acid Digest/Separation	06/14/2011 00:00	06/14/2011 10:50	09/29/2011 09:13	10/07/2011 14:39	N
S11V004950	B2D1X9	AEA Am-241, Iso-Cm	Acid Digest/Separation	06/20/2011 00:00	06/20/2011 11:18	11/30/2011 09:45	12/05/2011 10:29	N
S11V004968	B2D1Y0	AEA Am-241, Iso-Cm	Acid Digest/Separation	06/20/2011 00:00	06/20/2011 12:15	09/29/2011 09:13	10/07/2011 14:39	N
S11V005066	B2FB27	AEA Am-241, Iso-Cm	Acid Digest/Separation	06/30/2011 10:42	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 18:43	N
S11V005106	B2FB29	AEA Am-241, Iso-Cm	Acid Digest/Separation	06/30/2011 09:45	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 18:43	N
S11V005124	B2FB30	AEA Am-241, Iso-Cm	Acid Digest/Separation	06/30/2011 10:30	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 18:43	N
S11V005142	B2FB31	AEA Am-241, Iso-Cm	Acid Digest/Separation	07/12/2011 09:40	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 18:43	N
S11V005160	B2FB32	AEA Am-241, Iso-Cm	Acid Digest/Separation	07/14/2011 00:00	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 18:43	N
S11V005178	B2FB33	AEA Am-241, Iso-Cm	Acid Digest/Separation	07/15/2011 10:42	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 18:43	N
S11V005196	B2FB34	AEA Am-241, Iso-Cm	Acid Digest/Separation	07/19/2011 00:00	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 18:43	N
S11V005460	B2FPF1	AEA Am-241, Iso-Cm	Acid Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/30/2011 09:45	12/05/2011 10:29	N
S11V005476	B2FPF2	AEA Am-241, Iso-Cm	Acid Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/30/2011 09:45	12/05/2011 10:29	N
S11V005865	B2FPR7	AEA Am-241, Iso-Cm	Acid Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	01/25/12 15:25	01/31/12 15:17	N
S11V005879	B2FPR8	AEA Am-241, Iso-Cm	Acid Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	01/25/12 15:24	01/31/12 15:17	N
S11V005898	B2FYM3	AEA Am-241, Iso-Cm	Acid Digest/Separation	10/26/2011 09:00	10/27/2011 11:03	01/25/12 15:24	01/31/12 15:17	N
S11V005917	B2FYM4	AEA Am-241, Iso-Cm	Acid Digest/Separation	10/26/2011 10:15	10/27/2011 11:10	01/25/12 15:24	01/31/12 15:17	N
S11V005936	B2FYM5	AEA Am-241, Iso-Cm	Acid Digest/Separation	10/26/2011 12:00	10/27/2011 11:30	01/25/12 15:24	01/31/12 15:17	N
S11V005955	B2FYM6	AEA Am-241, Iso-Cm	Acid Digest/Separation	11/03/2011 09:00	11/09/2011 12:55	01/25/12 15:23	01/31/12 15:17	N
S11V005974	B2FYM7	AEA Am-241, Iso-Cm	Acid Digest/Separation	11/04/2011 09:00	11/09/2011 01:00	01/25/12 15:23	01/31/12 15:17	N
S11V005993	B2FYM8	AEA Am-241, Iso-Cm	Acid Digest/Separation	11/07/2011 10:47	11/09/2011 01:00	02/06/12 14:30	02/09/12 14:34	N
S11V006012	B2FYM9	AEA Am-241, Iso-Cm	Acid Digest/Separation	11/08/2011 10:20	11/09/2011 01:00	01/25/12 15:23	01/31/12 15:17	N

Holding Time Report: Carbon-14

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004733	B2B1L8	Carbon-14 by LSC	Water Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	10/06/2011 00:00	10/18/2011 16:00	N
S11V004750	B2B1L9	Carbon-14 by LSC	Water Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	10/06/2011 00:00	10/18/2011 16:00	N
S11V004717	B2B1N7	Carbon-14 by LSC	Separation	06/15/2011 10:00	06/15/2011 11:00	N/A	06/22/2011 14:00	N
S11V005011	B2B1N8	Carbon-14 by LSC	Separation	07/18/2011 09:00	07/18/2011 10:00	N/A	09/09/2011 16:35	N
S11V004790	B2D1X2	Carbon-14 by LSC	Water Digest/Separation	05/31/2011 13:20	06/02/2011 08:53	10/06/2011 00:00	10/18/2011 16:00	N
S11V004828	B2D1X4	Carbon-14 by LSC	Water Digest/Separation	06/01/2011 09:51	06/02/2011 10:49	10/06/2011 00:00	10/18/2011 16:00	N
S11V004846	B2D1X5	Carbon-14 by LSC	Water Digest/Separation	06/03/2011 09:30	06/03/2011 10:40	10/06/2011 00:00	10/18/2011 16:00	N
S11V004864	B2D1X6	Carbon-14 by LSC	Water Digest/Separation	06/09/2011 00:00	06/15/2011 09:38	10/06/2011 00:00	10/18/2011 16:00	N
S11V004913	B2D1X7	Carbon-14 by LSC	Water Digest/Separation	06/14/2011 00:00	06/14/2011 07:53	10/06/2011 00:00	10/18/2011 16:00	N
S11V004931	B2D1X8	Carbon-14 by LSC	Water Digest/Separation	06/14/2011 00:00	06/14/2011 10:50	10/06/2011 00:00	10/18/2011 16:00	N
S11V004949	B2D1X9	Carbon-14 by LSC	Water Digest/Separation	06/20/2011 00:00	06/20/2011 11:18	10/06/2011 00:00	10/18/2011 16:00	N
S11V004967	B2D1Y0	Carbon-14 by LSC	Water Digest/Separation	06/20/2011 00:00	06/20/2011 12:15	10/06/2011 00:00	10/18/2011 16:00	N
S11V005065	B2FB27	Carbon-14 by LSC	Water Digest/Separation	06/30/2011 10:42	10/13/2011 10:45	11/18/2011 10:03	12/06/2011 15:20	N
S11V005105	B2FB29	Carbon-14 by LSC	Water Digest/Separation	06/30/2011 09:45	10/13/2011 10:45	11/18/2011 10:03	12/06/2011 15:20	N
S11V005123	B2FB30	Carbon-14 by LSC	Water Digest/Separation	06/30/2011 10:30	10/13/2011 10:45	11/18/2011 10:03	12/06/2011 15:20	N
S11V005141	B2FB31	Carbon-14 by LSC	Water Digest/Separation	07/12/2011 09:40	10/13/2011 10:45	11/18/2011 10:03	12/06/2011 15:20	N
S11V005159	B2FB32	Carbon-14 by LSC	Water Digest/Separation	07/14/2011 00:00	10/13/2011 10:45	11/18/2011 10:03	12/06/2011 15:20	N
S11V005177	B2FB33	Carbon-14 by LSC	Water Digest/Separation	07/15/2011 10:42	10/13/2011 10:45	11/18/2011 10:03	12/06/2011 15:20	N
S11V005195	B2FB34	Carbon-14 by LSC	Water Digest/Separation	07/19/2011 00:00	10/13/2011 10:45	11/18/2011 10:03	12/06/2011 15:20	N
S11V005459	B2FPF1	Carbon-14 by LSC	Water Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/18/2011 10:03	12/06/2011 15:20	N
S11V005475	B2FPF2	Carbon-14 by LSC	Water Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/18/2011 10:03	12/06/2011 15:20	N
S11V005864	B2FPR7	Carbon-14 by LSC	Water Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	11/28/2011 14:44	12/08/2011 13:55	N
S11V005878	B2FPR8	Carbon-14 by LSC	Water Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	12/13/2011 15:10	12/14/2011 13:15	N
S11V005897	B2FYM3	Carbon-14 by LSC	Water Digest/Separation	10/26/2011 09:00	10/27/2011 11:03	11/28/2011 14:44	12/08/2011 13:55	N
S11V005916	B2FYM4	Carbon-14 by LSC	Water Digest/Separation	10/26/2011 10:14	10/27/2011 11:10	11/28/2011 14:44	12/08/2011 13:55	N
S11V005935	B2FYM5	Carbon-14 by LSC	Water Digest/Separation	10/26/2011 12:00	10/27/2011 11:30	11/28/2011 14:44	12/08/2011 13:55	N
S11V005954	B2FYM6	Carbon-14 by LSC	Water Digest/Separation	11/03/2011 09:00	11/09/2011 12:55	12/13/2011 15:10	12/14/2011 13:15	N
S11V005973	B2FYM7	Carbon-14 by LSC	Water Digest/Separation	11/04/2011 09:00	11/09/2011 01:00	11/28/2011 14:44	12/08/2011 13:55	N
S11V005992	B2FYM8	Carbon-14 by LSC	Water Digest/Separation	11/07/2011 10:47	11/09/2011 01:00	11/28/2011 14:44	12/08/2011 13:55	N
S11V006011	B2FYM9	Carbon-14 by LSC	Water Digest/Separation	11/08/2011 10:20	11/09/2011 01:00	11/28/2011 14:44	12/08/2011 13:55	N

Holding Time Report: Cyanide

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Analysis Date	Missed Holding Time
S11V004723	B2B1L8	SW846-9014/SM4500-CN	SW846-9010C	05/25/2011 08:40	05/25/2011 10:20	06/03/2011 14:19	N
S11V004739	B2B1L9	SW846-9014/SM4500-CN	SW846-9010C	05/25/2011 08:40	05/25/2011 10:20	06/03/2011 14:19	N
S11V004779	B2D1X2	SW846-9014/SM4500-CN	SW846-9010C	05/31/2011 13:20	06/02/2011 11:09	06/03/2011 14:19	N
S11V004819	B2D1X4	SW846-9014/SM4500-CN	SW846-9010C	06/01/2011 09:51	06/02/2011 10:45	06/03/2011 14:19	N
S11V004837	B2D1X5	SW846-9014/SM4500-CN	SW846-9010C	06/03/2011 09:30	06/03/2011 10:40	06/15/2011 14:40	N
S11V004855	B2D1X6	SW846-9014/SM4500-CN	SW846-9010C	06/08/2011 09:20	06/08/2011 10:10	06/15/2011 14:40	N
S11V004904	B2D1X7	SW846-9014/SM4500-CN	SW846-9010C	06/14/2011 00:00	06/14/2011 07:53	06/15/2011 14:40	N
S11V004922	B2D1X8	SW846-9014/SM4500-CN	SW846-9010C	06/14/2011 00:00	06/14/2011 10:50	06/23/2011 15:15	N
S11V004940	B2D1X9	SW846-9014/SM4500-CN	SW846-9010C	06/20/2011 00:00	06/20/2011 11:18	06/23/2011 15:15	N
S11V004958	B2D1Y0	SW846-9014/SM4500-CN	SW846-9010C	06/20/2011 00:00	06/20/2011 12:15	06/23/2011 15:15	N
S11V005857	B2FPR7	SW846-9014/SM4500-CN	SW846-9010C	10/25/2011 09:45	10/25/2011 12:00	10/27/2011 15:00	N
S11V005871	B2FPR8	SW846-9014/SM4500-CN	SW846-9010C	10/25/2011 09:45	10/25/2011 12:00	10/27/2011 15:00	N
S11V005890	B2FYM3	SW846-9014/SM4500-CN	SW846-9010C	10/26/2011 09:00	10/27/2011 11:03	10/31/2011 14:55	N
S11V005909	B2FYM4	SW846-9014/SM4500-CN	SW846-9010C	10/26/2011 10:15	10/27/2011 11:10	10/31/2011 14:55	N
S11V005928	B2FYM5	SW846-9014/SM4500-CN	SW846-9010C	10/26/2011 12:00	10/27/2011 11:30	10/31/2011 14:55	N
S11V005947	B2FYM6	SW846-9014/SM4500-CN	SW846-9010C	11/03/2011 09:00	11/09/2011 12:55	11/17/2011 14:45	N
S11V005966	B2FYM7	SW846-9014/SM4500-CN	SW846-9010C	11/04/2011 09:00	11/09/2011 01:00	12/14/2011 11:00	Y
S11V005985	B2FYM8	SW846-9014/SM4500-CN	SW846-9010C	11/07/2011 10:47	11/09/2011 01:00	11/17/2011 14:45	N
S11V006004	B2FYM9	SW846-9014/SM4500-CN	SW846-9010C	11/08/2011 10:20	11/09/2011 01:00	11/17/2011 14:45	N
S11V004720	B2B1N7	SW846-9014/SM4500-CN	SW846-9010C	06/15/2011 10:00	06/15/2011 11:00	06/16/2011 14:30	N
S11V005014	B2B1N8	SW846-9014/SM4500-CN	SW846-9010C	07/18/2011 09:00	07/18/2011 10:00	09/14/2011 15:30	Y

Holding Time Report: Conductivity

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Analysis Date	Missed Holding Time
S11V004725	B2B1L8 WE	SW-846 9050A	Vadose Water Digest	05/25/2011 08:40	05/25/2011 10:20	07/19/2011 19:15	Y
S11V004742	B2B1L9 WE	SW-846 9050A	Vadose Water Digest	05/25/2011 08:40	05/25/2011 10:20	07/19/2011 19:15	Y
S11V004782	B2D1X2 WE	SW-846 9050A	Vadose Water Digest	05/31/2011 13:20	06/02/2011 08:53	07/19/2011 19:15	Y
S11V004821	B2D1X4 WE	SW-846 9050A	Vadose Water Digest	06/01/2011 09:51	06/02/2011 10:45	07/19/2011 19:15	Y
S11V004839	B2D1X5 WE	SW-846 9050A	Vadose Water Digest	06/03/2011 09:30	06/03/2011 10:40	07/19/2011 19:15	Y
S11V004857	B2D1X6 WE	SW-846 9050A	Vadose Water Digest	06/09/2011 00:00	06/09/2011 13:12	07/19/2011 19:15	Y
S11V004906	B2D1X7 WE	SW-846 9050A	Vadose Water Digest	06/14/2011 00:00	06/14/2011 07:54	07/19/2011 19:15	Y
S11V004924	B2D1X8 WE	SW-846 9050A	Vadose Water Digest	06/14/2011 00:00	06/16/2011 07:48	07/19/2011 19:15	Y
S11V004942	B2D1X9 WE	SW-846 9050A	Vadose Water Digest	06/20/2011 00:00	06/20/2011 11:18	07/19/2011 19:15	Y
S11V004960	B2D1Y0 WE	SW-846 9050A	Vadose Water Digest	06/20/2011 00:00	06/20/2011 12:15	07/19/2011 19:15	Y
S11V006146	B2FPR7 WE	SW-846 9050A	Vadose Water Digest	10/25/2011 09:45	10/25/2011 12:00	11/20/2011 16:35	N
S11V006149	B2FPR8 WE	SW-846 9050A	Vadose Water Digest	10/25/2011 09:45	10/25/2011 12:00	11/20/2011 16:35	N
S11V006152	B2FYM3 WE	SW-846 9050A	Vadose Water Digest	10/26/2011 09:00	10/27/2011 11:03	11/20/2011 16:35	N
S11V006155	B2FYM4 WE	SW-846 9050A	Vadose Water Digest	10/26/2011 10:15	10/27/2011 11:10	11/20/2011 16:35	N
S11V006158	B2FYM5 WE	SW-846 9050A	Vadose Water Digest	10/26/2011 12:00	10/27/2011 11:30	11/20/2011 16:35	N
S11V006161	B2FYM6 WE	SW-846 9050A	Vadose Water Digest	11/03/2011 09:00	11/09/2011 12:55	11/20/2011 16:35	N
S11V006164	B2FYM7 WE	SW-846 9050A	Vadose Water Digest	11/04/2011 09:00	11/09/2011 13:09	11/20/2011 16:35	N
S11V006167	B2FYM8 WE	SW-846 9050A	Vadose Water Digest	11/07/2011 10:47	11/09/2011 01:00	11/20/2011 16:35	N
S11V006170	B2FYM9 WE	SW-846 9050A	Vadose Water Digest	11/08/2011 10:20	11/10/2011 13:11	11/20/2011 16:35	N

Holding Time Report: Gamma Energy Analysis

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Analysis Date	Missed Holding Time
S11V004724	B2B1L8	GEA	N/A	05/25/2011 08:40	05/25/2011 10:20	06/15/2011 09:55	N
S11V004740	B2B1L9	GEA	N/A	05/25/2011 08:40	05/25/2011 10:20	06/15/2011 15:02	N
S11V004718	B2B1N7	GEA	N/A	06/15/2011 10:00	06/15/2011 11:00	06/20/2011 21:51	N
S11V005012	B2B1N8	GEA	N/A	07/18/2011 09:00	07/18/2011 10:00	07/19/2011 23:28	N
S11V004780	B2D1X2	GEA	N/A	05/31/2011 13:20	06/02/2011 08:53	06/15/2011 16:29	N
S11V004820	B2D1X4	GEA	N/A	06/01/2011 09:51	06/02/2011 10:49	06/15/2011 20:19	N
S11V004838	B2D1X5	GEA	N/A	06/03/2011 09:30	06/03/2011 10:40	06/15/2011 22:29	N
S11V004856	B2D1X6	GEA	N/A	06/09/2011 00:00	06/09/2011 13:08	06/16/2011 09:18	N
S11V004905	B2D1X7	GEA	N/A	06/14/2011 00:00	06/14/2011 07:53	09/14/2011 13:17	N
S11V004923	B2D1X8	GEA	N/A	06/14/2011 00:00	06/14/2011 10:50	09/08/2011 18:21	N
S11V004941	B2D1X9	GEA	N/A	06/20/2011 00:00	06/20/2011 11:18	09/15/2011 07:57	N
S11V004959	B2D1Y0	GEA	N/A	06/20/2011 00:00	06/20/2011 12:15	09/15/2011 15:24	N
S11V005056	B2FB27	GEA	N/A	06/30/2011 10:42	10/13/2011 10:45	10/25/2011 21:12	N
S11V005096	B2FB29	GEA	N/A	06/30/2011 09:45	10/13/2011 10:45	10/31/2011 14:45	N
S11V005115	B2FB30	GEA	N/A	06/30/2011 10:30	10/13/2011 10:45	10/26/2011 12:45	N
S11V005133	B2FB31	GEA	N/A	07/12/2011 09:40	10/13/2011 10:45	10/26/2011 18:45	N
S11V005151	B2FB32	GEA	N/A	07/14/2011 00:00	10/13/2011 10:45	10/26/2011 20:01	N
S11V005169	B2FB33	GEA	N/A	07/15/2011 10:42	10/13/2011 10:45	10/27/2011 19:34	N
S11V005187	B2FB34	GEA	N/A	07/19/2011 00:00	10/13/2011 10:45	10/27/2011 12:41	N
S11V005450	B2FPF1	GEA	N/A	07/21/2011 08:45	10/13/2011 10:45	10/27/2011 16:09	N
S11V005466	B2FPF2	GEA	N/A	07/21/2011 08:45	10/13/2011 10:45	10/28/2011 11:41	N
S11V005858	B2FPR7	GEA	N/A	10/25/2011 09:45	10/25/2011 12:00	11/16/2011 14:09	N
S11V005872	B2FPR8	GEA	N/A	10/25/2011 09:45	10/25/2011 12:00	11/17/2011 21:54	N
S11V005891	B2FYM3	GEA	N/A	10/26/2011 09:00	10/27/2011 11:03	11/16/2011 16:43	N
S11V005910	B2FYM4	GEA	N/A	10/26/2011 10:15	10/27/2011 11:10	11/16/2011 22:14	N
S11V005929	B2FYM5	GEA	N/A	10/26/2011 12:00	10/27/2011 11:30	11/17/2011 10:35	N
S11V005948	B2FYM6	GEA	N/A	11/03/2011 09:00	11/09/2011 12:55	11/17/2011 11:14	N
S11V005967	B2FYM7	GEA	N/A	11/04/2011 09:00	11/09/2011 01:00	11/17/2011 13:51	N
S11V005986	B2FYM8	GEA	N/A	11/07/2011 10:47	11/09/2011 01:00	11/17/2011 19:32	N
S11V006005	B2FYM9	GEA	N/A	11/08/2011 10:20	11/09/2011 01:00	11/18/2011 18:29	N

Holding Time Report: CVAA Mercury

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Analysis Date	Missed Holding Time
S11V004723	B2B1L8	SW-846 7471A	SW-846 7471A	05/25/2011 08:40	05/25/2011 10:20	06/14/2011 14:33	N
S11V004739	B2B1L9	SW-846 7471A	SW-846 7471A	05/25/2011 08:40	05/25/2011 10:20	06/14/2011 14:33	N
S11V004716	B2B1N7	SW-846 7470A	SW-846 7470A	06/15/2011 10:00	06/15/2011 11:00	07/14/2011 15:17	Y
S11V005010	B2B1N8	SW-846 7470A	SW-846 7470A	07/18/2011 09:00	07/18/2011 10:00	10/10/2011 09:45	Y
S11V004779	B2D1X2	SW-846 7471A	SW-846 7471A	05/31/2011 13:20	06/02/2011 11:09	06/14/2011 14:33	N
S11V004819	B2D1X4	SW-846 7471A	SW-846 7471A	06/01/2011 09:51	06/02/2011 10:45	06/14/2011 14:33	N
S11V004837	B2D1X5	SW-846 7471A	SW-846 7471A	06/03/2011 09:30	06/03/2011 10:40	06/14/2011 14:33	N
S11V004855	B2D1X6	SW-846 7471A	SW-846 7471A	06/08/2011 09:20	06/08/2011 10:10	06/14/2011 14:33	N
S11V004904	B2D1X7	SW-846 7471A	SW-846 7471A	06/14/2011 00:00	06/14/2011 07:53	06/14/2011 14:33	N
S11V004922	B2D1X8	SW-846 7471A	SW-846 7471A	06/14/2011 00:00	06/14/2011 10:50	07/15/2011 15:19	Y
S11V004940	B2D1X9	SW-846 7471A	SW-846 7471A	06/20/2011 00:00	06/20/2011 11:18	07/15/2011 15:24	N
S11V004958	B2D1Y0	SW-846 7471A	SW-846 7471A	06/20/2011 00:00	06/20/2011 12:15	07/15/2011 15:26	N
S11V005857	B2FPR7	SW-846 7471A	SW-846 7471A	10/25/2011 09:45	10/25/2011 12:00	11/02/2011 14:20	N
S11V005871	B2FPR8	SW-846 7471A	SW-846 7471A	10/25/2011 09:45	10/25/2011 12:00	11/02/2011 14:20	N
S11V005890	B2FYM3	SW-846 7471A	SW-846 7471A	10/26/2011 09:00	10/27/2011 11:03	11/02/2011 14:20	N
S11V005909	B2FYM4	SW-846 7471A	SW-846 7471A	10/26/2011 10:15	10/27/2011 11:10	11/02/2011 14:20	N
S11V005928	B2FYM5	SW-846 7471A	SW-846 7471A	10/26/2011 12:00	10/27/2011 11:30	11/02/2011 14:20	N
S11V005947	B2FYM6	SW-846 7471A	SW-846 7471A	11/03/2011 09:00	11/09/2011 12:55	11/29/2011 08:30	N
S11V005966	B2FYM7	SW-846 7471A	SW-846 7471A	11/04/2011 09:00	11/09/2011 01:00	11/29/2011 08:30	N
S11V005985	B2FYM8	SW-846 7471A	SW-846 7471A	11/07/2011 10:47	11/09/2011 01:00	11/29/2011 08:30	N
S11V006004	B2FYM9	SW-846 7471A	SW-846 7471A	11/08/2011 10:20	11/09/2011 01:00	11/29/2011 08:30	N

Holding Time Report: IC Anions & Orgainc Acids

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004729	B2B1L8	SW-846 9056A	Water Digest	05/25/2011 08:40	05/25/2011 10:20	09/14/2011 08:45	09/15/2011 01:50	N
S11V004746	B2B1L9	SW-846 9056A	Water Digest	05/25/2011 08:40	05/25/2011 10:20	09/14/2011 08:45	09/15/2011 03:58	N
S11V004719	B2B1N7	SW-846 9056A	N/A	06/15/2011 10:00	06/15/2011 11:00	N/A	06/15/2011 19:35	N
S11V005013	B2B1N8	SW-846 9056A	N/A	07/18/2011 09:00	07/18/2011 10:00	N/A	07/19/2011 13:14	N
S11V004786	B2D1X2	SW-846 9056A	Water Digest	05/31/2011 13:20	06/02/2011 08:53	09/14/2011 08:45	09/15/2011 04:30	N
S11V004824	B2D1X4	SW-846 9056A	Water Digest	06/01/2011 09:51	06/02/2011 10:45	09/14/2011 08:45	09/15/2011 05:02	N
S11V004842	B2D1X5	SW-846 9056A	Water Digest	06/03/2011 09:30	06/03/2011 10:40	09/14/2011 08:45	09/15/2011 05:34	N
S11V004860	B2D1X6	SW-846 9056A	Water Digest	06/09/2011 00:00	06/09/2011 13:08	09/14/2011 08:45	09/15/2011 07:09	N
S11V004909	B2D1X7	SW-846 9056A	Water Digest	06/14/2011 00:00	06/14/2011 07:53	09/14/2011 08:45	09/15/2011 07:41	N
S11V004927	B2D1X8	SW-846 9056A	Water Digest	06/14/2011 00:00	06/14/2011 10:50	09/14/2011 08:45	09/15/2011 08:13	N
S11V004945	B2D1X9	SW-846 9056A	Water Digest	06/20/2011 00:00	06/20/2011 11:18	09/14/2011 08:45	09/15/2011 08:45	N
S11V004963	B2D1Y0	SW-846 9056A	Water Digest	06/20/2011 00:00	06/20/2011 12:15	09/14/2011 08:45	09/15/2011 09:17	N
S11V005061	B2FB27	SW-846 9056A	Water Digest	06/30/2011 10:42	10/13/2011 10:45	10/24/2011 14:00	10/26/2011 06:40	N
S11V005101	B2FB29	SW-846 9056A	Water Digest	06/30/2011 09:45	10/13/2011 10:45	10/24/2011 14:00	10/26/2011 07:12	N
S11V005119	B2FB30	SW-846 9056A	Water Digest	06/30/2011 10:30	10/13/2011 10:45	10/24/2011 14:00	10/26/2011 07:44	N
S11V005137	B2FB31	SW-846 9056A	Water Digest	07/12/2011 09:40	10/13/2011 10:45	11/11/2011 09:00	11/12/2011 09:41	N
S11V005155	B2FB32	SW-846 9056A	Water Digest	07/14/2011 00:00	10/13/2011 10:45	10/24/2011 14:00	10/26/2011 09:52	N
S11V005173	B2FB33	SW-846 9056A	Water Digest	07/15/2011 10:42	10/13/2011 10:45	10/24/2011 14:00	10/26/2011 10:24	N
S11V005191	B2FB34	SW-846 9056A	Water Digest	07/19/2011 00:00	10/13/2011 10:45	10/24/2011 14:00	10/26/2011 10:56	N
S11V005455	B2FPF1	SW-846 9056A	Water Digest	07/21/2011 08:45	10/13/2011 10:45	10/24/2011 14:00	10/26/2011 04:00	N
S11V005471	B2FPF2	SW-846 9056A	Water Digest	07/21/2011 08:45	10/13/2011 10:45	10/24/2011 14:00	10/26/2011 06:08	N
S11V005861	B2FPR7	SW-846 9056A	Water Digest	10/25/2011 09:45	10/25/2011 12:00	12/01/2011 09:30	12/01/2011 19:43	N
S11V005875	B2FPR8	SW-846 9056A	Water Digest	10/25/2011 09:45	10/25/2011 12:00	12/01/2011 09:30	12/01/2011 22:23	N
S11V005894	B2FYM3	SW-846 9056A	Water Digest	10/26/2011 09:00	10/27/2011 11:03	12/01/2011 09:30	12/01/2011 22:55	N
S11V005913	B2FYM4	SW-846 9056A	Water Digest	10/26/2011 10:15	10/27/2011 11:10	12/01/2011 09:30	12/01/2011 23:27	N
S11V005932	B2FYM5	SW-846 9056A	Water Digest	10/26/2011 12:00	10/27/2011 11:30	12/01/2011 09:30	12/02/2011 01:03	N
S11V005951	B2FYM6	SW-846 9056A	Water Digest	11/03/2011 09:00	11/09/2011 12:55	12/28/2011 09:30	12/29/2011 15:16	N
S11V005970	B2FYM7	SW-846 9056A	Water Digest	11/04/2011 09:00	11/09/2011 01:00	12/28/2011 09:30	12/29/2011 17:23	N
S11V005989	B2FYM8	SW-846 9056A	Water Digest	11/07/2011 10:47	11/09/2011 01:00	12/28/2011 09:30	12/29/2011 17:55	N
S11V006008	B2FYM9	SW-846 9056A	Water Digest	11/08/2011 10:20	11/09/2011 01:00	12/28/2011 09:30	12/29/2011 18:27	N

Holding Time Report: IC Ammonium

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004731	B2B1L8	EPA 300.7	Distillation	05/25/2011 08:40	05/25/2011 10:20	05/27/2011 18:30	05/27/2011 20:18	N
S11V004748	B2B1L9	EPA 300.7	Distillation	05/25/2011 08:40	05/25/2011 10:20	05/27/2011 18:30	05/27/2011 21:26	N
S11V004721	B2B1N7	EPA 300.7	Distillation	06/15/2011 10:00	06/15/2011 11:00	06/17/2011 10:53	06/17/2011 20:10	N
S11V005015	B2B1N8	EPA 300.7	Distillation	07/18/2011 09:00	07/18/2011 10:00	07/19/2011 10:44	07/19/2011 15:39	N
S11V004788	B2D1X2	EPA 300.7	Distillation	05/31/2011 13:20	06/02/2011 08:53	06/03/2011 10:48	06/03/2011 15:29	N
S11V004826	B2D1X4	EPA 300.7	Distillation	06/01/2011 09:51	06/02/2011 10:45	06/03/2011 10:48	06/03/2011 16:20	N
S11V004844	B2D1X5	EPA 300.7	Distillation	06/03/2011 09:30	06/03/2011 10:40	06/07/2011 19:30	06/07/2011 21:47	N
S11V004862	B2D1X6	EPA 300.7	Distillation	06/09/2011 00:00	06/09/2011 13:17	06/13/2011 16:01	06/13/2011 17:32	N
S11V004911	B2D1X7	EPA 300.7	Distillation	06/14/2011 00:00	06/14/2011 07:53	06/17/2011 10:58	06/17/2011 16:45	N
S11V004929	B2D1X8	EPA 300.7	Distillation	06/14/2011 00:00	06/14/2011 10:50	06/17/2011 10:58	06/17/2011 17:53	N
S11V004947	B2D1X9	EPA 300.7	Distillation	06/20/2011 00:00	06/20/2011 11:18	06/22/2011 09:44	06/22/2011 15:26	N
S11V004965	B2D1Y0	EPA 300.7	Distillation	06/20/2011 00:00	06/20/2011 12:15	06/22/2011 09:44	06/22/2011 16:34	N
S11V006145	B2FPR7	EPA 300.7	Distillation	10/25/2011 09:45	10/25/2011 12:00	10/27/2011 13:40	10/27/2011 20:34	N
S11V006148	B2FPR8	EPA 300.7	Distillation	10/25/2011 09:45	10/25/2011 12:00	10/27/2011 13:40	10/27/2011 21:42	N
S11V006151	B2FYM3	EPA 300.7	Distillation	10/26/2011 09:00	10/27/2011 11:03	10/31/2011 13:45	10/31/2011 15:51	N
S11V006154	B2FYM4	EPA 300.7	Distillation	10/26/2011 10:15	10/27/2011 11:10	10/31/2011 13:45	10/31/2011 17:16	N
S11V006157	B2FYM5	EPA 300.7	Distillation	10/26/2011 12:00	10/27/2011 11:30	10/31/2011 13:45	10/31/2011 17:33	N
S11V006160	B2FYM6	EPA 300.7	Distillation	11/03/2011 09:00	11/09/2011 12:55	11/09/2011 14:30	11/09/2011 23:06	N
S11V006163	B2FYM7	EPA 300.7	Distillation	11/04/2011 09:00	11/09/2011 01:00	11/09/2011 14:30	11/10/2011 00:15	N
S11V006166	B2FYM8	EPA 300.7	Distillation	11/07/2011 10:47	11/09/2011 01:00	11/09/2011 14:30	11/10/2011 00:32	N
S11V006169	B2FYM9	EPA 300.7	Distillation	11/08/2011 10:20	11/09/2011 13:10	11/10/2011 15:00	11/16/2011 19:33	N

Holding Time Report: ICP/AES Metals

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004730	B2B1L8	SW-846 6010C	SW-846 3050B	05/25/2011 08:40	05/25/2011 10:20	10/12/2011 09:00	10/18/2011 11:32	N
S11V004747	B2B1L9	SW-846 6010C	SW-846 3050B	05/25/2011 08:40	05/25/2011 10:20	10/12/2011 09:00	10/18/2011 12:51	N
S11V004716	B2B1N7	SW-846 6010C	N/A	06/15/2011 10:00	06/15/2011 11:00	N/A	10/04/2011 10:31	N
S11V005010	B2B1N8	SW-846 6010C	N/A	07/18/2011 09:00	07/18/2011 10:00	N/A	10/04/2011 10:44	N
S11V004787	B2D1X2	SW-846 6010C	SW-846 3050B	05/31/2011 13:20	06/02/2011 08:53	10/12/2011 09:00	10/18/2011 12:53	N
S11V004825	B2D1X4	SW-846 6010C	SW-846 3050B	06/01/2011 09:51	06/02/2011 10:45	10/12/2011 09:00	10/18/2011 12:55	N
S11V004843	B2D1X5	SW-846 6010C	SW-846 3050B	06/03/2011 09:30	06/03/2011 10:40	10/12/2011 09:00	10/18/2011 12:58	N
S11V004861	B2D1X6	SW-846 6010C	SW-846 3050B	06/09/2011 00:00	06/09/2011 13:18	10/12/2011 09:00	10/18/2011 12:59	N
S11V004910	B2D1X7	SW-846 6010C	SW-846 3050B	06/14/2011 00:00	06/14/2011 07:53	10/12/2011 09:00	10/18/2011 13:01	N
S11V004928	B2D1X8	SW-846 6010C	SW-846 3050B	06/14/2011 00:00	06/14/2011 10:50	10/12/2011 09:00	10/18/2011 13:22	N
S11V004946	B2D1X9	SW-846 6010C	SW-846 3050B	06/20/2011 00:00	06/20/2011 11:18	10/12/2011 09:00	10/18/2011 13:24	N
S11V004964	B2D1Y0	SW-846 6010C	SW-846 3050B	06/20/2011 00:00	06/20/2011 12:15	10/12/2011 09:00	10/18/2011 13:25	N
S11V005062	B2FB27	SW-846 6010C	SW-846 3050B	06/30/2011 10:42	10/13/2011 10:45	10/27/2011 09:00	11/10/2011 15:48	N
S11V005102	B2FB29	SW-846 6010C	SW-846 3050B	06/30/2011 09:45	10/13/2011 10:45	10/27/2011 09:00	11/10/2011 15:50	N
S11V005120	B2FB30	SW-846 6010C	SW-846 3050B	06/30/2011 10:30	10/13/2011 10:45	10/27/2011 09:00	11/10/2011 15:51	N
S11V005138	B2FB31	SW-846 6010C	SW-846 3050B	07/12/2011 09:40	10/13/2011 10:45	10/27/2011 09:00	11/10/2011 15:53	N
S11V005156	B2FB32	SW-846 6010C	SW-846 3050B	07/14/2011 00:00	10/13/2011 10:45	10/27/2011 09:00	11/10/2011 15:55	N
S11V005174	B2FB33	SW-846 6010C	SW-846 3050B	07/15/2011 10:42	10/13/2011 10:45	10/27/2011 09:00	11/10/2011 15:56	N
S11V005192	B2FB34	SW-846 6010C	SW-846 3050B	07/19/2011 00:00	10/13/2011 10:45	10/20/2011 09:00	11/10/2011 15:58	N
S11V005456	B2FPF1	SW-846 6010C	SW-846 3050B	07/21/2011 08:45	10/13/2011 10:45	10/27/2011 09:00	11/10/2011 15:24	N
S11V005472	B2FPF2	SW-846 6010C	SW-846 3050B	07/21/2011 08:45	10/13/2011 10:45	10/27/2011 09:00	11/10/2011 16:00	N
S11V005862	B2FPR7	SW-846 6010C	SW-846 3050B	10/25/2011 09:45	10/25/2011 12:00	11/17/2011 16:30	12/08/2011 11:49	N
S11V005876	B2FPR8	SW-846 6010C	SW-846 3050B	10/25/2011 09:45	10/25/2011 12:00	11/17/2011 16:30	12/08/2011 13:46	N
S11V005895	B2FYM3	SW-846 6010C	SW-846 3050B	10/26/2011 09:00	10/27/2011 11:03	11/17/2011 16:30	12/08/2011 13:48	N
S11V005914	B2FYM4	SW-846 6010C	SW-846 3050B	10/26/2011 10:15	10/27/2011 11:10	11/17/2011 16:30	12/08/2011 13:50	N
S11V005933	B2FYM5	SW-846 6010C	SW-846 3050B	10/26/2011 12:00	10/27/2011 11:30	11/17/2011 16:30	12/08/2011 13:52	N
S11V005952	B2FYM6	SW-846 6010C	SW-846 3050B	11/03/2011 09:00	11/09/2011 12:55	11/17/2011 16:30	12/08/2011 13:54	N
S11V005971	B2FYM7	SW-846 6010C	SW-846 3050B	11/04/2011 09:00	11/09/2011 01:00	11/17/2011 16:30	12/08/2011 13:57	N
S11V005990	B2FYM8	SW-846 6010C	SW-846 3050B	11/07/2011 10:47	11/09/2011 01:00	11/17/2011 16:30	12/08/2011 13:59	N
S11V006009	B2FYM9	SW-846 6010C	SW-846 3050B	11/08/2011 10:20	11/09/2011 01:00	11/17/2011 16:30	12/08/2011 14:01	N

Holding Time Report: Iodine-129

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Analysis Date	Missed Holding Time
S11V004717	B2B1N7	Iodine-129/GEA	Separation	06/15/2011 10:00	06/15/2011 11:00	09/27/2011 09:15	N
S11V004724	B2B1L8	Iodine-129/GEA	Separation	05/25/2011 08:40	05/25/2011 10:20	10/06/2011 16:00	N
S11V004740	B2B1L9	Iodine-129/GEA	Fusion Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	10/06/2011 16:00	N
S11V004780	B2D1X2	Iodine-129/GEA	Fusion Digest/Separation	05/31/2011 13:20	06/02/2011 08:53	10/06/2011 16:00	N
S11V004820	B2D1X4	Iodine-129/GEA	Fusion Digest/Separation	06/01/2011 09:51	06/02/2011 10:49	10/06/2011 16:00	N
S11V004838	B2D1X5	Iodine-129/GEA	Fusion Digest/Separation	06/03/2011 09:30	06/03/2011 10:40	10/06/2011 16:00	N
S11V004856	B2D1X6	Iodine-129/GEA	Fusion Digest/Separation	06/09/2011 00:00	06/09/2011 13:08	10/06/2011 16:00	N
S11V004905	B2D1X7	Iodine-129/GEA	Fusion Digest/Separation	06/14/2011 00:00	06/14/2011 07:53	10/06/2011 16:00	N
S11V004923	B2D1X8	Iodine-129/GEA	Fusion Digest/Separation	06/14/2011 00:00	06/14/2011 10:50	10/06/2011 16:00	N
S11V004941	B2D1X9	Iodine-129/GEA	Fusion Digest/Separation	06/20/2011 00:00	06/20/2011 11:18	10/06/2011 16:00	N
S11V004959	B2D1Y0	Iodine-129/GEA	Fusion Digest/Separation	06/20/2011 00:00	06/20/2011 12:15	10/06/2011 16:00	N
S11V005011	B2B1N8	Iodine-129/GEA	Fusion Digest/Separation	07/18/2011 09:00	07/18/2011 10:00	09/14/2011 14:20	N
S11V005056	B2FB27	Iodine-129/GEA	Fusion Digest/Separation	06/30/2011 10:42	10/13/2011 10:45	11/30/2011 15:00	N
S11V005096	B2FB29	Iodine-129/GEA	Fusion Digest/Separation	06/30/2011 09:45	10/13/2011 10:45	11/30/2011 15:00	N
S11V005115	B2FB30	Iodine-129/GEA	Fusion Digest/Separation	06/30/2011 10:30	10/13/2011 10:45	11/30/2011 15:00	N
S11V005133	B2FB31	Iodine-129/GEA	Fusion Digest/Separation	07/12/2011 09:40	10/13/2011 10:45	11/30/2011 15:00	N
S11V005151	B2FB32	Iodine-129/GEA	Fusion Digest/Separation	07/14/2011 00:00	10/13/2011 10:45	11/30/2011 15:00	N
S11V005169	B2FB33	Iodine-129/GEA	Fusion Digest/Separation	07/15/2011 10:42	10/13/2011 10:45	11/30/2011 15:00	N
S11V005187	B2FB34	Iodine-129/GEA	Fusion Digest/Separation	07/19/2011 00:00	10/13/2011 10:45	11/30/2011 15:00	N
S11V005450	B2FPF1	Iodine-129/GEA	Fusion Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	01/03/2012 15:30	N
S11V005466	B2FPF2	Iodine-129/GEA	Fusion Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/30/2011 15:00	N
S11V005858	B2FPR7	Iodine-129/GEA	Fusion Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	12/06/2011 16:00	N
S11V005872	B2FPR8	Iodine-129/GEA	Fusion Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	12/06/2011 16:00	N
S11V005891	B2FYM3	Iodine-129/GEA	Fusion Digest/Separation	10/26/2011 09:00	10/27/2011 11:03	12/06/2011 16:00	N
S11V005910	B2FYM4	Iodine-129/GEA	Fusion Digest/Separation	10/26/2011 10:15	10/27/2011 11:10	12/06/2011 16:00	N
S11V005929	B2FYM5	Iodine-129/GEA	Fusion Digest/Separation	10/26/2011 12:00	10/27/2011 11:30	12/06/2011 16:00	N
S11V005948	B2FYM6	Iodine-129/GEA	Fusion Digest/Separation	11/03/2011 09:00	11/09/2011 12:55	12/06/2011 16:00	N
S11V005967	B2FYM7	Iodine-129/GEA	Fusion Digest/Separation	11/04/2011 09:00	11/09/2011 01:00	12/06/2011 16:00	N
S11V005986	B2FYM8	Iodine-129/GEA	Fusion Digest/Separation	11/07/2011 10:47	11/09/2011 01:00	12/06/2011 16:00	N
S11V006005	B2FYM9	Iodine-129/GEA	Fusion Digest/Separation	11/08/2011 10:20	11/09/2011 01:00	12/06/2011 16:00	N

Holding Time Report: ICP/MS Actinides

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004730	B2B1L8	ICP/MS Actinides	SW-846 3050B	05/25/2011 08:40	05/25/2011 10:20	10/12/2011 09:00	11/22/2011 11:42	Y
S11V004747	B2B1L9	ICP/MS Actinides	SW-846 3050B	05/25/2011 08:40	05/25/2011 10:20	10/12/2011 09:00	11/22/2011 11:55	Y
S11V004716	B2B1N7	ICP/MS Actinides	N/A	06/15/2011 10:00	06/15/2011 11:00	N/A	09/23/2011 17:49	N
S11V005010	B2B1N8	ICP/MS Actinides	N/A	07/18/2011 09:00	07/18/2011 10:00	N/A	09/23/2011 18:02	N
S11V004787	B2D1X2	ICP/MS Actinides	SW-846 3050B	05/31/2011 13:20	06/02/2011 08:53	10/12/2011 09:00	11/22/2011 12:01	N
S11V004825	B2D1X4	ICP/MS Actinides	SW-846 3050B	06/01/2011 09:51	06/02/2011 10:45	10/12/2011 09:00	11/22/2011 12:08	N
S11V004843	B2D1X5	ICP/MS Actinides	SW-846 3050B	06/03/2011 09:30	06/03/2011 10:40	10/12/2011 09:00	11/22/2011 12:14	N
S11V004861	B2D1X6	ICP/MS Actinides	SW-846 3050B	06/09/2011 00:00	06/09/2011 13:18	10/12/2011 09:00	11/22/2011 12:21	N
S11V004910	B2D1X7	ICP/MS Actinides	SW-846 3050B	06/14/2011 00:00	06/14/2011 07:53	10/12/2011 09:00	11/22/2011 13:00	N
S11V004928	B2D1X8	ICP/MS Actinides	SW-846 3050B	06/14/2011 00:00	06/14/2011 10:50	10/12/2011 09:00	11/22/2011 13:06	N
S11V004946	B2D1X9	ICP/MS Actinides	SW-846 3050B	06/20/2011 00:00	06/20/2011 11:18	10/12/2011 09:00	11/22/2011 13:14	N
S11V004964	B2D1Y0	ICP/MS Actinides	SW-846 3050B	06/20/2011 00:00	06/20/2011 12:15	10/12/2011 09:00	11/22/2011 13:20	N
S11V005062	B2FB27	ICP/MS Actinides	SW-846 3050B	06/30/2011 10:42	10/13/2011 10:45	10/27/2011 09:00	01/04/2012 14:07	Y
S11V005102	B2FB29	ICP/MS Actinides	SW-846 3050B	06/30/2011 09:45	10/13/2011 10:45	10/27/2011 09:00	01/04/2012 14:13	Y
S11V005120	B2FB30	ICP/MS Actinides	SW-846 3050B	06/30/2011 10:30	10/13/2011 10:45	10/27/2011 09:00	01/04/2012 14:19	Y
S11V005138	B2FB31	ICP/MS Actinides	SW-846 3050B	07/12/2011 09:40	10/13/2011 10:45	10/27/2011 09:00	01/04/2012 14:25	N
S11V005156	B2FB32	ICP/MS Actinides	SW-846 3050B	07/14/2011 00:00	10/13/2011 10:45	10/27/2011 09:00	01/04/2012 14:31	N
S11V005174	B2FB33	ICP/MS Actinides	SW-846 3050B	07/15/2011 10:42	10/13/2011 10:45	10/27/2011 09:00	01/04/2012 14:59	N
S11V005192	B2FB34	ICP/MS Actinides	SW-846 3050B	07/19/2011 00:00	10/13/2011 10:45	10/20/2011 09:00	01/04/2012 15:05	N
S11V005456	B2FPF1	ICP/MS Actinides	SW-846 3050B	07/21/2011 08:45	10/13/2011 10:45	10/27/2011 09:00	01/04/2012 13:55	N
S11V005472	B2FPF2	ICP/MS Actinides	SW-846 3050B	07/21/2011 08:45	10/13/2011 10:45	10/27/2011 09:00	01/04/2012 15:11	N
S11V005862	B2FPR7	ICP/MS Actinides	SW-846 3050B	10/25/2011 09:45	10/25/2011 12:00	11/17/2011 16:30	01/10/2012 11:42	N
S11V005876	B2FPR8	ICP/MS Actinides	SW-846 3050B	10/25/2011 09:45	10/25/2011 12:00	11/17/2011 16:30	01/10/2012 11:54	N
S11V005895	B2FYM3	ICP/MS Actinides	SW-846 3050B	10/26/2011 09:00	10/27/2011 11:03	11/17/2011 16:30	01/10/2012 12:00	N
S11V005914	B2FYM4	ICP/MS Actinides	SW-846 3050B	10/26/2011 10:15	10/27/2011 11:10	11/17/2011 16:30	01/10/2012 12:06	N
S11V005933	B2FYM5	ICP/MS Actinides	SW-846 3050B	10/26/2011 12:00	10/27/2011 11:30	11/17/2011 16:30	01/10/2012 12:12	N
S11V005952	B2FYM6	ICP/MS Actinides	SW-846 3050B	11/03/2011 09:00	11/09/2011 12:55	11/17/2011 16:30	01/10/2012 12:18	N
S11V005971	B2FYM7	ICP/MS Actinides	SW-846 3050B	11/04/2011 09:00	11/09/2011 01:00	11/17/2011 16:30	01/10/2012 12:47	N
S11V005990	B2FYM8	ICP/MS Actinides	SW-846 3050B	11/07/2011 10:47	11/09/2011 01:00	11/17/2011 16:30	01/10/2012 12:53	N
S11V006009	B2FYM9	ICP/MS Actinides	SW-846 3050B	11/08/2011 10:20	11/09/2011 01:00	11/17/2011 16:30	01/10/2012 12:59	N

Holding Time Report: ICP/MS Antimony & Tin-126

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004727	B2B1L8	SW-846 6020A	SW-846 3050B	05/25/2011 08:40	05/25/2011 10:20	07/21/2011 21:45	11/23/2011 12:26	Y
S11V004744	B2B1L9	SW-846 6020A	SW-846 3050B	05/25/2011 08:40	05/25/2011 10:20	07/21/2011 21:45	11/23/2011 12:38	Y
S11V004716	B2B1N7	SW-846 6020A	N/A	06/15/2011 10:00	06/15/2011 11:00	N/A	02/06/2012 10:30	Y
S11V005010	B2B1N8	SW-846 6020A	N/A	07/18/2011 09:00	07/18/2011 10:00	N/A	02/06/2012 10:35	Y
S11V004784	B2D1X2	SW-846 6020A	SW-846 3050B	05/31/2011 13:20	06/02/2011 08:53	07/21/2011 21:45	11/23/2011 12:44	N
S11V004822	B2D1X4	SW-846 6020A	SW-846 3050B	06/01/2011 09:51	06/02/2011 10:45	07/21/2011 21:45	11/23/2011 12:50	N
S11V004840	B2D1X5	SW-846 6020A	SW-846 3050B	06/03/2011 09:30	06/03/2011 10:40	07/21/2011 21:45	11/23/2011 12:56	N
S11V004858	B2D1X6	SW-846 6020A	SW-846 3050B	06/09/2011 00:00	06/09/2011 13:12	07/21/2011 21:45	11/23/2011 13:29	N
S11V004907	B2D1X7	SW-846 6020A	SW-846 3050B	06/14/2011 00:00	06/14/2011 07:53	07/21/2011 21:45	11/23/2011 13:35	N
S11V004925	B2D1X8	SW-846 6020A	SW-846 3050B	06/14/2011 00:00	06/14/2011 10:50	07/21/2011 21:45	11/23/2011 13:41	N
S11V004943	B2D1X9	SW-846 6020A	SW-846 3050B	06/20/2011 00:00	06/20/2011 11:18	07/21/2011 21:45	11/23/2011 13:47	N
S11V004961	B2D1Y0	SW-846 6020A	SW-846 3050B	06/20/2011 00:00	06/20/2011 12:15	07/21/2011 21:45	11/23/2011 13:53	N
S11V005059	B2FB27	SW-846 6020A	SW-846 3050B	06/30/2011 10:42	10/13/2011 10:45	10/25/2011 15:02	01/05/2012 09:55	Y
S11V005099	B2FB29	SW-846 6020A	SW-846 3050B	06/30/2011 09:45	10/13/2011 10:45	10/25/2011 15:02	01/05/2012 10:00	Y
S11V005117	B2FB30	SW-846 6020A	SW-846 3050B	06/30/2011 10:30	10/13/2011 10:45	10/25/2011 15:02	01/05/2012 10:05	Y
S11V005135	B2FB31	SW-846 6020A	SW-846 3050B	07/12/2011 09:40	10/13/2011 10:45	10/25/2011 15:02	01/05/2012 10:11	N
S11V005153	B2FB32	SW-846 6020A	SW-846 3050B	07/14/2011 00:00	10/13/2011 10:45	10/25/2011 15:02	01/05/2012 10:16	N
S11V005171	B2FB33	SW-846 6020A	SW-846 3050B	07/15/2011 10:42	10/13/2011 10:45	10/25/2011 15:02	01/05/2012 10:30	N
S11V005189	B2FB34	SW-846 6020A	SW-846 3050B	07/19/2011 00:00	10/13/2011 10:45	10/25/2011 15:02	01/05/2012 10:35	N
S11V005453	B2FPF1	SW-846 6020A	SW-846 3050B	07/21/2011 08:45	10/13/2011 10:45	10/25/2011 15:02	01/05/2012 10:51	N
S11V005469	B2FPF2	SW-846 6020A	SW-846 3050B	07/21/2011 08:45	10/13/2011 10:45	10/25/2011 15:02	01/05/2012 10:41	N
S11V005860	B2FPR7	SW-846 6020A	SW-846 3050B	10/25/2011 09:45	10/25/2011 12:00	11/10/2011 09:00	01/09/2012 10:40	N
S11V005874	B2FPR8	SW-846 6020A	SW-846 3050B	10/25/2011 09:45	10/25/2011 12:00	11/10/2011 09:00	01/09/2012 10:50	N
S11V005893	B2FYM3	SW-846 6020A	SW-846 3050B	10/26/2011 09:00	10/27/2011 11:03	11/10/2011 09:00	01/09/2012 10:54	N
S11V005912	B2FYM4	SW-846 6020A	SW-846 3050B	10/26/2011 10:15	10/27/2011 11:10	11/10/2011 09:00	01/09/2012 10:59	N
S11V005931	B2FYM5	SW-846 6020A	SW-846 3050B	10/26/2011 12:00	10/27/2011 11:30	11/10/2011 09:00	01/09/2012 11:04	N
S11V005950	B2FYM6	SW-846 6020A	SW-846 3050B	11/03/2011 09:00	11/09/2011 12:55	11/18/2011 16:30	01/09/2012 12:42	N
S11V005969	B2FYM7	SW-846 6020A	SW-846 3050B	11/04/2011 09:00	11/09/2011 01:00	11/18/2011 16:30	01/09/2012 12:52	N
S11V005988	B2FYM8	SW-846 6020A	SW-846 3050B	11/07/2011 10:47	11/09/2011 01:00	11/18/2011 16:30	01/09/2012 12:57	N
S11V006007	B2FYM9	SW-846 6020A	SW-846 3050B	11/08/2011 10:20	11/09/2011 01:00	11/18/2011 16:30	01/09/2012 13:02	N

Holding Time Report: ICP/MS Metals

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004730	B2B1L8	MS PERIODIC TABLE	ACID DIGEST, SOLID	05/25/2011 08:40	05/25/2011 10:20	10/12/2011 09:00	11/20/2011 14:41	N
S11V004747	B2B1L9	MS PERIODIC TABLE	ACID DIGEST, SOLID	05/25/2011 08:40	05/25/2011 10:20	10/12/2011 09:00	11/20/2011 14:50	N
S11V004787	B2D1X2	MS PERIODIC TABLE	ACID DIGEST, SOLID	05/31/2011 13:20	06/02/2011 08:53	10/12/2011 09:00	11/20/2011 14:55	N
S11V004825	B2D1X4	MS PERIODIC TABLE	ACID DIGEST, SOLID	06/01/2011 09:51	06/02/2011 10:45	10/12/2011 09:00	11/20/2011 15:00	N
S11V004843	B2D1X5	MS PERIODIC TABLE	ACID DIGEST, SOLID	06/03/2011 09:30	06/03/2011 10:40	10/12/2011 09:00	11/20/2011 15:05	N
S11V004861	B2D1X6	MS PERIODIC TABLE	ACID DIGEST, SOLID	06/09/2011 00:00	06/09/2011 13:18	10/12/2011 09:00	11/20/2011 15:09	N
S11V004910	B2D1X7	MS PERIODIC TABLE	ACID DIGEST, SOLID	06/14/2011 00:00	06/14/2011 07:53	10/12/2011 09:00	11/20/2011 16:13	N
S11V004928	B2D1X8	MS PERIODIC TABLE	ACID DIGEST, SOLID	06/14/2011 00:00	06/14/2011 10:50	10/12/2011 09:00	11/20/2011 15:38	N
S11V004946	B2D1X9	MS PERIODIC TABLE	ACID DIGEST, SOLID	06/20/2011 00:00	06/20/2011 11:18	10/12/2011 09:00	11/20/2011 15:43	N
S11V004964	B2D1Y0	MS PERIODIC TABLE	ACID DIGEST, SOLID	06/20/2011 00:00	06/20/2011 12:15	10/12/2011 09:00	11/20/2011 16:23	N
S11V005062	B2FB27	MS PERIODIC TABLE	ACID DIGEST, SOLID	06/30/2011 10:42	10/13/2011 10:45	10/27/2011 09:00	11/29/2011 13:17	N
S11V005102	B2FB29	MS PERIODIC TABLE	ACID DIGEST, SOLID	06/30/2011 09:45	10/13/2011 10:45	10/27/2011 09:00	11/29/2011 13:23	N
S11V005120	B2FB30	MS PERIODIC TABLE	ACID DIGEST, SOLID	06/30/2011 10:30	10/13/2011 10:45	10/27/2011 09:00	11/29/2011 13:29	N
S11V005138	B2FB31	MS PERIODIC TABLE	ACID DIGEST, SOLID	07/12/2011 09:40	10/13/2011 10:45	10/27/2011 09:00	11/29/2011 13:35	N
S11V005156	B2FB32	MS PERIODIC TABLE	ACID DIGEST, SOLID	07/14/2011 00:00	10/13/2011 10:45	10/27/2011 09:00	11/29/2011 14:13	N
S11V005174	B2FB33	MS PERIODIC TABLE	ACID DIGEST, SOLID	07/15/2011 10:42	10/13/2011 10:45	10/27/2011 09:00	11/29/2011 14:19	N
S11V005192	B2FB34	MS PERIODIC TABLE	ACID DIGEST, SOLID	07/19/2011 00:00	10/13/2011 10:45	10/20/2011 09:00	11/29/2011 14:26	N
S11V005456	B2FPF1	MS PERIODIC TABLE	ACID DIGEST, SOLID	07/21/2011 08:45	10/13/2011 10:45	10/27/2011 09:00	11/29/2011 12:58	N
S11V005472	B2FPF2	MS PERIODIC TABLE	ACID DIGEST, SOLID	07/21/2011 08:45	10/13/2011 10:45	10/27/2011 09:00	11/29/2011 13:10	N
S11V005862	B2FPR7	MS PERIODIC TABLE	ACID DIGEST, SOLID	10/25/2011 09:45	10/25/2011 12:00	11/17/2011 16:30	04/04/2012 14:36	N
S11V005876	B2FPR8	MS PERIODIC TABLE	ACID DIGEST, SOLID	10/25/2011 09:45	10/25/2011 12:00	11/17/2011 16:30	04/04/2012 14:44	N
S11V005895	B2FYM3	MS PERIODIC TABLE	ACID DIGEST, SOLID	10/26/2011 09:00	10/27/2011 11:03	11/17/2011 16:30	04/04/2012 14:48	N
S11V005914	B2FYM4	MS PERIODIC TABLE	ACID DIGEST, SOLID	10/26/2011 10:15	10/27/2011 11:10	11/17/2011 16:30	04/04/2012 14:52	N
S11V005933	B2FYM5	MS PERIODIC TABLE	ACID DIGEST, SOLID	10/26/2011 12:00	10/27/2011 11:30	11/17/2011 16:30	04/04/2012 15:17	N
S11V005952	B2FYM6	MS PERIODIC TABLE	ACID DIGEST, SOLID	11/03/2011 09:00	11/09/2011 12:55	11/17/2011 16:30	04/04/2012 15:21	N
S11V005971	B2FYM7	MS PERIODIC TABLE	ACID DIGEST, SOLID	11/04/2011 09:00	11/09/2011 01:00	11/17/2011 16:30	04/04/2012 15:25	N
S11V005990	B2FYM8	MS PERIODIC TABLE	ACID DIGEST, SOLID	11/07/2011 10:47	11/09/2011 01:00	11/17/2011 16:30	04/04/2012 15:29	N
S11V006009	B2FYM9	MS PERIODIC TABLE	ACID DIGEST, SOLID	11/08/2011 10:20	11/09/2011 01:00	11/17/2011 16:30	04/04/2012 15:33	N

Holding Time Report: ICP/MS Tc-99

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004732	B2B1L8	ICP/MS Tc-99	SW-846 3050B	05/25/2011 08:40	05/25/2011 10:20	07/22/2011 15:30	11/15/2011 14:52	N
S11V004749	B2B1L9	ICP/MS Tc-99	SW-846 3050B	05/25/2011 08:40	05/25/2011 10:20	07/22/2011 15:30	11/15/2011 15:01	N
S11V004789	B2D1X2	ICP/MS Tc-99	SW-846 3050B	05/31/2011 13:20	06/02/2011 08:53	07/22/2011 15:30	11/15/2011 15:05	N
S11V004827	B2D1X4	ICP/MS Tc-99	SW-846 3050B	06/01/2011 09:51	06/02/2011 10:45	07/22/2011 15:30	11/15/2011 15:10	N
S11V004845	B2D1X5	ICP/MS Tc-99	SW-846 3050B	06/03/2011 09:30	06/03/2011 10:40	09/15/2011 09:30	10/19/2011 14:26	N
S11V004863	B2D1X6	ICP/MS Tc-99	SW-846 3050B	06/09/2011 00:00	06/09/2011 13:17	07/22/2011 15:30	11/15/2011 15:14	N
S11V004912	B2D1X7	ICP/MS Tc-99	SW-846 3050B	06/14/2011 00:00	06/14/2011 07:53	07/22/2011 15:30	11/15/2011 15:19	N
S11V004930	B2D1X8	ICP/MS Tc-99	SW-846 3050B	06/14/2011 00:00	06/14/2011 10:50	07/22/2011 15:30	11/15/2011 15:51	N
S11V004948	B2D1X9	ICP/MS Tc-99	SW-846 3050B	06/20/2011 00:00	06/20/2011 11:18	07/22/2011 15:30	11/15/2011 15:55	N
S11V004966	B2D1Y0	ICP/MS Tc-99	SW-846 3050B	06/20/2011 00:00	06/20/2011 12:15	07/22/2011 15:30	11/15/2011 16:00	N
S11V005064	B2FB27	ICP/MS Tc-99	SW-846 3050B	06/30/2011 10:42	10/13/2011 10:45	10/21/2011 16:30	11/15/2011 17:47	N
S11V005104	B2FB29	ICP/MS Tc-99	SW-846 3050B	06/30/2011 09:45	10/13/2011 10:45	10/21/2011 16:30	11/15/2011 17:52	N
S11V005122	B2FB30	ICP/MS Tc-99	SW-846 3050B	06/30/2011 10:30	10/13/2011 10:45	10/21/2011 16:30	11/15/2011 17:56	N
S11V005140	B2FB31	ICP/MS Tc-99	SW-846 3050B	07/12/2011 09:40	10/13/2011 10:45	10/21/2011 16:30	11/15/2011 18:01	N
S11V005158	B2FB32	ICP/MS Tc-99	SW-846 3050B	07/14/2011 00:00	10/13/2011 10:45	10/21/2011 16:30	11/15/2011 18:05	N
S11V005176	B2FB33	ICP/MS Tc-99	SW-846 3050B	07/15/2011 10:42	10/13/2011 10:45	10/21/2011 16:30	11/15/2011 18:28	N
S11V005194	B2FB34	ICP/MS Tc-99	SW-846 3050B	07/19/2011 00:00	10/13/2011 10:45	10/21/2011 16:30	11/15/2011 18:32	N
S11V005458	B2FPF1	ICP/MS Tc-99	SW-846 3050B	07/21/2011 08:45	10/13/2011 10:45	10/21/2011 16:30	11/15/2011 17:34	N
S11V005474	B2FPF2	ICP/MS Tc-99	SW-846 3050B	07/21/2011 08:45	10/13/2011 10:45	10/21/2011 16:30	11/15/2011 17:43	N
S11V005863	B2FPR7	ICP/MS Tc-99	SW-846 3050B	10/25/2011 09:45	10/25/2011 12:00	11/15/2011 22:00	01/16/2012 11:13	N
S11V005877	B2FPR8	ICP/MS Tc-99	SW-846 3050B	10/25/2011 09:45	10/25/2011 12:00	11/15/2011 22:00	01/16/2012 11:22	N
S11V005896	B2FYM3	ICP/MS Tc-99	SW-846 3050B	10/26/2011 09:00	10/27/2011 11:03	11/15/2011 22:00	01/16/2012 11:27	N
S11V005915	B2FYM4	ICP/MS Tc-99	SW-846 3050B	10/26/2011 10:15	10/27/2011 11:10	11/15/2011 22:00	01/16/2012 11:31	N
S11V005934	B2FYM5	ICP/MS Tc-99	SW-846 3050B	10/26/2011 12:00	10/27/2011 11:30	11/15/2011 22:00	01/16/2012 11:36	N
S11V005953	B2FYM6	ICP/MS Tc-99	SW-846 3050B	11/03/2011 09:00	11/09/2011 12:55	11/15/2011 22:00	01/16/2012 11:50	N
S11V005972	B2FYM7	ICP/MS Tc-99	SW-846 3050B	11/04/2011 09:00	11/09/2011 01:00	11/15/2011 22:00	01/16/2012 11:54	N
S11V005991	B2FYM8	ICP/MS Tc-99	SW-846 3050B	11/07/2011 10:47	11/09/2011 01:00	11/15/2011 22:00	01/16/2012 11:59	N
S11V006010	B2FYM9	ICP/MS Tc-99	SW-846 3050B	11/08/2011 10:20	11/09/2011 01:00	11/15/2011 22:00	01/16/2012 12:03	N
S11V004725	B2B1L8 WE	ICP/MS Tc-99	Vadose Water Digest	05/25/2011 08:40	05/25/2011 10:20	07/19/2011 09:00	07/21/2011 17:45	N
S11V004742	B2B1L9 WE	ICP/MS Tc-99	Vadose Water Digest	05/25/2011 08:40	05/25/2011 10:20	07/19/2011 09:00	07/21/2011 17:49	N
S11V004782	B2D1X2 WE	ICP/MS Tc-99	Vadose Water Digest	05/31/2011 13:20	06/02/2011 08:53	07/19/2011 09:00	07/21/2011 17:36	N
S11V004821	B2D1X4 WE	ICP/MS Tc-99	Vadose Water Digest	06/01/2011 09:51	06/02/2011 10:45	07/19/2011 09:00	07/21/2011 17:54	N
S11V004839	B2D1X5 WE	ICP/MS Tc-99	Vadose Water Digest	06/03/2011 09:30	06/03/2011 10:40	07/19/2011 09:00	07/21/2011 17:58	N
S11V004857	B2D1X6 WE	ICP/MS Tc-99	Vadose Water Digest	06/09/2011 00:00	06/09/2011 13:12	07/19/2011 09:00	07/21/2011 18:21	N
S11V004906	B2D1X7 WE	ICP/MS Tc-99	Vadose Water Digest	06/14/2011 00:00	06/14/2011 07:54	07/19/2011 09:00	07/21/2011 18:25	N
S11V004924	B2D1X8 WE	ICP/MS Tc-99	Vadose Water Digest	06/14/2011 00:00	06/16/2011 07:48	07/19/2011 09:00	07/21/2011 18:30	N
S11V004942	B2D1X9 WE	ICP/MS Tc-99	Vadose Water Digest	06/20/2011 00:00	06/20/2011 11:18	07/19/2011 09:00	07/21/2011 18:35	N
S11V004960	B2D1Y0 WE	ICP/MS Tc-99	Vadose Water Digest	06/20/2011 00:00	06/20/2011 12:15	07/19/2011 09:00	07/21/2011 18:39	N
S11V006146	B2FPR7 WE	ICP/MS Tc-99	Vadose Water Digest	10/25/2011 09:45	10/25/2011 12:00	11/15/2011 15:00	01/16/2012 12:49	N
S11V006149	B2FPR8 WE	ICP/MS Tc-99	Vadose Water Digest	10/25/2011 09:45	10/25/2011 12:00	11/15/2011 15:00	01/16/2012 12:58	N
S11V006152	B2FYM3 WE	ICP/MS Tc-99	Vadose Water Digest	10/26/2011 09:00	10/27/2011 11:03	11/15/2011 15:00	01/16/2012 13:02	N
S11V006155	B2FYM4 WE	ICP/MS Tc-99	Vadose Water Digest	10/26/2011 10:15	10/27/2011 11:10	11/15/2011 15:00	01/16/2012 13:07	N

Holding Time Report: ICP/MS Tc-99

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	
S11V006158	B2FYM5 WE	ICP/MS Tc-99	Vadose Water Digest	10/26/2011 12:00	10/27/2011 11:30	11/15/2011 15:00	01/16/2012 13:11	N
S11V006161	B2FYM6 WE	ICP/MS Tc-99	Vadose Water Digest	11/03/2011 09:00	11/09/2011 12:55	11/15/2011 15:00	01/16/2012 13:16	N
S11V006164	B2FYM7 WE	ICP/MS Tc-99	Vadose Water Digest	11/04/2011 09:00	11/09/2011 13:09	11/15/2011 15:00	01/16/2012 13:21	N
S11V006167	B2FYM8 WE	ICP/MS Tc-99	Vadose Water Digest	11/07/2011 10:47	11/09/2011 01:00	11/15/2011 15:00	01/16/2012 13:25	N
S11V006170	B2FYM9 WE	ICP/MS Tc-99	Vadose Water Digest	11/08/2011 10:20	11/10/2011 13:11	11/15/2011 15:00	01/16/2012 13:30	N
S11V004716	B2B1N7	ICP/MS Tc-99	N/A	06/15/2011 10:00	06/15/2011 11:00	N/A	09/26/2011 12:08	N
S11V005010	B2B1N8	ICP/MS Tc-99	N/A	07/18/2011 09:00	07/18/2011 10:00	N/A	09/26/2011 12:17	N

Holding Time Report: Ni-63

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004736	B2B1L8	Nickel-63 by LSC	Acid Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	11/30/2011 10:00	12/01/2011 15:25	Y
S11V004753	B2B1L9	Nickel-63 by LSC	Acid Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	11/30/2011 10:00	12/01/2011 15:25	Y
S11V004718	B2B1N7	Nickel-63 by LSC	Separation	06/15/2011 10:00	06/15/2011 11:00	N/A	06/20/2011 14:35	N
S11V005012	B2B1N8	Nickel-63 by LSC	Separation	07/18/2011 09:00	07/18/2011 10:00	N/A	09/09/2011 13:45	N
S11V004793	B2D1X2	Nickel-63 by LSC	Acid Digest/Separation	05/31/2011 13:20	06/02/2011 08:53	11/30/2011 10:00	12/01/2011 15:25	Y
S11V004831	B2D1X4	Nickel-63 by LSC	Acid Digest/Separation	06/01/2011 09:51	06/02/2011 10:49	11/30/2011 10:00	12/01/2011 15:25	Y
S11V004849	B2D1X5	Nickel-63 by LSC	Acid Digest/Separation	06/03/2011 09:30	06/03/2011 10:40	11/30/2011 10:00	12/01/2011 15:25	Y
S11V004867	B2D1X6	Nickel-63 by LSC	Acid Digest/Separation	06/09/2011 00:00	06/09/2011 13:16	11/30/2011 10:00	12/01/2011 15:25	N
S11V004916	B2D1X7	Nickel-63 by LSC	Acid Digest/Separation	06/14/2011 00:00	06/14/2011 07:53	11/30/2011 10:00	12/01/2011 15:25	N
S11V004934	B2D1X8	Nickel-63 by LSC	Acid Digest/Separation	06/14/2011 00:00	06/14/2011 10:50	11/30/2011 10:00	12/01/2011 15:25	N
S11V004952	B2D1X9	Nickel-63 by LSC	Acid Digest/Separation	06/20/2011 00:00	06/20/2011 11:18	11/30/2011 10:00	12/01/2011 15:25	N
S11V004970	B2D1Y0	Nickel-63 by LSC	Acid Digest/Separation	06/20/2011 00:00	06/20/2011 12:15	11/30/2011 10:00	12/01/2011 15:25	N
S11V005068	B2FB27	Nickel-63 by LSC	Acid Digest/Separation	06/30/2011 10:42	10/13/2011 10:45	11/10/2011 21:02	11/16/2011 16:15	N
S11V005108	B2FB29	Nickel-63 by LSC	Acid Digest/Separation	06/30/2011 09:45	10/13/2011 10:45	11/10/2011 21:02	11/16/2011 16:15	N
S11V005126	B2FB30	Nickel-63 by LSC	Acid Digest/Separation	06/30/2011 10:30	10/13/2011 10:45	11/10/2011 21:02	11/16/2011 16:15	N
S11V005144	B2FB31	Nickel-63 by LSC	Acid Digest/Separation	07/12/2011 09:40	10/13/2011 10:45	11/10/2011 21:02	11/16/2011 16:15	N
S11V005162	B2FB32	Nickel-63 by LSC	Acid Digest/Separation	07/14/2011 00:00	10/13/2011 10:45	11/10/2011 21:02	11/16/2011 16:15	N
S11V005180	B2FB33	Nickel-63 by LSC	Acid Digest/Separation	07/15/2011 10:42	10/13/2011 10:45	11/10/2011 21:02	11/16/2011 16:15	N
S11V005198	B2FB34	Nickel-63 by LSC	Acid Digest/Separation	07/19/2011 00:00	10/13/2011 10:45	11/10/2011 21:02	11/16/2011 16:15	N
S11V005462	B2FPF1	Nickel-63 by LSC	Acid Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/10/2011 21:02	11/16/2011 16:15	N
S11V005478	B2FPF2	Nickel-63 by LSC	Acid Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/10/2011 21:02	11/16/2011 16:15	N
S11V005867	B2FPR7	Nickel-63 by LSC	Acid Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	12/02/2011 14:53	12/08/2011 15:15	N
S11V005881	B2FPR8	Nickel-63 by LSC	Acid Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	12/02/2011 14:53	12/08/2011 15:15	N
S11V005900	B2FYM3	Nickel-63 by LSC	Acid Digest/Separation	10/26/2011 09:00	10/27/2011 11:03	12/02/2011 14:53	12/08/2011 15:15	N
S11V005919	B2FYM4	Nickel-63 by LSC	Acid Digest/Separation	10/26/2011 10:15	10/27/2011 11:10	12/02/2011 14:53	12/08/2011 15:15	N
S11V005938	B2FYM5	Nickel-63 by LSC	Acid Digest/Separation	10/26/2011 12:00	10/27/2011 11:30	12/02/2011 14:53	12/08/2011 15:15	N
S11V005957	B2FYM6	Nickel-63 by LSC	Acid Digest/Separation	11/09/2011 00:00	11/09/2011 12:55	12/02/2011 14:53	12/08/2011 15:15	N
S11V005976	B2FYM7	Nickel-63 by LSC	Acid Digest/Separation	11/04/2011 09:00	11/09/2011 01:00	12/02/2011 14:53	12/08/2011 15:15	N
S11V005995	B2FYM8	Nickel-63 by LSC	Acid Digest/Separation	11/07/2011 10:47	11/09/2011 01:00	12/02/2011 14:53	12/08/2011 15:15	N
S11V006014	B2FYM9	Nickel-63 by LSC	Acid Digest/Separation	11/08/2011 10:20	11/09/2011 01:00	12/02/2011 14:53	12/08/2011 15:15	N

Holding Time Report: PCB

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date
S11V004726	B2B1L8	SW-846 8082A	SW-846 3540C	05/25/2011 08:40	05/25/2011 10:20	07/20/2011 13:50	09/14/2011 19:14
S11V004743	B2B1L9	SW-846 8082A	SW-846 3540C	05/25/2011 08:40	05/25/2011 10:20	07/20/2011 13:50	09/14/2011 21:34
S11V004715	B2B1N7	SW-846 8082A	SW-846 3520C	06/15/2011 10:00	06/15/2011 11:00	06/23/2011 09:02	07/19/2011 12:37
S11V005009	B2B1N8	SW-846 8082A	SW-846 3520C	07/18/2011 09:00	07/18/2011 10:00	09/19/2011 11:45	09/21/2011 14:59
S11V004783	B2D1X2	SW-846 8082A	SW-846 3540C	05/31/2011 13:20	06/02/2011 08:53	07/20/2011 13:50	09/14/2011 22:20
S11V004803	B2D1X4	SW-846 8082A	SW-846 3540C	06/01/2011 09:51	06/02/2011 10:45	07/20/2011 13:50	09/14/2011 23:07
S11V005058	B2FB27	SW-846 8082A	SW-846 3540C	06/30/2011 10:42	10/13/2011 10:45	10/20/2011 21:15	10/27/2011 17:21
S11V005098	B2FB29	SW-846 8082A	SW-846 3540C	06/30/2011 09:45	10/13/2011 10:45	10/20/2011 21:15	10/27/2011 18:08
S11V005116	B2FB30	SW-846 8082A	SW-846 3540C	06/30/2011 10:30	10/13/2011 10:45	10/20/2011 21:15	10/27/2011 15:00
S11V005452	B2FPF1	SW-846 8082A	SW-846 3540C	07/21/2011 08:45	10/13/2011 10:45	10/20/2011 21:15	10/27/2011 18:55
S11V005468	B2FPF2	SW-846 8082A	SW-846 3540C	07/21/2011 08:45	10/13/2011 10:45	10/20/2011 21:15	10/27/2011 19:41
S11V005859	B2FPR7	SW-846 8082A	SW-846 3540C	10/25/2011 09:45	10/25/2011 12:00	12/14/2011 11:06	12/19/2011 15:01
S11V005873	B2FPR8	SW-846 8082A	SW-846 3540C	10/25/2011 09:45	10/25/2011 12:00	12/14/2011 11:06	12/19/2011 21:15
S11V005892	B2FYM3	SW-846 8082A	SW-846 3540C	10/26/2011 09:00	10/27/2011 11:03	12/14/2011 11:06	12/19/2011 22:02
S11V005911	B2FYM4	SW-846 8082A	SW-846 3540C	10/26/2011 10:15	10/27/2011 11:10	12/14/2011 11:06	12/19/2011 22:48
S11V005930	B2FYM5	SW-846 8082A	SW-846 3540C	10/26/2011 12:00	10/27/2011 11:30	12/14/2011 11:06	12/19/2011 23:35
S11V005968	B2FYM7	SW-846 8082A	SW-846 3540C	11/04/2011 09:00	11/09/2011 01:00	12/14/2011 11:06	12/20/2011 00:22

Holding Time Report: pH

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Analysis Date	Missed Holding Time
S11V004719	B2B1N7	SW-846 9040C	N/A	06/15/2011 10:00	06/15/2011 11:00	06/15/2011 21:45	N
S11V005013	B2B1N8	SW-846 9040C	N/A	07/18/2011 09:00	07/18/2011 10:00	07/20/2011 16:35	Y
S11V004723	B2B1L8	SW-846 9045D	SW-846 9045D	05/25/2011 08:40	05/25/2011 10:20	05/27/2011 18:05	Y
S11V004739	B2B1L9	SW-846 9045D	SW-846 9045D	05/25/2011 08:40	05/25/2011 10:20	05/27/2011 18:05	Y
S11V004779	B2D1X2	SW-846 9045D	SW-846 9045D	05/31/2011 13:20	06/02/2011 11:09	06/02/2011 18:15	Y
S11V004819	B2D1X4	SW-846 9045D	SW-846 9045D	06/01/2011 09:51	06/02/2011 10:45	06/02/2011 18:15	Y
S11V004837	B2D1X5	SW-846 9045D	SW-846 9045D	06/03/2011 09:30	06/03/2011 10:40	06/07/2011 18:55	Y
S11V004855	B2D1X6	SW-846 9045D	SW-846 9045D	06/08/2011 09:20	06/08/2011 10:10	06/09/2011 18:20	Y
S11V004904	B2D1X7	SW-846 9045D	SW-846 9045D	06/14/2011 00:00	06/14/2011 07:53	06/14/2011 18:45	N
S11V004922	B2D1X8	SW-846 9045D	SW-846 9045D	06/14/2011 00:00	06/14/2011 10:50	06/16/2011 22:59	Y
S11V004940	B2D1X9	SW-846 9045D	SW-846 9045D	06/20/2011 00:00	06/20/2011 11:18	06/21/2011 13:54	Y
S11V004958	B2D1Y0	SW-846 9045D	SW-846 9045D	06/20/2011 00:00	06/20/2011 12:15	06/21/2011 13:54	Y
S11V005857	B2FPR7	SW-846 9045D	SW-846 9045D	10/25/2011 09:45	10/25/2011 12:00	10/26/2011 16:00	Y
S11V005871	B2FPR8	SW-846 9045D	SW-846 9045D	10/25/2011 09:45	10/25/2011 12:00	10/26/2011 16:00	Y
S11V005890	B2FYM3	SW-846 9045D	SW-846 9045D	10/26/2011 09:00	10/27/2011 11:03	10/28/2011 09:00	Y
S11V005909	B2FYM4	SW-846 9045D	SW-846 9045D	10/26/2011 10:15	10/27/2011 11:10	10/28/2011 09:00	Y
S11V005928	B2FYM5	SW-846 9045D	SW-846 9045D	10/26/2011 12:00	10/27/2011 11:30	10/28/2011 09:00	Y
S11V005947	B2FYM6	SW-846 9045D	SW-846 9045D	11/03/2011 09:00	11/09/2011 12:55	11/14/2011 08:40	Y
S11V005966	B2FYM7	SW-846 9045D	SW-846 9045D	11/04/2011 09:00	11/09/2011 01:00	11/14/2011 08:40	Y
S11V005985	B2FYM8	SW-846 9045D	SW-846 9045D	11/07/2011 10:47	11/09/2011 01:00	11/14/2011 08:40	Y
S11V006004	B2FYM9	SW-846 9045D	SW-846 9045D	11/08/2011 10:20	11/09/2011 01:00	11/14/2011 08:40	Y

Holding Time Report: Pu-238, 239/240

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004734	B2B1L8	AEA, Iso Plutonium	Acid Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	11/30/2011 09:45	12/05/2011 10:32	Y
S11V004751	B2B1L9	AEA, Iso Plutonium	Acid Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	09/29/2011 09:13	10/10/2011 14:37	N
S11V004718	B2B1N7	AEA, Iso Plutonium	Separation	06/15/2011 10:00	06/15/2011 11:00	N/A	11/28/2011 08:45	N
S11V005012	B2B1N8	AEA, Iso Plutonium	Separation	07/18/2011 09:00	07/18/2011 10:00	N/A	07/21/2011 14:19	N
S11V004791	B2D1X2	AEA, Iso Plutonium	Acid Digest/Separation	05/31/2011 13:20	06/02/2011 08:53	09/29/2011 09:13	10/10/2011 14:37	N
S11V004829	B2D1X4	AEA, Iso Plutonium	Acid Digest/Separation	06/01/2011 09:51	06/02/2011 10:49	09/29/2011 09:13	10/10/2011 14:37	N
S11V004847	B2D1X5	AEA, Iso Plutonium	Acid Digest/Separation	06/03/2011 09:30	06/03/2011 10:40	09/29/2011 09:13	10/10/2011 14:37	N
S11V004865	B2D1X6	AEA, Iso Plutonium	Acid Digest/Separation	06/09/2011 00:00	06/09/2011 13:16	09/29/2011 09:13	10/10/2011 14:37	N
S11V004914	B2D1X7	AEA, Iso Plutonium	Acid Digest/Separation	06/14/2011 00:00	06/14/2011 07:53	09/29/2011 09:13	10/10/2011 14:37	N
S11V004932	B2D1X8	AEA, Iso Plutonium	Acid Digest/Separation	06/14/2011 00:00	06/14/2011 10:50	09/29/2011 09:13	10/10/2011 14:37	N
S11V004950	B2D1X9	AEA, Iso Plutonium	Acid Digest/Separation	06/20/2011 00:00	06/20/2011 11:18	11/30/2011 09:45	12/05/2011 10:32	N
S11V004968	B2D1Y0	AEA, Iso Plutonium	Acid Digest/Separation	06/20/2011 00:00	06/20/2011 12:15	09/29/2011 09:13	10/10/2011 14:37	N
S11V005066	B2FB27	AEA, Iso Plutonium	Acid Digest/Separation	06/30/2011 10:42	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 19:07	N
S11V005106	B2FB29	AEA, Iso Plutonium	Acid Digest/Separation	06/30/2011 09:45	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 19:07	N
S11V005124	B2FB30	AEA, Iso Plutonium	Acid Digest/Separation	06/30/2011 10:30	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 19:07	N
S11V005142	B2FB31	AEA, Iso Plutonium	Acid Digest/Separation	07/12/2011 09:40	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 19:07	N
S11V005160	B2FB32	AEA, Iso Plutonium	Acid Digest/Separation	07/14/2011 00:00	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 19:07	N
S11V005178	B2FB33	AEA, Iso Plutonium	Acid Digest/Separation	07/15/2011 10:42	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 19:07	N
S11V005196	B2FB34	AEA, Iso Plutonium	Acid Digest/Separation	07/19/2011 00:00	10/13/2011 10:45	11/10/2011 18:51	11/16/2011 19:07	N
S11V005460	B2FPF1	AEA, Iso Plutonium	Acid Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/30/2011 09:45	12/05/2011 10:32	N
S11V005476	B2FPF2	AEA, Iso Plutonium	Acid Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/30/2011 09:45	12/05/2011 10:32	N
S11V005865	B2FPR7	AEA, Iso Plutonium	Acid Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	12/02/2011 10:32	12/08/2011 09:55	N
S11V005879	B2FPR8	AEA, Iso Plutonium	Acid Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	12/02/2011 10:32	12/08/2011 09:55	N
S11V005898	B2FYM3	AEA, Iso Plutonium	Acid Digest/Separation	10/26/2011 09:00	10/27/2011 11:03	12/02/2011 10:32	12/08/2011 09:55	N
S11V005917	B2FYM4	AEA, Iso Plutonium	Acid Digest/Separation	10/26/2011 10:15	10/27/2011 11:10	12/02/2011 10:32	12/08/2011 09:55	N
S11V005936	B2FYM5	AEA, Iso Plutonium	Acid Digest/Separation	10/26/2011 12:00	10/27/2011 11:30	12/02/2011 10:32	12/08/2011 09:55	N
S11V005955	B2FYM6	AEA, Iso Plutonium	Acid Digest/Separation	11/03/2011 09:00	11/09/2011 12:55	12/02/2011 10:32	12/08/2011 09:56	N
S11V005974	B2FYM7	AEA, Iso Plutonium	Acid Digest/Separation	11/04/2011 09:00	11/09/2011 01:00	12/02/2011 10:32	12/08/2011 09:56	N
S11V005993	B2FYM8	AEA, Iso Plutonium	Acid Digest/Separation	11/07/2011 10:47	11/09/2011 01:00	12/02/2011 10:32	12/08/2011 09:56	N
S11V006012	B2FYM9	AEA, Iso Plutonium	Acid Digest/Separation	11/08/2011 10:20	11/09/2011 01:00	12/02/2011 10:32	12/08/2011 09:56	N

Holding Time Report: Se-79

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004737	B2B1L8	Se-79 by LSC	Acid Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	09/28/2011 13:50	10/17/2011 14:50	N
S11V004754	B2B1L9	Se-79 by LSC	Acid Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	09/28/2011 13:50	10/17/2011 14:50	N
S11V004718	B2B1N7	Se-79 by LSC	Separation	06/15/2011 10:00	06/15/2011 11:00	N/A	06/22/2011 12:00	N
S11V005012	B2B1N8	Se-79 by LSC	Separation	07/18/2011 09:00	07/18/2011 10:00	N/A	09/09/2011 16:35	N
S11V004794	B2D1X2	Se-79 by LSC	Acid Digest/Separation	05/31/2011 13:20	06/02/2011 08:53	09/28/2011 13:50	10/17/2011 14:50	N
S11V004832	B2D1X4	Se-79 by LSC	Acid Digest/Separation	06/01/2011 09:51	06/02/2011 10:49	09/28/2011 13:50	10/17/2011 14:50	N
S11V004850	B2D1X5	Se-79 by LSC	Acid Digest/Separation	06/03/2011 09:30	06/03/2011 13:04	09/28/2011 13:50	10/17/2011 14:50	N
S11V004868	B2D1X6	Se-79 by LSC	Acid Digest/Separation	06/09/2011 00:00	06/15/2011 09:53	09/28/2011 13:50	10/17/2011 14:50	N
S11V004917	B2D1X7	Se-79 by LSC	Acid Digest/Separation	06/14/2011 00:00	06/14/2011 07:53	09/28/2011 13:50	10/17/2011 14:50	N
S11V004935	B2D1X8	Se-79 by LSC	Acid Digest/Separation	06/14/2011 00:00	06/14/2011 10:50	09/28/2011 13:50	10/17/2011 14:50	N
S11V004953	B2D1X9	Se-79 by LSC	Acid Digest/Separation	06/20/2011 00:00	06/20/2011 11:18	09/28/2011 13:50	10/17/2011 14:50	N
S11V004971	B2D1Y0	Se-79 by LSC	Acid Digest/Separation	06/20/2011 00:00	06/20/2011 12:15	09/28/2011 13:50	10/17/2011 14:50	N
S11V005069	B2FB27	Se-79 by LSC	Acid Digest/Separation	06/30/2011 10:42	10/13/2011 10:45	11/10/2011 22:45	11/22/2011 15:45	N
S11V005109	B2FB29	Se-79 by LSC	Acid Digest/Separation	06/30/2011 09:45	10/13/2011 10:45	11/10/2011 22:45	11/22/2011 15:45	N
S11V005127	B2FB30	Se-79 by LSC	Acid Digest/Separation	06/30/2011 10:30	10/13/2011 10:45	11/10/2011 22:45	11/22/2011 15:45	N
S11V005145	B2FB31	Se-79 by LSC	Acid Digest/Separation	07/12/2011 09:40	10/13/2011 10:45	11/10/2011 22:45	11/22/2011 15:45	N
S11V005163	B2FB32	Se-79 by LSC	Acid Digest/Separation	07/14/2011 00:00	10/13/2011 10:45	11/10/2011 22:45	11/22/2011 15:45	N
S11V005181	B2FB33	Se-79 by LSC	Acid Digest/Separation	07/15/2011 10:42	10/13/2011 10:45	11/10/2011 22:45	11/22/2011 15:45	N
S11V005199	B2FB34	Se-79 by LSC	Acid Digest/Separation	07/19/2011 00:00	10/13/2011 10:45	11/10/2011 22:45	11/22/2011 15:45	N
S11V005463	B2FPF1	Se-79 by LSC	Acid Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/10/2011 22:45	11/22/2011 15:45	N
S11V005479	B2FPF2	Se-79 by LSC	Acid Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/10/2011 22:45	11/22/2011 15:45	N
S11V005868	B2FPR7	Se-79 by LSC	Acid Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	11/29/2011 15:32	12/02/2011 09:30	N
S11V005882	B2FPR8	Se-79 by LSC	Acid Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	11/29/2011 15:32	12/02/2011 09:30	N
S11V005901	B2FYM3	Se-79 by LSC	Acid Digest/Separation	10/26/2011 09:00	10/27/2011 11:03	11/29/2011 15:32	12/02/2011 09:30	N
S11V005920	B2FYM4	Se-79 by LSC	Acid Digest/Separation	10/26/2011 10:15	10/27/2011 11:10	11/29/2011 15:32	12/02/2011 09:30	N
S11V005939	B2FYM5	Se-79 by LSC	Acid Digest/Separation	10/26/2011 12:00	10/27/2011 11:30	11/29/2011 15:32	12/02/2011 09:30	N
S11V005958	B2FYM6	Se-79 by LSC	Acid Digest/Separation	11/03/2011 09:00	11/09/2011 12:55	11/29/2011 15:32	12/02/2011 09:30	N
S11V005977	B2FYM7	Se-79 by LSC	Acid Digest/Separation	11/04/2011 09:00	11/09/2011 01:00	11/29/2011 15:32	12/02/2011 09:30	N
S11V005996	B2FYM8	Se-79 by LSC	Acid Digest/Separation	11/07/2011 10:47	11/09/2011 01:00	11/29/2011 15:32	12/02/2011 09:30	N
S11V006015	B2FYM9	Se-79 by LSC	Acid Digest/Separation	11/08/2011 10:20	11/09/2011 01:00	11/29/2011 15:32	12/02/2011 09:30	N

Holding Time Report: Sr-89/89

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004718	B2B1N7	Sr-89/90 by GPC	Separation	06/15/2011 10:00	06/15/2011 11:00	N/A	06/16/2011 15:00	N
S11V005012	B2B1N8	Sr-89/90 by GPC	Separation	07/18/2011 09:00	07/18/2011 10:00	N/A	07/20/2011 13:45	N
S11V004735	B2B1L8	Sr-89/90 by GPC	Acid Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	10/04/2011 10:49	10/07/2011 14:55	N
S11V004752	B2B1L9	Sr-89/90 by GPC	Acid Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	10/04/2011 10:49	10/07/2011 14:55	N
S11V004792	B2D1X2	Sr-89/90 by GPC	Acid Digest/Separation	05/31/2011 13:20	06/02/2011 08:53	10/04/2011 10:49	10/07/2011 14:55	N
S11V004830	B2D1X4	Sr-89/90 by GPC	Acid Digest/Separation	06/01/2011 09:51	06/02/2011 10:49	10/04/2011 00:00	10/07/2011 14:55	N
S11V004848	B2D1X5	Sr-89/90 by GPC	Acid Digest/Separation	06/03/2011 09:30	06/03/2011 10:40	10/04/2011 10:49	10/07/2011 14:55	N
S11V004866	B2D1X6	Sr-89/90 by GPC	Acid Digest/Separation	06/09/2011 00:00	06/09/2011 13:16	10/04/2011 10:49	10/07/2011 14:55	N
S11V004915	B2D1X7	Sr-89/90 by GPC	Acid Digest/Separation	06/14/2011 00:00	06/14/2011 07:53	10/04/2011 10:49	10/07/2011 14:55	N
S11V004933	B2D1X8	Sr-89/90 by GPC	Acid Digest/Separation	06/14/2011 00:00	06/14/2011 10:50	10/04/2011 10:50	10/07/2011 14:55	N
S11V004951	B2D1X9	Sr-89/90 by GPC	Acid Digest/Separation	06/20/2011 00:00	06/20/2011 11:18	10/04/2011 00:00	10/07/2011 14:55	N
S11V004969	B2D1Y0	Sr-89/90 by GPC	Acid Digest/Separation	06/20/2011 00:00	06/20/2011 12:15	10/04/2011 00:00	10/07/2011 14:55	N
S11V005067	B2FB27	Sr-89/90 by GPC	Acid Digest/Separation	06/30/2011 10:42	10/13/2011 10:45	11/10/2011 22:06	11/22/2011 09:20	N
S11V005107	B2FB29	Sr-89/90 by GPC	Acid Digest/Separation	06/30/2011 09:45	10/13/2011 10:45	11/10/2011 22:06	11/22/2011 09:20	N
S11V005125	B2FB30	Sr-89/90 by GPC	Acid Digest/Separation	06/30/2011 10:30	10/13/2011 10:45	11/10/2011 22:06	11/22/2011 09:20	N
S11V005143	B2FB31	Sr-89/90 by GPC	Acid Digest/Separation	07/12/2011 09:40	10/13/2011 10:45	11/10/2011 22:06	11/22/2011 09:20	N
S11V005161	B2FB32	Sr-89/90 by GPC	Acid Digest/Separation	07/14/2011 00:00	10/13/2011 10:45	11/10/2011 22:06	11/22/2011 09:20	N
S11V005179	B2FB33	Sr-89/90 by GPC	Acid Digest/Separation	07/15/2011 10:42	10/13/2011 10:45	11/10/2011 22:06	11/22/2011 09:20	N
S11V005197	B2FB34	Sr-89/90 by GPC	Acid Digest/Separation	07/19/2011 00:00	10/13/2011 10:45	11/10/2011 22:06	11/22/2011 09:20	N
S11V005461	B2FPF1	Sr-89/90 by GPC	Acid Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/10/2011 22:06	11/22/2011 09:20	N
S11V005477	B2FPF2	Sr-89/90 by GPC	Acid Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/10/2011 22:06	11/22/2011 09:20	N
S11V005866	B2FPR7	Sr-89/90 by GPC	Acid Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	11/30/2011 11:50	12/01/2011 14:00	N
S11V005880	B2FPR8	Sr-89/90 by GPC	Acid Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	11/30/2011 11:50	12/01/2011 14:00	N
S11V005899	B2FYM3	Sr-89/90 by GPC	Acid Digest/Separation	10/26/2011 09:00	10/27/2011 11:03	11/30/2011 11:50	12/01/2011 14:00	N
S11V005918	B2FYM4	Sr-89/90 by GPC	Acid Digest/Separation	10/26/2011 10:15	10/27/2011 11:10	11/30/2011 11:50	12/01/2011 14:00	N
S11V005937	B2FYM5	Sr-89/90 by GPC	Acid Digest/Separation	10/26/2011 12:00	10/27/2011 11:30	11/30/2011 11:50	12/01/2011 14:00	N
S11V005956	B2FYM6	Sr-89/90 by GPC	Acid Digest/Separation	11/03/2011 09:00	11/09/2011 12:55	11/30/2011 11:50	12/01/2011 14:00	N
S11V005975	B2FYM7	Sr-89/90 by GPC	Acid Digest/Separation	11/04/2011 09:00	11/09/2011 01:00	11/30/2011 11:50	12/01/2011 14:00	N
S11V005994	B2FYM8	Sr-89/90 by GPC	Acid Digest/Separation	11/07/2011 10:47	11/09/2011 01:00	11/30/2011 11:50	12/01/2011 14:00	N
S11V006013	B2FYM9	Sr-89/90 by GPC	Acid Digest/Separation	11/08/2011 10:20	11/09/2011 01:00	11/30/2011 11:50	12/01/2011 14:00	N

Holding Time Report: SVOA

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004728	B2B1L8	SW-846 8270D	SW-846 3540C	05/25/2011 08:40	05/25/2011 10:20	06/06/2011 14:37	06/09/2011 19:34	N
S11V004745	B2B1L9	SW-846 8270D	SW-846 3540C	05/25/2011 08:40	05/25/2011 10:20	06/06/2011 14:37	06/09/2011 20:21	N
S11V004715	B2B1N7	SW-846 8270D	SW-846 3520C	06/15/2011 10:00	06/15/2011 11:00	06/20/2011 14:16	06/23/2011 13:09	N
S11V005009	B2B1N8	SW-846 8270D	SW-846 3520C	07/18/2011 09:00	07/18/2011 10:00	07/19/2011 14:10	09/20/2011 15:39	N
S11V004785	B2D1X2	SW-846 8270D	SW-846 3540C	05/31/2011 13:20	06/02/2011 08:53	06/06/2011 14:37	06/09/2011 17:15	N
S11V004823	B2D1X4	SW-846 8270D	SW-846 3540C	06/01/2011 09:51	06/02/2011 10:45	06/06/2011 14:37	06/09/2011 21:08	N
S11V004859	B2D1X6	SW-846 8270D	SW-846 3540C	06/09/2011 00:00	06/09/2011 13:13	06/16/2011 14:30	06/20/2011 13:43	N
S11V004908	B2D1X7	SW-846 8270D	SW-846 3540C	06/14/2011 00:00	06/14/2011 07:53	06/16/2011 14:30	06/20/2011 16:05	N
S11V004926	B2D1X8	SW-846 8270D	SW-846 3540C	06/14/2011 00:00	06/14/2011 10:50	06/20/2011 15:35	06/22/2011 18:54	N
S11V004944	B2D1X9	SW-846 8270D	SW-846 3540C	06/20/2011 00:00	06/20/2011 11:18	06/20/2011 15:35	06/22/2011 16:39	N
S11V004962	B2D1Y0	SW-846 8270D	SW-846 3540C	06/20/2011 00:00	06/20/2011 12:15	06/20/2011 15:35	06/22/2011 19:40	N
S11V006144	B2FPR7	SW-846 8270D	SW-846 3540C	10/25/2011 09:45	10/25/2011 12:00	11/03/2011 22:00	11/10/2011 18:01	N
S11V006147	B2FPR8	SW-846 8270D	SW-846 3540C	10/25/2011 09:45	10/25/2011 12:00	11/03/2011 22:00	11/10/2011 20:08	N
S11V006150	B2FYM3	SW-846 8270D	SW-846 3540C	10/26/2011 09:00	10/27/2011 11:03	11/10/2011 14:57	11/22/2011 15:36	N
S11V006153	B2FYM4	SW-846 8270D	SW-846 3540C	10/26/2011 10:15	10/27/2011 11:10	11/03/2011 22:00	11/10/2011 20:50	N
S11V006156	B2FYM5	SW-846 8270D	SW-846 3540C	10/26/2011 12:00	10/27/2011 11:30	11/03/2011 22:00	11/10/2011 21:33	N
S11V006159	B2FYM6	SW-846 8270D	SW-846 3540C	11/03/2011 09:00	11/09/2011 12:55	11/10/2011 14:57	11/22/2011 13:29	N
S11V006162	B2FYM7	SW-846 8270D	SW-846 3540C	11/04/2011 09:00	11/09/2011 01:00	11/10/2011 14:57	11/22/2011 16:19	N
S11V006165	B2FYM8	SW-846 8270D	SW-846 3540C	11/07/2011 10:47	11/09/2011 01:00	11/10/2011 14:57	11/22/2011 17:01	N
S11V006168	B2FYM9	SW-846 8270D	SW-846 3540C	11/08/2011 10:20	11/09/2011 13:10	11/21/2011 14:05	11/28/2011 15:36	N

Holding Time Report: Tritium

Sample	Customer Sample Id	Method	Prep Method	Sample Date Time	Received Date	Preparation Date	Analysis Date	Missed Holding Time
S11V004733	B2B1L8	Tritium by LSC	Water Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	10/06/2011 00:00	10/11/2011 16:00	N
S11V004750	B2B1L9	Tritium by LSC	Water Digest/Separation	05/25/2011 08:40	05/25/2011 10:20	10/06/2011 00:00	10/11/2011 16:00	N
S11V004717	B2B1N7	Tritium by LSC	Separation	06/15/2011 10:00	06/15/2011 11:00	N/A	06/15/2011 17:40	N
S11V005011	B2B1N8	Tritium by LSC	Separation	07/18/2011 09:00	07/18/2011 10:00	N/A	09/08/2011 18:15	N
S11V004790	B2D1X2	Tritium by LSC	Water Digest/Separation	05/31/2011 13:20	06/02/2011 08:53	10/06/2011 00:00	10/11/2011 16:00	N
S11V004828	B2D1X4	Tritium by LSC	Water Digest/Separation	06/01/2011 09:51	06/02/2011 10:49	10/06/2011 00:00	10/11/2011 16:00	N
S11V004846	B2D1X5	Tritium by LSC	Water Digest/Separation	06/03/2011 09:30	06/03/2011 10:40	10/06/2011 00:00	10/11/2011 16:00	N
S11V004864	B2D1X6	Tritium by LSC	Water Digest/Separation	06/09/2011 00:00	06/15/2011 09:38	10/06/2011 00:00	10/11/2011 16:00	N
S11V004913	B2D1X7	Tritium by LSC	Water Digest/Separation	06/14/2011 00:00	06/14/2011 07:53	10/06/2011 00:00	10/11/2011 16:00	N
S11V004931	B2D1X8	Tritium by LSC	Water Digest/Separation	06/14/2011 00:00	06/14/2011 10:50	10/06/2011 00:00	10/11/2011 16:00	N
S11V004949	B2D1X9	Tritium by LSC	Water Digest/Separation	06/20/2011 00:00	06/20/2011 11:18	10/06/2011 00:00	10/11/2011 16:00	N
S11V004967	B2D1Y0	Tritium by LSC	Water Digest/Separation	06/20/2011 00:00	06/20/2011 12:15	10/06/2011 00:00	10/11/2011 16:00	N
S11V005065	B2FB27	Tritium by LSC	Water Digest/Separation	06/30/2011 10:42	10/13/2011 10:45	11/18/2011 10:03	11/22/2011 11:15	N
S11V005105	B2FB29	Tritium by LSC	Water Digest/Separation	06/30/2011 09:45	10/13/2011 10:45	11/18/2011 10:03	11/22/2011 11:15	N
S11V005123	B2FB30	Tritium by LSC	Water Digest/Separation	06/30/2011 10:30	10/13/2011 10:45	11/18/2011 10:03	11/22/2011 11:15	N
S11V005141	B2FB31	Tritium by LSC	Water Digest/Separation	07/12/2011 09:40	10/13/2011 10:45	11/18/2011 10:03	11/22/2011 11:15	N
S11V005159	B2FB32	Tritium by LSC	Water Digest/Separation	07/14/2011 00:00	10/13/2011 10:45	11/18/2011 10:03	11/22/2011 11:15	N
S11V005177	B2FB33	Tritium by LSC	Water Digest/Separation	07/15/2011 10:42	10/13/2011 10:45	11/18/2011 10:03	11/22/2011 11:15	N
S11V005195	B2FB34	Tritium by LSC	Water Digest/Separation	07/19/2011 00:00	10/13/2011 10:45	11/18/2011 10:03	12/01/2011 16:15	N
S11V005459	B2FPF1	Tritium by LSC	Water Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/18/2011 10:03	11/22/2011 11:15	N
S11V005475	B2FPF2	Tritium by LSC	Water Digest/Separation	07/21/2011 08:45	10/13/2011 10:45	11/18/2011 10:03	11/22/2011 11:15	N
S11V005864	B2FPR7	Tritium by LSC	Water Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	12/13/2011 15:10	12/14/2011 14:00	N
S11V005878	B2FPR8	Tritium by LSC	Water Digest/Separation	10/25/2011 09:45	10/25/2011 12:00	12/13/2011 15:10	12/14/2011 14:00	N
S11V005897	B2FYM3	Tritium by LSC	Water Digest/Separation	10/26/2011 09:00	10/27/2011 11:03	12/13/2011 15:10	12/14/2011 14:00	N
S11V005916	B2FYM4	Tritium by LSC	Water Digest/Separation	10/26/2011 10:14	10/27/2011 11:10	12/13/2011 15:10	12/14/2011 14:00	N
S11V005935	B2FYM5	Tritium by LSC	Water Digest/Separation	10/26/2011 12:00	10/27/2011 11:30	12/13/2011 15:10	12/14/2011 14:00	N
S11V005954	B2FYM6	Tritium by LSC	Water Digest/Separation	11/03/2011 09:00	11/09/2011 12:55	12/13/2011 15:10	12/14/2011 14:00	N
S11V005973	B2FYM7	Tritium by LSC	Water Digest/Separation	11/04/2011 09:00	11/09/2011 01:00	12/13/2011 15:10	12/14/2011 14:00	N
S11V005992	B2FYM8	Tritium by LSC	Water Digest/Separation	11/07/2011 10:47	11/09/2011 01:00	12/13/2011 15:10	12/14/2011 14:00	N
S11V006011	B2FYM9	Tritium by LSC	Water Digest/Separation	11/08/2011 10:20	11/09/2011 01:00	12/13/2011 15:10	12/14/2011 14:00	N

Attachment 4

ADDITIONAL QC RESULTS

RPP-RPT-51759 Rev.0

HG Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm 2011-C8102

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2B1L8	S11V004723	Mercury	103	101	75	125	2.33	20
B2D1X8	S11V004922	Mercury	91.1	96.2	75	125	5.42	20

PCB 222S Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm 2011-C8102

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2B1L8	S11V004726	Aroclor-1254	92.6	88.4	75	125	4.67	30
B2B1N7	S11V004715	Aroclor-1254	81.5	91.2	51	128	11.3	30

SVOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm 2011-C8102

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2B1N7	S11V004715	1,2,4-Trichlorobenzene	19.4	24.9	24	79	24.8	30
		1,2-Dichlorobenzene	15.2	17.3	70	130	12.8	30
		2,4,5-Trichlorophenol	65.5	68.4	70	130	4.37	30
		2,4,6-Trichlorophenol	65.6	68.4	70	130	4.23	30
		2,4-Dinitrotoluene	65.0	73.5	55	105	12.3	30
		2,6 bis-4Methylphenol	42.7	55.7	70	130	26.3	30
		2-Chlorophenol	69.9	70.8	40	106	1.30	30
		2-Ethoxyethanol	67.2	68.2	70	130	1.52	30
		2-Methylphenol	70.5	70.0	70	130	0.611	30
		2-Nitrophenol	63.3	61.2	70	130	3.39	30
		3 & 4 Methylphenol Total	72.1	71.1	70	130	1.37	30
		4-Chloro-3-methylphenol	74.0	72.1	50	97	2.60	30
		Acenaphthene	51.7	63.8	34	106	21.1	30
		Benzo(a)anthracene	61.1	75.1	70	130	20.5	30
		Benzo(a)pyrene	59.6	74.4	70	130	22.1	30
		Benzo(b)fluoranthene	62.0	76.7	70	130	21.2	30
		Benzo(k)fluoranthene	63.7	79.5	70	130	22.0	30
		Butylbenzylphthalate	60.9	77.0	70	130	23.4	30
		Chrysene	59.7	74.6	70	130	22.1	30
		Cyclohexanone	63.8	63.8	70	130	0.0548	30
		Di-n-butylphthalate	64.1	76.9	70	130	18.2	30
		Di-n-octylphthalate	50.0	66.1	70	130	27.6	30
		Dibenz(a,h)anthracene	61.0	75.6	70	130	21.3	30
		Fluoranthene	59.2	70.9	70	130	18.0	30
		Hexachlorobutadiene	9.87	18.9	70	130	62.6	30
		Hexachloroethane	5.30	8.32	70	130	44.4	30
		Indeno(1,2,3-cd)pyrene	59.0	72.9	70	130	21.1	30
		N-Nitrosodipropylamine	71.3	68.8	44	99	3.61	30
		N-Nitrosomorpholine	81.5	78.3	70	130	3.99	30
		Naphthalene	32.7	34.0	70	130	3.88	30
		Nitrobenzene	69.0	67.0	70	130	3.00	30
		Pyrene	65.6	82.7	65	111	23.1	30
		Pyridine	69.4	67.6	70	130	2.63	30
		bis(2-Ethylhexyl)phthalate	54.0	70.6	70	130	26.6	30
B2D1X2	S11V004785	1,2,4-Trichlorobenzene	70.0	69.0	46	94	1.47	30
		1,2-Dichlorobenzene	64.1	60.3	70	130	6.21	30
		1,4-Dichlorobenzene			41	97		30
		2,4,5-Trichlorophenol	85.9	82.8	70	130	3.59	30
		2,4,6-Trichlorophenol	81.5	78.0	70	130	4.48	30
		2,4-Dinitrotoluene	88.5	85.0	60	99	4.03	30
		2,6 bis-4Methylphenol	19.5	25.4			26.5	30
		2-Chlorophenol	70.2	68.3	48	93	2.76	30
		2-Ethoxyethanol	67.1	63.9			4.79	30

SVOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm 2011-C8102

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2D1X2	S11V004785	2-Methylphenol	66.1	66.4	70	130	0.542	30
		2-Nitrophenol	67.5	66.1	70	130	2.07	30
		3 & 4 Methylphenol Total	69.8	68.8	70	130	1.56	30
		4-Chloro-3-methylphenol	81.5	78.1	52	94	4.33	30
		4-Nitrophenol			54	110		30
		Acenaphthene	83.5	79.2	49	102	5.22	30
		Benzo(a)anthracene	95.1	95.2	70	130	6.31E-03	30
		Benzo(a)pyrene	95.0	92.5	70	130	2.66	30
		Benzo(b)fluoranthene	97.1	94.8	70	130	2.33	30
		Benzo(k)fluoranthene	102	99.5	70	130	2.65	30
		Butylbenzylphthalate	105	101	70	130	4.34	30
		Chrysene	95.5	93.5	70	130	2.12	30
		Cyclohexanone	59.0	55.7			5.73	30
		Di-n-butylphthalate	105	98.9	70	130	5.65	30
		Di-n-octylphthalate	91.3	87.6	70	130	4.13	30
		Dibenz(a,h)anthracene	101	95.2	70	130	6.01	30
		Fluoranthene	94.1	89.8	70	130	4.71	30
		Hexachlorobutadiene	69.7	67.9	70	130	2.61	30
		Hexachloroethane	48.2	46.0	70	130	4.80	30
		Indeno(1,2,3-cd)pyrene	98.5	93.0	70	130	5.74	30
		N-Nitrosodipropylamine	67.6	67.2	43	89	0.632	30
		N-Nitrosomorpholine	76.5	74.4			2.75	30
		Naphthalene	71.4	69.6	70	130	2.56	30
		Nitrobenzene	71.1	69.1	70	130	2.88	30
		Pentachlorophenol			46	115		30
		Phenol			47	96		30
		Pyrene	103	99.9	63	106	2.58	30
		Pyridine	54.2	59.4	70	130	9.13	30
		Tri-n-butylphosphate			70	130		30
		bis(2-Ethylhexyl)phthalate	101	96.2	70	130	5.22	30
B2D1X6	S11V004859	1,2,4-Trichlorobenzene	70.6	73.1	46	94	3.43	30
		1,2-Dichlorobenzene	70.2	71.4	70	130	1.79	30
		2,4,5-Trichlorophenol	84.4	88.7	70	130	4.93	30
		2,4,6-Trichlorophenol	79.0	83.4	70	130	5.41	30
		2,4-Dinitrotoluene	91.9	93.3	60	99	1.52	30
		2,6 bis-4Methylphenol	64.7	65.2			0.801	30
		2-Chlorophenol	72.5	73.8	48	93	1.74	30
		2-Ethoxyethanol	73.1	73.6			0.653	30
		2-Methylphenol	69.4	71.4	70	130	2.96	30
		2-Nitrophenol	69.3	73.8	70	130	6.29	30
		3 & 4 Methylphenol Total	70.9	73.5	70	130	3.49	30
		4-Chloro-3-methylphenol	76.8	80.3	52	94	4.45	30
		Acenaphthene	82.1	84.2	49	102	2.53	30

SVOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm 2011-C8102

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2D1X6	S11V004859	Benzo(a)anthracene	93.9	94.3	70	130	0.420	30
		Benzo(a)pyrene	94.7	94.9	70	130	0.138	30
		Benzo(b)fluoranthene	93.1	93.2	70	130	0.0590	30
		Benzo(k)fluoranthene	99.9	101	70	130	1.14	30
		Butylbenzylphthalate	101	101	70	130	0.228	30
		Chrysene	93.7	93.9	70	130	0.166	30
		Cyclohexanone	62.5	63.9			2.28	30
		Di-n-butylphthalate	98.5	101	70	130	1.99	30
		Di-n-octylphthalate	88.2	87.7	70	130	0.594	30
		Dibenz(a,h)anthracene	98.9	101	70	130	2.00	30
		Fluoranthene	90.4	91.5	70	130	1.18	30
		Hexachlorobutadiene	72.2	73.7	70	130	1.97	30
		Hexachloroethane	54.7	56.1	70	130	2.45	30
		Indeno(1,2,3-cd)pyrene	96.8	98.7	70	130	1.94	30
		N-Nitrosodipropylamine	69.4	71.1	43	89	2.51	30
		N-Nitrosomorpholine	76.4	79.3			3.70	30
		Naphthalene	72.1	74.8	70	130	3.58	30
		Nitrobenzene	71.8	75.1	70	130	4.50	30
		Pyrene	100	99.6	63	106	0.576	30
		Pyridine	66.5	68.3	70	130	2.66	30
		bis(2-Ethylhexyl)phthalate	98.6	98.5	70	130	0.131	30
B2D1X9	S11V004944	1,2,4-Trichlorobenzene	68.1	74.5	46	94	8.91	30
		1,2-Dichlorobenzene	62.9	68.1	70	130	7.94	30
		2,4,5-Trichlorophenol	81.1	86.7	70	130	6.71	30
		2,4,6-Trichlorophenol	77.4	85.0	70	130	9.33	30
		2,4-Dinitrotoluene	84.5	88.9	60	99	5.05	30
		2,6 bis-4Methylphenol	64.1	69.5			8.13	30
		2-Chlorophenol	68.7	74.7	48	93	8.37	30
		2-Ethoxyethanol	68.6	69.5			1.29	30
		2-Methylphenol	66.3	72.1	70	130	8.34	30
		2-Nitrophenol	68.0	73.5	70	130	7.80	30
		3 & 4 Methylphenol Total	68.7	73.8	70	130	7.15	30
		4-Chloro-3-methylphenol	73.9	82.0	52	94	10.4	30
		Acenaphthene	80.4	86.5	49	102	7.27	30
		Benzo(a)anthracene	86.4	94.4	70	130	8.84	30
		Benzo(a)pyrene	87.4	93.2	70	130	6.50	30
		Benzo(b)fluoranthene	88.0	93.5	70	130	6.05	30
		Benzo(k)fluoranthene	92.3	98.2	70	130	6.24	30
		Butylbenzylphthalate	91.5	102	70	130	11.3	30
		Chrysene	86.6	92.3	70	130	6.43	30
		Cyclohexanone	57.8	63.4			9.22	30
		Di-n-butylphthalate	90.8	99.9	70	130	9.51	30
		Di-n-octylphthalate	84.6	89.3	70	130	5.40	30

SVOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm 2011-C8102

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2D1X9	S11V004944	Dibenz(a,h)anthracene	89.1	102	70	130	13.0	30
		Fluoranthene	83.8	89.4	70	130	6.52	30
		Hexachlorobutadiene	67.9	74.9	70	130	9.80	30
		Hexachloroethane	47.6	51.7	70	130	8.21	30
		Indeno(1,2,3-cd)pyrene	86.5	98.8	70	130	13.3	30
		N-Nitrosodipropylamine	66.6	72.0	43	89	7.84	30
		N-Nitrosomorpholine	72.9	79.5			8.69	30
		Naphthalene	69.4	76.6	70	130	9.83	30
		Nitrobenzene	70.1	76.9	70	130	9.22	30
		Pyrene	94.1	107	63	106	12.7	30
		Pyridine	61.2	56.4	70	130	8.23	30
		bis(2-Ethylhexyl)phthalate	88.6	96.8	70	130	8.76	30

HG Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2011-C8104

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2B1N8	S11V005010	Mercury	99.0	98.9	75	125	0.0606	20
		Mercury	99.0	99.9	75	125	0.965	20

PCB 222S Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2011-C8104

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2B1N8	S11V005009	Aroclor-1254	81.2	81.7	31.18	123.03	0.602	30
B2FB30	S11V005116	Aroclor-1254	84.5	81.1	75	125	4.12	30

SVOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2011-C8104

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2B1N8	S11V005009	1,2,4-Trichlorobenzene	27.3	24.6	24	79	10.6	30
		1,2-Dichlorobenzene	20.3	20.8	70	130	2.42	30
		2,4,5-Trichlorophenol	74.5	78.0	70	130	4.54	30
		2,4,6-Trichlorophenol	73.7	75.3	70	130	2.14	30
		2,4-Dinitrotoluene	73.4	79.0	55	105	7.34	30
		2,6 bis-4Methylphenol	58.7	60.3			2.61	30
		2-Chlorophenol	87.0	83.0	40	106	4.72	30
		2-Ethoxyethanol	83.0	73.9			11.6	30
		2-Methylphenol	88.2	86.3	70	130	2.09	30
		2-Nitrophenol	84.2	81.3	70	130	3.39	30
		3 & 4 Methylphenol Total	88.9	86.5	70	130	2.76	30
		4-Chloro-3-methylphenol	89.1	88.6	50	97	0.483	30
		Acenaphthene	63.1	68.8	34	106	8.57	30
		Benzo(a)anthracene	75.1	82.9	70	130	9.84	30
		Benzo(a)pyrene	79.1	87.6	70	130	10.2	30
		Benzo(b)fluoranthene	81.1	88.2	70	130	8.38	30
		Benzo(k)fluoranthene	76.4	83.9	70	130	9.35	30
		Butylbenzylphthalate	71.9	78.4	70	130	8.66	30
		Chrysene	77.5	84.0	70	130	8.06	30
		Cyclohexanone	77.2	77.0			0.191	30
		Di-n-butylphthalate	84.0	91.4	70	130	8.45	30
		Di-n-octylphthalate	75.7	82.2	70	130	8.30	30
		Dibenz(a,h)anthracene	81.3	93.5	70	130	13.9	30
		Fluoranthene	80.7	87.8	70	130	8.38	30
		Hexachlorobutadiene	17.0	14.6	70	130	15.0	30
		Hexachloroethane	10.0	9.87	70	130	1.79	30
		Indeno(1,2,3-cd)pyrene	79.6	93.0	70	130	15.5	30
		N-Nitrosodipropylamine	83.7	82.8	44	99	1.11	30
		N-Nitrosomorpholine	83.0	82.0			1.20	30
		Naphthalene	39.4	37.5	70	130	5.15	30
		Nitrobenzene	80.0	79.9	70	130	0.121	30
		Pyrene	77.8	84.3	65	111	8.13	30
		Pyridine	79.2	65.5	70	130	18.8	30
		bis(2-Ethylhexyl)phthalate	80.3	89.0	70	130	10.2	30

HG Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2011-C8106

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2FPR7	S11V005857	Mercury	97.7	99.8	75	125	2.13	20
B2FYM6	S11V005947	Mercury	97.8	106	75	125	7.59	20

PCB 222S Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2011-C8106

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2FPR7	S11V005859	Aroclor-1254	95.9	94.2	75	125	1.70	30

SVOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2011-C8106

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2FPR7	S11V006144	1,2,4-Trichlorobenzene	85.5	85.2	46	94	0.284	30
		1,2-Dichlorobenzene	81.6	80.6	70	130	1.23	30
		2,4,5-Trichlorophenol	103	103	70	130	0.184	30
		2,4,6-Trichlorophenol	97.0	95.6	70	130	1.43	30
		2,4-Dinitrotoluene	95.4	95.9	60	99	0.594	30
		2,6 bis-4Methylphenol	65.7	69.2	70	130	5.14	30
		2-Chlorophenol	86.2	85.6	48	93	0.737	30
		2-Ethoxyethanol	80.0	81.3	70	130	1.59	30
		2-Methylphenol	88.7	86.5	70	130	2.51	30
		2-Nitrophenol	90.4	87.6	70	130	3.09	30
		3 & 4 Methylphenol Total	91.2	88.5	70	130	3.01	30
		4-Chloro-3-methylphenol	105	107	52	94	1.84	30
		Acenaphthene	93.1	92.4	49	102	0.727	30
		Benzo(a)anthracene	109	108	70	130	1.31	30
		Benzo(a)pyrene	110	110	70	130	0.0	30
		Benzo(b)fluoranthene	119	109	70	130	8.54	30
		Benzo(k)fluoranthene	112	116	70	130	2.97	30
		Butylbenzylphthalate	118	115	70	130	2.89	30
		Chrysene	110	110	70	130	0.836	30
		Cyclohexanone	73.1	71.8	70	130	1.79	30
		Di-n-butylphthalate	121	127	70	130	4.06	30
		Di-n-octylphthalate	128	122	70	130	5.18	30
		Dibenz(a,h)anthracene	114	119	70	130	4.47	30
		Fluoranthene	109	111	70	130	2.30	30
		Hexachlorobutadiene	83.7	82.2	70	130	1.84	30
		Hexachloroethane	69.1	69.5	70	130	0.591	30
		Indeno(1,2,3-cd)pyrene	112	117	70	130	4.73	30
		N-Nitrosodipropylamine	82.7	79.5	43	89	3.89	30
		N-Nitrosomorpholine	79.6	76.2	70	130	4.25	30
		Naphthalene	85.4	82.9	70	130	3.01	30
		Nitrobenzene	85.6	81.1	70	130	5.38	30
		Pyrene	119	115	63	106	3.05	30
		Pyridine	76.2	77.7	70	130	1.93	30
		bis(2-Ethylhexyl)phthalate	129	127	70	130	1.69	30
B2FYM6	S11V006159	1,2,4-Trichlorobenzene	89.0	86.4	46	94	3.02	30
		1,2-Dichlorobenzene	85.1	83.3	70	130	2.16	30
		2,4,5-Trichlorophenol	87.5	92.7	70	130	5.82	30
		2,4,6-Trichlorophenol	80.8	83.1	70	130	2.77	30
		2,4-Dinitrotoluene	87.9	93.6	60	99	6.29	30
		2,6 bis-4Methylphenol	73.6	78.3	70	130	6.23	30
		2-Chlorophenol	84.5	84.9	48	93	0.464	30
		2-Ethoxyethanol	76.9	77.0	70	130	0.122	30
		2-Methylphenol	82.9	83.4	70	130	0.644	30

SVOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2011-C8106

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2FYM6	S11V006159	2-Nitrophenol	88.1	86.8	70	130	1.50	30
		3 & 4 Methylphenol Total	84.3	84.4	70	130	0.147	30
		4-Chloro-3-methylphenol	88.9	91.7	52	94	3.14	30
		Acenaphthene	86.2	88.4	49	102	2.49	30
		Benzo(a)anthracene	95.7	99.1	70	130	3.47	30
		Benzo(a)pyrene	96.5	101	70	130	4.46	30
		Benzo(b)fluoranthene	98.3	99.6	70	130	1.32	30
		Benzo(k)fluoranthene	100	106	70	130	5.67	30
		Butylbenzylphthalate	99.8	99.2	70	130	0.601	30
		Chrysene	94.6	100	70	130	5.88	30
		Cyclohexanone	74.1	73.8	70	130	0.391	30
		Di-n-butylphthalate	100	107	70	130	6.60	30
		Di-n-octylphthalate	101	101	70	130	0.297	30
		Dibenz(a,h)anthracene	94.6	98.3	70	130	3.79	30
		Fluoranthene	98.2	103	70	130	5.01	30
		Hexachlorobutadiene	88.5	86.6	70	130	2.13	30
		Hexachloroethane	73.7	72.9	70	130	1.10	30
		Indeno(1,2,3-cd)pyrene	93.5	97.1	70	130	3.74	30
		N-Nitrosodipropylamine	81.0	80.8	43	89	0.236	30
		N-Nitrosomorpholine	80.1	80.3	70	130	0.328	30
		Naphthalene	85.5	84.9	70	130	0.726	30
		Nitrobenzene	85.1	83.7	70	130	1.68	30
		Pyrene	99.4	99.7	63	106	0.261	30
		Pyridine	70.9	73.2	70	130	3.23	30
		bis(2-Ethylhexyl)phthalate	100	103	70	130	3.09	30
B2FYM9	S11V006168	1,2,4-Trichlorobenzene	83.4	79.9	46	94	4.30	30
		1,2-Dichlorobenzene	78.7	78.4	70	130	0.297	30
		2,4,5-Trichlorophenol	91.0	89.6	70	130	1.51	30
		2,4,6-Trichlorophenol	81.9	79.8	70	130	2.61	30
		2,4-Dinitrotoluene	97.8	94.2	60	99	3.77	30
		2,6 bis-4Methylphenol	74.3	65.4	70	130	12.8	30
		2-Chlorophenol	77.9	78.5	48	93	0.862	30
		2-Ethoxyethanol	71.1	70.8	70	130	0.341	30
		2-Methylphenol	78.3	76.0	70	130	3.02	30
		2-Nitrophenol	82.7	80.9	70	130	2.17	30
		3 & 4 Methylphenol Total	79.3	79.1	70	130	0.222	30
		4-Chloro-3-methylphenol	91.3	87.4	52	94	4.39	30
		Acenaphthene	86.5	82.5	49	102	4.74	30
		Benzo(a)anthracene	107	102	70	130	4.72	30
		Benzo(a)pyrene	110	104	70	130	5.45	30
		Benzo(b)fluoranthene	115	103	70	130	10.8	30
		Benzo(k)fluoranthene	109	109	70	130	0.0552	30
		Butylbenzylphthalate	113	109	70	130	3.64	30

SVOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2011-C8106

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B2FYM9	S11V006168	Chrysene	113	107	70	130	5.47	30
		Cyclohexanone	69.8	68.5	70	130	1.87	30
		Di-n-butylphthalate	114	110	70	130	3.59	30
		Di-n-octylphthalate	111	107	70	130	4.23	30
		Dibenz(a,h)anthracene	110	105	70	130	4.61	30
		Fluoranthene	108	104	70	130	4.36	30
		Hexachlorobutadiene	82.1	79.2	70	130	3.63	30
		Hexachloroethane	70.2	69.3	70	130	1.34	30
		Indeno(1,2,3-cd)pyrene	108	103	70	130	4.88	30
		Isobutanol						30
		Methylphenols, Total						
		N-Nitrosodipropylamine	75.8	75.5	43	89	0.423	30
		N-Nitrosomorpholine	74.8	74.1	70	130	0.912	30
		Naphthalene	80.6	78.1	70	130	3.14	30
		Nitrobenzene	79.6	77.4	70	130	2.81	30
		Pentachlorophenol			46	115		30
		Pyrene	114	110	63	106	3.37	30
		Pyridine	65.1	69.3	70	130	6.32	30
		Tri-n-butylphosphate			70	130		30
		bis(2-Ethylhexyl)phthalate	122	117	70	130	3.98	30

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

28328

Lab Name: 222-S Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARM060911

Level: (low/med) LOW

	CHG SAMPLE NO.	S1 (FBP) #	S2 (2FP) #	S3 (NBZ) #	S4 #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	PRP_BLK	72	66	64	70	81	92			0
02	LCS	76	67	70	72	89	97			0
03	S11V004785	74	66	66	72	84	97			0
04	S11V004785MS	80	68	70	75	98	104			0
05	S11V004785MS	75	62	63	70	93	99			0
06	S11V004728	77	59	61	69	89	101			0
07	S11V004745	84	66	69	76	99	105			0
08	S11V004823	72	62	59	68	86	95			0
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(48-108)
S2 (2FP)	= 2-Fluorophenol	(42- 99)
S3 (NBZ)	= Nitrobenzene-d5	(44-100)
S4	= Phenol-d6	(45-103)
S5 (TBP)	= 2,4,6-Tribromophenol	(49-111)
S6 (TPH)	= Terphenyl-d14	(55-122)

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

FORM 2

SOIL SEMIVOLATILE SURROGATE RECOVERY

28602

Lab Name: 222-S Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARM110620

Level:(low/med) LOW

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	76	69	71	73	85	98			0
02	LCS	82	71	74	75	99	96			0
03	S11V004859	71	67	66	69	80	96			0
04	S11V004859MS	79	71	70	74	96	97			0
05	S11V004859MS	81	71	73	74	98	96			0
06	S11V004908	72	67	67	71	87	94			0
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(48-108)
S2 (2FP)	= 2-Fluorophenol	(42- 99)
S3 (NBZ)	= Nitrobenzene-d5	(44-100)
S4	= Phenol-d6	(45-103)
S5 (TBP)	= 2,4,6-Tribromophenol	(49-111)
S6 (TPH)	= Terphenyl-d14	(55-122)

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

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

28631

Lab Name: 222-S Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARM110622

Level: (low/med) LOW

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	69	64	63	67	78	86			0
02	LCS	76	66	67	70	92	92			0
03	S11V004944	74	69	65	72	82	87			0
04	S11V004944MS	75	66	64	69	84	89			0
05	S11V004944MS	80	72	70	75	92	98			0
06	S11V004926	68	62	58	66	82	86			0
07	S11V004962	79	75	71	79	91	96			0
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(48-108)
S2 (2FP)	= 2-Fluorophenol	(42- 99)
S3 (NBZ)	= Nitrobenzene-d5	(44-100)
S4	= Phenol-d6	(45-103)
S5 (TBP)	= 2,4,6-Tribromophenol	(49-111)
S6 (TPH)	= Terphenyl-d14	(55-122)

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

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

28641

Lab Name: 222-S Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARM110623

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	30	61	62	66	68	81			0
02	LCS	43	58	67	63	74	62			0
03	S11V004715	41	64	66	68	65	91			0
04	S11V004715MS	44	64	72	70	81	71			0
05	S11V004715MS	42	66	71	71	78	90			0
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(27- 91)
S2 (2FP)	= 2-Fluorophenol	(38-109)
S3 (NBZ)	= Nitrobenzene-d5	(43-108)
S4	= Phenol-d6	(39-115)
S5 (TBP)	= 2,4,6-Tribromophenol	(48-112)
S6 (TPH)	= Terphenyl-d14	(58-119)

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

FORM 2

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: 29101 Contract:

Lab Code: Case No.: SAS No.: SDG No.: 20111028SV

	CHG SAMPLE NO.	S1 (FBP) #	S2 (2FP) #	S3 (NBZ) #	S4 #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	PRPBLK	38	75	73	80	71	97			0
02	LCS	53	80	85	86	85	90			0
03	S11V005009	42	81	84	85	77	102			0
04	S11V005009MS	48	81	88	86	87	101			0
05	S11V005009MS	48	77	84	83	84	91			0
06	CHKSTD	91	92	94	93	84	96			0
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(27- 91)
S2 (2FP)	= 2-Fluorophenol	(38-109)
S3 (NBZ)	= Nitrobenzene-d5	(43-108)
S4	= Phenol-d6	(39-115)
S5 (TBP)	= 2,4,6-Tribromophenol	(48-112)
S6 (TPH)	= Terphenyl-d14	(58-119)

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

FORM 2

SOIL SEMIVOLATILE SURROGATE RECOVERY

31350

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 20111362SV

Level: (low/med) LOW

	CHG SAMPLE NO.	S1 (FBP) #	S2 (2FP) #	S3 (NBZ) #	S4 #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	BLANK	79	80	81	83	80	98			0
02	LCS	88	83	86	88	101	114			0
03	S11V006144	85	79	78	88	100	115			0
04	S11V006133MS	87	81	78	89	105	117			0
05	S11V006144MS	86	80	80	84	102	116			0
06	S11V006147	76	71	69	77	89	103			0
07	S11V006153	72	74	66	78	90	114			0
08	S11V006156	78	77	76	82	90	106			0
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(48-108)
S2 (2FP)	= 2-Fluorophenol	(42- 99)
S3 (NBZ)	= Nitrobenzene-d5	(44-100)
S4	= Phenol-d6	(45-103)
S5 (TBP)	= 2,4,6-Tribromophenol	(49-111)
S6 (TPH)	= Terphenyl-d14	(55-122)

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

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: 31701 Contract:

Lab Code: Case No.: SAS No.: SDG No.: 20111362SV

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (FBP) #	S2 (2FP) #	S3 (NBZ) #	S4 #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	PREPBLANK	87	83	85	86	87	103			0
02	LCS	86	75	85	81	94	100			0
03	S11V006159	75	71	70	75	82	90			0
04	S11V006159MS	85	78	83	82	90	100			0
05	S11V006159MS	87	78	86	82	98	103			0
06	S11V006150	79	71	68	75	86	98			0
07	S11V006162	84	79	81	84	88	99			0
08	S11V006165	80	74	75	79	83	99			0
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(48-108)
S2 (2FP)	= 2-Fluorophenol	(42- 99)
S3 (NBZ)	= Nitrobenzene-d5	(44-100)
S4	= Phenol-d6	(45-103)
S5 (TBP)	= 2,4,6-Tribromophenol	(49-111)
S6 (TPH)	= Terphenyl-d14	(55-122)

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

FORM 2

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: 31704 Contract:

Lab Code: Case No.: SAS No.: SDG No.: 20111362SV

Level: (low/med) LOW

	CHG SAMPLE NO.	S1 (FBP) #	S2 (2FP) #	S3 (NBZ) #	S4 #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	BLANK	78	72	75	77	84	111			0
02	LCS	83	74	83	80	99	106			0
03	S11V006168	73	70	72	74	84	92			0
04	S11V006168MS	84	72	82	76	102	114			0
05	S11V006168MS	97	70	96	75	95	132*			1
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(48-108)
S2 (2FP)	= 2-Fluorophenol	(42- 99)
S3 (NBZ)	= Nitrobenzene-d5	(44-100)
S4	= Phenol-d6	(45-103)
S5 (TBP)	= 2,4,6-Tribromophenol	(49-111)
S6 (TPH)	= Terphenyl-d14	(55-122)

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

2F

SOIL PESTICIDE SURROGATE RECOVERY

29075

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: PCBCFARMC8102

GC Column(1): RESTEK XTI-5 ID: 0.25 (mm)

	EPA SAMPLE NO.	S1 %REC #	TCX %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	BLK	101	84					0
02	LCS	102	93					0
03	S11V004726	99	91					0
04	S11V004726MS	96	90					0
05	S11V004726MS	95	89					0
06	S11V004743	97	90					0
07	S11V004783	98	90					0
08	S11V004803	100	85					0
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ADVISORY
QC LIMITS

S1 = Decachlorobiphenyl (DC (64-133)
S2 (TCX) = Tetrachloro-m-Xylene (53-115)

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

2E

WATER PESTICIDE SURROGATE RECOVERY

28686

Lab Name: Contract:

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

GC Column(1): RESTEK XTI-5 ID: 0.25 (mm)

	EPA SAMPLE NO.	S1 %REC #	TCX %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	BLANK	89	39					0
02	LCS	78	33					0
03	S11V004715SA	48	44					0
04	S11V004715MS	49	44					0
05	S11V004715MS	57	46					0
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ADVISORY QC LIMITS

S1 = Decachlorobiphenyl (DC (19-145)

S2 (TCX) = Tetrachloro-m-Xylene (21-106)

\# Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

2F

SOIL PESTICIDE SURROGATE RECOVERY

30853

Lab Name: Contract:

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

GC Column(1): RESTEK XTI-5 ID: 0.25 (mm)

	EPA SAMPLE NO.	S1 %REC #	TCX %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	BLANK	102	76					0
02	LCS	104	88					0
03	S11V005116	103	84					0
04	S11V005116MS	105	88					0
05	S11V005116MS	102	83					0
06	S11V005058	100	82					0
07	S11V005098	102	88					0
08	S11V005452	92	88					0
09	S11V005468	98	93					0
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ADVISORY
QC LIMITS

S1 = Decachlorobiphenyl (DC (64-133)
S2 (TCX) = Tetrachloro-m-Xylene (53-115)

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

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: 29825 Contract:

Lab Code: Case No.: SAS No.: SDG No.: PCBCFARMC8104

GC Column(1): RESTEK XTI-5 ID: 0.25 (mm)

	EPA SAMPLE NO.	S1 %REC #	TCX %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	BLK	92	45					0
02	LCS	74	40					0
03	S11V005009	62	44					0
04	S11V005009MS	70	53					0
05	S11V005009MS	61	46					0
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ADVISORY
QC LIMITS

S1 = Decachlorobiphenyl (DC (19-145)
S2 (TCX) = Tetrachloro-m-Xylene (21-106)

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

2F

SOIL PESTICIDE SURROGATE RECOVERY

31748

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: PCBCFARMC8106

GC Column(1): RESTEK XTI-5 ID: 0.25 (mm)

	EPA SAMPLE NO.	S1 %REC #	TCX %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	BLANK	94	74					0
02	LCS	103	77					0
03	S11V005859SA	90	75					0
04	S11V005859MS	98	70					0
05	S11V005859MS	97	76					0
06	S11V005873SA	93	75					0
07	S11V005892SA	112	98					0
08	S11V005911SA	107	98					0
09	S11V005930SA	101	89					0
10	S11V005968SA	98	85					0
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30								

ADVISORY
QC LIMITS

S1 = Decachlorobiphenyl (DC (64-133)
S2 (TCX) = Tetrachloro-m-Xylene (53-115)

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

Data File: 11060910LCS.D 28328 Page 1
Report Date: 22-Jun-2011 14:52

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Sol.spk
Sublist File: NTC+TC.sub
Method File: \\apwscf02\slab\chem\tuvok.i\2011\110609_CFARM.B\TCNTC110531.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-78.01

Client SDG: CFARM060911
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
2	Isobutylalcohol	4000.0	1814.6	45.36*	70-130
4	2-Ethoxyethanol	2000.0	1297.8	64.89*	70-130
6	Pyridine	4000.0	2473.3	61.83*	70-130
8	Cyclohexanone	2000.0	1150.4	57.52*	70-130
14	2-Chlorophenol	2000.0	1328.4	66.42	48-93
17	1,2-Dichlorobenzen	2000.0	1290.2	64.51*	70-130
18	2-Methylphenol	2000.0	1279.3	63.96*	70-130
20	3- and 4-Methylphe	2000.0	1345.0	67.25*	70-130
21	N-Nitroso-di-n-pro	2000.0	1304.6	65.23	43-89
22	n-Nitrosomorpholin	2000.0	1452.2	72.61	70-130
23	Hexachloroethane	2000.0	1007.0	50.35*	70-130
25	Nitrobenzene	2000.0	1368.6	68.43*	70-130
27	2-Nitrophenol	2000.0	1270.8	63.54*	70-130
31	1,2,4-Trichloroben	2000.0	1334.1	66.71	46-94
33	Naphthalene	2000.0	1352.1	67.61*	70-130
35	Hexachlorobutadien	2000.0	1340.2	67.01*	70-130
36	4-Chloro-3-Methylp	2000.0	1453.5	72.68	52-94
39	2,4,6-Trichlorophe	2000.0	1453.7	72.68	70-130
40	2,4,5-Trichlorphen	2000.0	1552.6	77.63	70-130
49	2,6-Bis(tertbutyl)	2000.0	450.63	22.53*	70-130
47	Acenaphthene	2000.0	1515.5	75.78	49-102
53	2,4-Dinitrotoluene	2000.0	1608.6	80.43	60-99
70	Di-n-butylphthalat	2000.0	1919.0	95.95	70-130
71	Fluoranthene	2000.0	1789.8	89.49	70-130
72	Pyrene	2000.0	1945.2	97.26	63-106
74	Butylbenzylphthala	2000.0	1943.1	97.16	70-130
75	bis(2-Ethylhexyl)p	2000.0	1878.9	93.94	70-130
76	Benzo(a)anthracene	2000.0	1805.0	90.25	70-130
78	Chrysene	2000.0	1826.4	91.32	70-130
79	Di-n-octylphthalat	2000.0	1720.9	86.04	70-130
80	Benzo(b)fluoranthe	2000.0	1874.9	93.74	70-130
81	Benzo(k)fluoranthe	2000.0	1960.8	98.04	70-130
82	Benzo(a)pyrene	2000.0	1821.8	91.09	70-130
84	Indeno(1,2,3-cd)py	2000.0	1923.7	96.19	70-130
85	Dibenzo(a,h)anthra	2000.0	1976.9	98.85	70-130

Data File: 11060910LCS.D 98328 Page 2
Report Date: 22-Jun-2011 14:52

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Sol.spk
Sublist File: NTC+TC.sub
Client SDG: CFARM060911
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD
Method File: \\apwscf02\slab\chem\tuvok.i\2011\110609_CFARM.B\TCNTC110531.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-78.01

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	4000.0	2672.5	66.81	42-99
$ 10 Phenol-d6	4000.0	2866.6	71.67	45-103
$ 24 Nitrobenzene-d5	2000.0	1399.7	69.98	44-100
$ 41 2-Fluorobiphenyl	2000.0	1511.4	75.57	48-108
$ 62 2,4,6-Tribromophen	4000.0	3567.2	89.18	49-111
$ 73 Terphenyl-d14	2000.0	1939.4	96.97	55-122

28602

Data File: 11062006LCS.D
Report Date: 28-Jun-2011 11:26

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Sol.spk
Sublist File: NTC+TC.sub
Method File: \\APWSCF02\slab\chem\tuvok.i\2011\110620_CFarm.B\TCNTC110531.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-78.01

Client SDG: CFARM110620
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
2	Isobutylalcohol	4000.0	1934.5	48.36*	70-130
4	2-Ethoxyethanol	2000.0	1613.1	80.65	70-130
6	Pyridine	4000.0	2726.0	68.15*	70-130
8	Cyclohexanone	2000.0	1262.5	63.12*	70-130
14	2-Chlorophenol	2000.0	1470.1	73.50	48-93
17	1,2-Dichlorobenzen	2000.0	1429.5	71.48	70-130
18	2-Methylphenol	2000.0	1410.5	70.52	70-130
20	3- and 4-Methylphe	2000.0	1448.2	72.41	70-130
21	N-Nitroso-di-n-pro	2000.0	1427.6	71.38	43-89
22	n-Nitrosomorpholin	2000.0	1578.3	78.91	70-130
23	Hexachloroethane	2000.0	1146.5	57.33*	70-130
25	Nitrobenzene	2000.0	1485.8	74.29	70-130
27	2-Nitrophenol	2000.0	1418.7	70.94	70-130
31	1,2,4-Trichloroben	2000.0	1441.7	72.09	46-94
33	Naphthalene	2000.0	1458.0	72.90	70-130
35	Hexachlorobutadien	2000.0	1478.5	73.92	70-130
36	4-Chloro-3-Methylp	2000.0	1568.5	78.43	52-94
39	2,4,6-Trichlorophe	2000.0	1662.5	83.12	70-130
40	2,4,5-Trichlorphen	2000.0	1755.2	87.76	70-130
49	2,6-Bis(tertbutyl)	2000.0	1344.4	67.22*	70-130
47	Acenaphthene	2000.0	1661.8	83.09	49-102
53	2,4-Dinitrotoluene	2000.0	1865.9	93.29	60-99
70	Di-n-butylphthalat	2000.0	1979.4	98.97	70-130
71	Fluoranthene	2000.0	1855.8	92.79	70-130
72	Pyrene	2000.0	1969.5	98.48	63-106
74	Butylbenzylphthala	2000.0	1958.1	97.90	70-130
75	bis(2-Ethylhexyl)p	2000.0	1912.1	95.61	70-130
76	Benzo(a)anthracene	2000.0	1878.9	93.95	70-130
78	Chrysene	2000.0	1868.5	93.42	70-130
79	Di-n-octylphthalat	2000.0	1719.4	85.97	70-130
80	Benzo(b)fluoranthe	2000.0	1844.1	92.20	70-130
81	Benzo(k)fluoranthe	2000.0	1984.0	99.20	70-130
82	Benzo(a)pyrene	2000.0	1875.0	93.75	70-130
84	Indeno(1,2,3-cd)py	2000.0	1878.0	93.90	70-130
85	Dibenzo(a,h)anthra	2000.0	1911.6	95.58	70-130

28602

Data File: 11062006LCS.D
Report Date: 28-Jun-2011 11:26

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Sol.spk
Sublist File: NTC+TC.sub
Client SDG: CFARM110620
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD
Method File: \\APWSCF02\slab\chem\tuvok.i\2011\110620_CFarm.B\TCNTC110531.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-78.01

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	4000.0	2841.2	71.03	42-99
$ 10 Phenol-d6	4000.0	3018.8	75.47	45-103
$ 24 Nitrobenzene-d5	2000.0	1491.3	74.57	44-100
$ 41 2-Fluorobiphenyl	2000.0	1646.4	82.32	48-108
$ 62 2,4,6-Tribromophen	4000.0	3961.6	99.04	49-111
$ 73 Terphenyl-d14	2000.0	1910.2	95.51	55-122

Data File: 11062206LCS.D 28631 Page 1
Report Date: 30-Jun-2011 14:54

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Sol.spk
Sublist File: NTC+TC.sub
Method File: \\APWSCF02\slab\chem\tuvok.i\2011\110622_CFarm.B\TCNTC110531.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-78.01

Client SDG: CFARM110622
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
2	Isobutylalcohol	4000.0	1624.5	40.61*	70-130
4	2-Ethoxyethanol	2000.0	1520.6	76.03	70-130
6	Pyridine	4000.0	2524.6	63.12*	70-130
8	Cyclohexanone	2000.0	1201.2	60.06*	70-130
14	2-Chlorophenol	2000.0	1373.8	68.69	48-93
17	1,2-Dichlorobenzen	2000.0	1338.6	66.93*	70-130
18	2-Methylphenol	2000.0	1333.4	66.67*	70-130
20	3- and 4-Methylphe	2000.0	1368.3	68.41*	70-130
21	N-Nitroso-di-n-pro	2000.0	1330.2	66.51	43-89
22	n-Nitrosomorpholin	2000.0	1494.7	74.73	70-130
23	Hexachloroethane	2000.0	1045.6	52.28*	70-130
25	Nitrobenzene	2000.0	1435.4	71.77	70-130
27	2-Nitrophenol	2000.0	1371.1	68.55*	70-130
31	1,2,4-Trichloroben	2000.0	1407.5	70.37	46-94
33	Naphthalene	2000.0	1421.1	71.06	70-130
35	Hexachlorobutadien	2000.0	1396.1	69.81*	70-130
36	4-Chloro-3-Methylp	2000.0	1525.9	76.29	52-94
39	2,4,6-Trichlorophe	2000.0	1541.6	77.08	70-130
40	2,4,5-Trichlorphen	2000.0	1618.7	80.94	70-130
49	2,6-Bis(tertbutyl)	2000.0	1291.8	64.59*	70-130
47	Acenaphthene	2000.0	1578.4	78.92	49-102
53	2,4-Dinitrotoluene	2000.0	1738.6	86.93	60-99
70	Di-n-butylphthalat	2000.0	1883.2	94.16	70-130
71	Fluoranthene	2000.0	1727.0	86.35	70-130
72	Pyrene	2000.0	1893.8	94.69	63-106
74	Butylbenzylphthala	2000.0	1868.2	93.41	70-130
75	bis(2-Ethylhexyl)p	2000.0	1792.6	89.63	70-130
76	Benzo(a)anthracene	2000.0	1768.5	88.42	70-130
78	Chrysene	2000.0	1759.6	87.98	70-130
79	Di-n-octylphthalat	2000.0	1642.1	82.11	70-130
80	Benzo(b)fluoranthe	2000.0	1774.5	88.72	70-130
81	Benzo(k)fluoranthe	2000.0	1911.0	95.55	70-130
82	Benzo(a)pyrene	2000.0	1788.9	89.44	70-130
84	Indeno(1,2,3-cd)py	2000.0	1783.5	89.18	70-130
85	Dibenzo(a,h)anthra	2000.0	1815.7	90.78	70-130

28631

Data File: 11062206LCS.D
Report Date: 30-Jun-2011 14:54

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Sol.spk
Sublist File: NTC+TC.sub
Method File: \\APWSCF02\slab\chem\tuvok.i\2011\110622_CFarm.B\TCNTC110531.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-78.01

Client SDG: CFARM110622
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	4000.0	2634.7	65.87	42-99
$ 10 Phenol-d6	4000.0	2811.4	70.29	45-103
$ 24 Nitrobenzene-d5	2000.0	1349.5	67.47	44-100
$ 41 2-Fluorobiphenyl	2000.0	1522.4	76.12	48-108
$ 62 2,4,6-Tribromophen	4000.0	3664.7	91.62	49-111
$ 73 Terphenyl-d14	2000.0	1831.4	91.57	55-122

28641

Data File: 6_LCS.D
Report Date: 06-Jul-2011 14:44

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: LIQUID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Liq.spk
Sublist File: NTC+TC.sub
Client SDG: CFARM110623
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD
Method File: \\APWSCF02\slab\chem\tuvok.i\2011\110623_CFarm.B\TCNTC110531.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-78.01

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
2	Isobutylalcohol	1142.8	469.02	41.04*	70-130
4	2-Ethoxyethanol	571.43	420.11	73.52	70-130
6	Pyridine	1142.8	719.14	62.93*	70-130
8	Cyclohexanone	571.43	332.32	58.16*	70-130
14	2-Chlorophenol	571.43	373.74	65.41	40-106
17	1,2-Dichlorobenzen	571.43	96.372	16.87*	70-130
18	2-Methylphenol	571.43	366.59	64.15*	70-130
20	3- and 4-Methylphe	571.43	372.88	65.25*	70-130
21	N-Nitroso-di-n-pro	571.43	366.26	64.10	44-99
22	n-Nitrosomorpholin	571.43	425.23	74.42	70-130
23	Hexachloroethane	571.43	27.321	4.78*	70-130
25	Nitrobenzene	571.43	375.28	65.67*	70-130
27	2-Nitrophenol	571.43	341.19	59.71*	70-130
31	1,2,4-Trichloroben	571.43	103.56	18.12*	24-79
33	Naphthalene	571.43	197.37	34.54*	70-130
35	Hexachlorobutadien	571.43	44.254	7.74*	70-130
36	4-Chloro-3-Methylp	571.43	387.10	67.74	50-97
39	2,4,6-Trichlorophe	571.43	358.79	62.79*	70-130
40	2,4,5-Trichlorphen	571.43	351.15	61.45*	70-130
49	2,6-Bis(tertbutyl)	571.43	210.88	36.90*	70-130
47	Acenaphthene	571.43	263.74	46.15	34-106
53	2,4-Dinitrotoluene	571.43	345.11	60.39	55-105
70	Di-n-butylphthalat	571.43	319.40	55.89*	70-130
71	Fluoranthene	571.43	296.20	51.84*	70-130
72	Pyrene	571.43	337.74	59.11*	65-111
74	Butylbenzylphthala	571.43	309.87	54.23*	70-130
75	bis(2-Ethylhexyl)p	571.43	293.25	51.32*	70-130
76	Benzo(a)anthracene	571.43	310.38	54.32*	70-130
78	Chrysene	571.43	308.35	53.96*	70-130
79	Di-n-octylphthalat	571.43	255.22	44.66*	70-130
80	Benzo(b)fluoranthe	571.43	319.47	55.91*	70-130
81	Benzo(k)fluoranthe	571.43	322.67	56.47*	70-130
82	Benzo(a)pyrene	571.43	308.84	54.05*	70-130
84	Indeno(1,2,3-cd)py	571.43	305.86	53.53*	70-130
85	Dibenzo(a,h)anthra	571.43	317.55	55.57*	70-130

28641

Data File: 6_LCS.D
Report Date: 06-Jul-2011 14:44

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: LIQUID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Liq.spk
Sublist File: NTC+TC.sub
Client SDG: CFARM110623
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD
Method File: \\APWSCF02\slab\chem\tuvok.i\2011\110623_CFarm.B\TCNTC110531.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-78.01

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	1142.8	669.04	58.54	38-109
$ 10 Phenol-d6	1142.8	720.90	63.08	39-115
$ 24 Nitrobenzene-d5	571.43	384.50	67.29	43-108
$ 41 2-Fluorobiphenyl	571.43	243.59	42.63	27-91
$ 62 2,4,6-Tribromophen	1142.8	847.53	74.16	48-112
$ 73 Terphenyl-d14	571.43	352.36	61.66	58-119

FORM 3

WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: 29101 Contract:

Lab Code: Case No.: SAS No.: SDG No.: 20111028SV

Matrix Spike - CHG Sample No.: LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	571.43		200.01	35	24- 79
1,2-Dichlorobenzene	571.43		137.54	24*	70-130
2,4-Dinitrotoluene	571.43		414.98	73	55-105
2,4,5-Trichlorphenol	571.43		413.04	72	70-130
2,4,6-Trichlorophenol	571.43		407.19	71	70-130
2-Methylphenol	571.43		493.45	86	70-130
2-Nitrophenol	571.43		470.93	82	70-130
3- and 4-Methylphenol (	571.43		499.94	87	70-130
Acenaphthene	571.43		375.95	66	34-106
Benzo(a)anthracene	571.43		457.30	80	70-130
Benzo(b)fluoranthene	571.43		492.15	86	70-130
Benzo(a)pyrene	571.43		473.72	83	70-130
bis(2-Ethylhexyl)phthal	571.43		485.78	85	70-130
Benzo(k)fluoranthene	571.43		469.74	82	70-130
Butylbenzylphthalate	571.43		443.13	78	70-130
4-Chloro-3-Methylphenol	571.43		492.68	86	50- 97
2-Chlorophenol	571.43		479.77	84	40-106
Chrysene	571.43		471.23	82	70-130
Dibenzo(a,h)anthracene	571.43		483.08	84	70-130
Di-n-butylphthalate	571.43		503.72	88	70-130
Di-n-octylphthalate	571.43		459.93	80	70-130
N-Nitroso-di-n-prop.(1)	571.43		472.14	83	44- 99
Fluoranthene	571.43		489.86	86	70-130
Hexachlorobutadiene	571.43		120.54	21*	70-130
Hexachloroethane	571.43		58.981	10*	70-130
Indeno(1,2,3-cd)pyrene	571.43		480.94	84	70-130
Naphthalene	571.43		281.70	49*	70-130
Nitrobenzene	571.43		456.62	80	70-130

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

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

COMMENTS: _____

FORM 3

WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: 29101 Contract:

Lab Code: Case No.: SAS No.: SDG No.: 20111028SV

Matrix Spike - CHG Sample No.: LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Pyrene	571.43		457.43	80	65-111
Pyridine	1142.8		870.52	76	70-130
Cyclohexanone	571.43		438.72	77	70-130
2-Ethoxyethanol	571.43		458.58	80	70-130
n-Nitrosomorpholine	571.43		473.84	83	70-130
2,6-Bis(tertbutyl)-4-me	571.43		328.98	58*	70-130
Isobutylalcohol	1142.8		478.63	42*	70-130

(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: 6 out of 35 outside limits

COMMENTS: _____

31350

Data File: 11111007LCS.D
Report Date: 15-Nov-2011 09:01

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Sol.spk
Sublist File: NTC+TC.sub
Client SDG: 20111362SV
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD
Method File: \\APWSCF02\SLab\chem\tuvok.i\2011\111110_CFarm.B\TCNTC110913.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-122.02

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
2	Isobutylalcohol	4000.0	1955.7	48.89*	70-130
4	2-Ethoxyethanol	2000.0	1706.9	85.34	70-130
6	Pyridine	4000.0	3184.6	79.61	70-130
8	Cyclohexanone	2000.0	1564.2	78.21	70-130
14	2-Chlorophenol	2000.0	1761.1	88.06	48-93
17	1,2-Dichlorobenzen	2000.0	1759.1	87.95	70-130
18	2-Methylphenol	2000.0	1798.7	89.94	70-130
20	3- and 4-Methylphe	2000.0	1807.1	90.36	70-130
21	N-Nitroso-di-n-pro	2000.0	1692.8	84.64	43-89
22	n-Nitrosomorpholin	2000.0	1641.3	82.07	70-130
23	Hexachloroethane	2000.0	1517.7	75.89	70-130
25	Nitrobenzene	2000.0	1730.3	86.52	70-130
27	2-Nitrophenol	2000.0	1803.5	90.18	70-130
31	1,2,4-Trichloroben	2000.0	1781.2	89.06	46-94
33	Naphthalene	2000.0	1764.3	88.22	70-130
35	Hexachlorobutadien	2000.0	1737.7	86.89	70-130
36	4-Chloro-3-Methylp	2000.0	1952.8	97.64*	52-94
39	2,4,6-Trichlorophe	2000.0	1788.5	89.43	70-130
40	2,4,5-Trichlorphen	2000.0	1889.2	94.46	70-130
49	2,6-Bis(tertbutyl)	2000.0	1673.2	83.66	70-130
47	Acenaphthene	2000.0	1861.0	93.05	49-102
53	2,4-Dinitrotoluene	2000.0	1972.3	98.62	60-99
70	Di-n-butylphthalat	2000.0	2540.0	127.00	70-130
71	Fluoranthene	2000.0	2241.7	112.08	70-130
72	Pyrene	2000.0	2344.8	117.24*	63-106
74	Butylbenzylphthala	2000.0	2291.0	114.55	70-130
75	bis(2-Ethylhexyl)p	2000.0	2579.5	128.97	70-130
76	Benzo(a)anthracene	2000.0	2246.7	112.34	70-130
78	Chrysene	2000.0	2270.8	113.54	70-130
79	Di-n-octylphthalat	2000.0	2322.8	116.14	70-130
80	Benzo(b)fluoranthe	2000.0	2338.0	116.90	70-130
81	Benzo(k)fluoranthe	2000.0	2229.3	111.46	70-130
82	Benzo(a)pyrene	2000.0	2306.9	115.34	70-130
84	Indeno(1,2,3-cd)py	2000.0	2452.4	122.62	70-130
85	Dibenzo(a,h)anthra	2000.0	2471.4	123.57	70-130

31350

WSCF

RECOVERY REPORT

Client Name: CHG
Client SDG: 20111362SV
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: LCS
Client Smp ID: LCS
Level: LOW
Operator: cjo
Data Type: MS DATA
SampleType: LCS
SpikeList File: Vadose_CSTM_Sol.spk
Quant Type: ISTD
Sublist File: NTC+TC.sub
Method File: \\APWSCF02\SLab\chem\tuvok.i\2011\111110_CFarm.B\TCNTC110913.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-122.02

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	4000.0	3337.3	83.43	42-99
$ 10 Phenol-d6	4000.0	3517.5	87.94	45-103
$ 24 Nitrobenzene-d5	2000.0	1722.2	86.11	44-100
$ 41 2-Fluorobiphenyl	2000.0	1771.6	88.58	48-108
$ 62 2,4,6-Tribromophen	4000.0	4051.2	101.28	49-111
$ 73 Terphenyl-d14	2000.0	2288.3	114.41	55-122

Data File: 11112205LCS.D 31701
Report Date: 29-Nov-2011 12:23

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Sol.spk
Sublist File: NTC+TC.sub
Client SDG: 20111362SV
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD
Method File: \\APWSCF02\SLab\chem\tuvok.i\2011\111122_CFarm.B\TCNTC111118.m
Misc Info: 2.5 uL Int Std HNF-N-1895-125.05

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
2 Isobutylalcohol	4000.0	1850.4	46.26*	70-130
4 2-Ethoxyethanol	2000.0	1397.0	69.85*	70-130
6 Pyridine	4000.0	2829.2	70.73	70-130
8 Cyclohexanone	2000.0	1413.4	70.67	70-130
14 2-Chlorophenol	2000.0	1585.4	79.27	48-93
17 1,2-Dichlorobenzen	2000.0	1576.0	78.80	70-130
18 2-Methylphenol	2000.0	1577.8	78.89	70-130
20 3- and 4-Methylphe	2000.0	1606.9	80.35	70-130
21 N-Nitroso-di-n-pro	2000.0	1555.8	77.79	43-89
22 n-Nitrosomorpholin	2000.0	1532.7	76.64	70-130
23 Hexachloroethane	2000.0	1387.9	69.39*	70-130
25 Nitrobenzene	2000.0	1632.4	81.62	70-130
27 2-Nitrophenol	2000.0	1662.8	83.14	70-130
31 1,2,4-Trichloroben	2000.0	1672.6	83.63	46-94
33 Naphthalene	2000.0	1633.1	81.66	70-130
35 Hexachlorobutadien	2000.0	1684.2	84.21	70-130
36 4-Chloro-3-Methylp	2000.0	1758.8	87.94	52-94
39 2,4,6-Trichlorophe	2000.0	1555.3	77.76	70-130
40 2,4,5-Trichlorphen	2000.0	1738.1	86.91	70-130
49 2,6-Bis(tertbutyl)	2000.0	1538.6	76.93	70-130
47 Acenaphthene	2000.0	1715.6	85.78	49-102
53 2,4-Dinitrotoluene	2000.0	1798.3	89.92	60-99
70 Di-n-butylphthalat	2000.0	1994.8	99.74	70-130
71 Fluoranthene	2000.0	1982.4	99.12	70-130
72 Pyrene	2000.0	1913.8	95.69	63-106
74 Butylbenzylphthala	2000.0	1910.7	95.53	70-130
75 bis(2-Ethylhexyl)p	2000.0	2006.8	100.34	70-130
76 Benzo(a)anthracene	2000.0	1942.4	97.12	70-130
78 Chrysene	2000.0	1958.0	97.90	70-130
79 Di-n-octylphthalat	2000.0	1903.0	95.15	70-130
80 Benzo(b)fluoranthe	2000.0	2007.0	100.35	70-130
81 Benzo(k)fluoranthe	2000.0	1916.4	95.82	70-130
82 Benzo(a)pyrene	2000.0	1952.2	97.61	70-130
84 Indeno(1,2,3-cd)py	2000.0	2042.3	102.12	70-130
85 Dibenzo(a,h)anthra	2000.0	2081.0	104.05	70-130

Data File: 11112205LCS.D 31701
Report Date: 29-Nov-2011 12:23

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Sol.spk
Sublist File: NTC+TC.sub
Client SDG: 20111362SV
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD
Method File: \\APWSCF02\SLab\chem\tuvok.i\2011\111122_CFarm.B\TCNTC111118.m
Misc Info: 2.5 uL Int Std HNF-N-1895-125.05

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	4000.0	3010.0	75.25	42-99
$ 10 Phenol-d6	4000.0	3245.2	81.13	45-103
$ 24 Nitrobenzene-d5	2000.0	1692.3	84.61	44-100
$ 41 2-Fluorobiphenyl	2000.0	1725.6	86.28	48-108
$ 62 2,4,6-Tribromophen	4000.0	3775.3	94.38	49-111
$ 73 Terphenyl-d14	2000.0	2000.1	100.01	55-122

31704

Data File: 11112808LCS.D
Report Date: 01-Dec-2011 11:14

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Sol.spk
Sublist File: NTC+TC.sub
Client SDG: 20111362SV
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD
Method File: \\APWSCF02\SLab\chem\tuvok.i\2011\111128_CFarm.B\TCNTC111118.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-125.05

	SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
2	Isobutylalcohol	4000.0	1979.4	49.49*	70-130
4	2-Ethoxyethanol	2000.0	1478.0	73.90	70-130
6	Pyridine	4000.0	2866.0	71.65	70-130
8	Cyclohexanone	2000.0	1440.2	72.01	70-130
14	2-Chlorophenol	2000.0	1632.0	81.60	48-93
17	1,2-Dichlorobenzen	2000.0	1661.0	83.05	70-130
18	2-Methylphenol	2000.0	1605.2	80.26	70-130
20	3- and 4-Methylphe	2000.0	1646.6	82.33	70-130
21	N-Nitroso-di-n-pro	2000.0	1566.7	78.33	43-89
22	n-Nitrosomorpholin	2000.0	1586.5	79.33	70-130
23	Hexachloroethane	2000.0	1458.4	72.92	70-130
25	Nitrobenzene	2000.0	1631.9	81.59	70-130
27	2-Nitrophenol	2000.0	1685.9	84.30	70-130
31	1,2,4-Trichloroben	2000.0	1687.2	84.36	46-94
33	Naphthalene	2000.0	1634.0	81.70	70-130
35	Hexachlorobutadien	2000.0	1686.9	84.35	70-130
36	4-Chloro-3-Methylp	2000.0	1800.0	90.00	52-94
39	2,4,6-Trichlorophe	2000.0	1650.2	82.51	70-130
40	2,4,5-Trichlorphen	2000.0	1772.9	88.64	70-130
49	2,6-Bis(tertbutyl)	2000.0	1493.3	74.67	70-130
47	Acenaphthene	2000.0	1715.0	85.75	49-102
53	2,4-Dinitrotoluene	2000.0	1943.5	97.18	60-99
70	Di-n-butylphthalat	2000.0	2173.2	108.66	70-130
71	Fluoranthene	2000.0	2220.7	111.04	70-130
72	Pyrene	2000.0	2130.8	106.54*	63-106
74	Butylbenzylphthala	2000.0	2104.2	105.21	70-130
75	bis(2-Ethylhexyl)p	2000.0	2291.4	114.57	70-130
76	Benzo(a)anthracene	2000.0	2204.7	110.24	70-130
78	Chrysene	2000.0	2135.5	106.78	70-130
79	Di-n-octylphthalat	2000.0	2201.2	110.06	70-130
80	Benzo(b)fluoranthe	2000.0	2265.9	113.29	70-130
81	Benzo(k)fluoranthe	2000.0	2186.8	109.34	70-130
82	Benzo(a)pyrene	2000.0	2151.2	107.56	70-130
84	Indeno(1,2,3-cd)py	2000.0	2046.3	102.32	70-130
85	Dibenzo(a,h)anthra	2000.0	2089.1	104.45	70-130

31704

Data File: 11112808LCS.D
Report Date: 01-Dec-2011 11:14

WSCF

RECOVERY REPORT

Client Name: CHG
Sample Matrix: SOLID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: Vadose_CSTM_Sol.spk
Sublist File: NTC+TC.sub
Method File: \\APWSCF02\SLab\chem\tuvok.i\2011\111128_CFarm.B\TCNTC111118.m
Misc Info: Added 2.5ul Int.Std. HNF-N-1895-125.05

Client SDG: 20111362SV
Fraction: SV
Client Smp ID: LCS
Operator: cjo
SampleType: LCS
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	4000.0	2964.7	74.12	42-99
$ 10 Phenol-d6	4000.0	3207.5	80.19	45-103
$ 24 Nitrobenzene-d5	2000.0	1669.6	83.48	44-100
$ 41 2-Fluorobiphenyl	2000.0	1652.1	82.60	48-108
$ 62 2,4,6-Tribromophen	4000.0	3949.9	98.75	49-111
$ 73 Terphenyl-d14	2000.0	2130.5	106.52	55-122

Attachment 5

TIC Report

18-Jan-2012 12:5656
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C Farm 2011-C8102
Data Summary and Opportunistic Analyte Results

Sample Group: 20110763

Core Number: C8102

Customer Sample ID: B2B1L9

Sample Depth: Surface Dup

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V004745		O		3-Buten-2-one, 3-methy	814-78-8	3.14	ug/kg	250	JN
S11V004745		O		1-Eicosene	3452-07-1	18.56	ug/kg	230	JN

NA = Not Analyzed, ND = Not Detectec

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

C Farm 2011-C8102
Data Summary and Opportunistic Analyte Results

Sample Group: 20110763

Core Number: C8102

Customer Sample ID: B2D1X4

Sample Depth: 11.5'-15.5'

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V004823	O		Unknown-1		20.22	ug/kg	200	J
S11V004823	O		Unknown-2		20.33	ug/kg	270	J
S11V004823	O		Phthalic acid, bis(7-m	20548-62-3	20.41	ug/kg	220	JN

NA = Not Analyzed, ND = Not Detectec

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

C Farm 2011-C8102
Data Summary and Opportunistic Analyte Results

Sample Group: 20110763

Core Number: C8102

Customer Sample ID: B2D1X8

Sample Depth: 155'-157'

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V004926	O		Heptane	142-82-5	3.34	ug/kg	210	BJN
S11V004926	O	BLNK	Heptane	142-82-5	3.34	ug/kg	320	

NA = Not Analyzed, ND = Not Detectec

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

C Farm 2011-C8102
Data Summary and Opportunistic Analyte Results

Sample Group: 20110763

Core Number: C8102

Customer Sample ID: B2D1X9

Sample Depth: 188'-190'

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V004944	O		Heptane	142-82-5	3.35	ug/kg	250	BJN
S11V004944	O	BLNK	Heptane	142-82-5	3.34	ug/kg	320	

NA = Not Analyzed, ND = Not Detectec

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

C Farm 2011-C8102
Data Summary and Opportunistic Analyte Results

Sample Group: 20110763

Core Number: C8102

Customer Sample ID: B2D1Y0

Sample Depth: 221'-223'

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V004962	O		Heptane	142-82-5	3.35	ug/kg	340	BJN
S11V004962	O	BLNK	Heptane	142-82-5	3.34	ug/kg	320	

NA = Not Analyzed, ND = Not Detectec

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

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DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2011-C8104
Data Summary and Opportunistic Analyte Results

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags

NA = Not Analyzed, ND = Not Detectec

C Farm WMC 2011-C8106
Data Summary and Opportunistic Analyte Results

Sample Group: 20111362

Core Number: C8106

Customer Sample ID: B2FPR7

Sample Depth: Surface

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V006144	O		1,2-Benzenedicarboxyli	84-69-5	14.71	ug/kg	330	BJN
S11V006144	O		Unknown	None	18.55	ug/kg	530	BJN
S11V006144	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.71	ug/kg	510	
S11V006144	O	BLNK	Unknown	None	18.55	ug/kg	250	

NA = Not Analyzed, ND = Not Detectec

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

C Farm WMC 2011-C8106
Data Summary and Opportunistic Analyte Results

Sample Group: 20111362

Core Number: C8106

Customer Sample ID: B2FPR8

Sample Depth: Surface Dup

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V006147	O		1,2-Benzenedicarboxyli	84-64-0	14.71	ug/kg	970	JN
S11V006147	O		Unknown Phthalate	None	15.36	ug/kg	300	J
S11V006147	O		Unknown	None	18.55	ug/kg	480	BJ
S11V006147	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.71	ug/kg	510	
S11V006147	O	BLNK	Unknown	None	18.55	ug/kg	250	

NA = Not Analyzed, ND = Not Detectec

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

C Farm WMC 2011-C8106
Data Summary and Opportunistic Analyte Results

Sample Group: 20111362

Core Number: C8106

Customer Sample ID: B2FYM3

Sample Depth: 11'- 13'

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V006150	O		1,2-Benzenedicarboxyli	84-69-5	14.77	ug/kg	470	BJN
S11V006150	O		Unknown-1		15.43	ug/kg	240	J
S11V006150	O		1-Docosene	1599-67-3	18.63	ug/kg	340	BJN
S11V006150	O	BLNK	Unknown-1		2.62	ug/kg	500	
S11V006150	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.78	ug/kg	330	
S11V006150	O	BLNK	1-Docosene	1599-67-3	18.64	ug/kg	200	

NA = Not Analyzed, ND = Not Detectec

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

C Farm WMC 2011-C8106
Data Summary and Opportunistic Analyte Results

Sample Group: 20111362

Core Number: C8106

Customer Sample ID: B2FYM4

Sample Depth: 19'- 21'

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V006153	O		1,2-Benzenedicarboxyli	84-69-5	14.71	ug/kg	430	BJN
S11V006153	O		Unknown	None	18.55	ug/kg	350	BJ
S11V006153	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.71	ug/kg	510	
S11V006153	O	BLNK	Unknown	None	18.55	ug/kg	250	

NA = Not Analyzed, ND = Not Detectec

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

C Farm WMC 2011-C8106
Data Summary and Opportunistic Analyte Results

Sample Group: 20111362

Core Number: C8106

Customer Sample ID: B2FYM5

Sample Depth: 27'- 29'

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V006156	O		1,2-Benzenedicarboxyli	4376-20-9	14.71	ug/kg	450	JN
S11V006156	O		Uknown	None	18.55	ug/kg	460	BJ
S11V006156	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.71	ug/kg	510	
S11V006156	O	BLNK	Unknown	None	18.55	ug/kg	250	

NA = Not Analyzed, ND = Not Detectec

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

C Farm WMC 2011-C8106
Data Summary and Opportunistic Analyte Results

Sample Group: 20111362

Core Number: C8106

Customer Sample ID: B2FYM6

Sample Depth: 64'- 66'

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V006159	O		Unknown-1		2.62	ug/kg	340	BJ
S11V006159	O	BLNK	Unknown-1		2.62	ug/kg	500	
S11V006159	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.78	ug/kg	330	
S11V006159	O	BLNK	1-Docosene	1599-67-3	18.64	ug/kg	200	

NA = Not Analyzed, ND = Not Detectec

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

C Farm WMC 2011-C8106
Data Summary and Opportunistic Analyte Results

Sample Group: 20111362

Core Number: C8106

Customer Sample ID: B2FYM7

Sample Depth: 90'- 92'

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V006162	O		1,2-Benzenedicarboxyli	84-69-5	14.78	ug/kg	1.1E+03	BJ
S11V006162	O		1-Docosene	1599-67-3	18.64	ug/kg	580	BJN
S11V006162	O	BLNK	Unknown-1		2.62	ug/kg	500	
S11V006162	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.78	ug/kg	330	
S11V006162	O	BLNK	1-Docosene	1599-67-3	18.64	ug/kg	200	

NA = Not Analyzed, ND = Not Detectec

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

C Farm WMC 2011-C8106
Data Summary and Opportunistic Analyte Results

Sample Group: 20111362

Core Number: C8106

Customer Sample ID: B2FYM8

Sample Depth: 132'- 134'

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V006165	O		1,2-Benzenedicarboxyli	84-69-5	14.78	ug/kg	600	BJN
S11V006165	O		Hexanedioic acid, bis(	103-23-1	18.04	ug/kg	240	JN
S11V006165	O		1-Docosene	1599-67-3	18.64	ug/kg	510	BJN
S11V006165	O		Unknown Phthalate #1-1		20.26	ug/kg	210	J
S11V006165	O		Unknown-2		20.33	ug/kg	330	J
S11V006165	O		Unknown Phthalate #2-3		20.45	ug/kg	350	J
S11V006165	O		Phthalic acid, bis(7-m	20548-62-3	20.53	ug/kg	250	JN
S11V006165	O		Unknown-4		20.63	ug/kg	290	J
S11V006165	O		Unknown-5		20.71	ug/kg	260	J
S11V006165	O		Unknown-6		20.81	ug/kg	550	J
S11V006165	O		Unknown-7		20.89	ug/kg	330	J
S11V006165	O		Unknown-8		21.01	ug/kg	240	J
S11V006165	O	BLNK	Unknown-1		2.62	ug/kg	500	
S11V006165	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.78	ug/kg	330	
S11V006165	O	BLNK	1-Docosene	1599-67-3	18.64	ug/kg	200	

NA = Not Analyzed, ND = Not Detectec

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

C Farm WMC 2011-C8106
Data Summary and Opportunistic Analyte Results

Sample Group: 20111362

Core Number: C8106

Customer Sample ID: B2FYM9

Sample Depth: 161.5'- 163.5'

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S11V006168		O	BLNK	Oxime-, methoxy-phenyl	1000222-86-6	5.49	ug/kg	240	

NA = Not Analyzed, ND = Not Detectec

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

Attachment 6

ANALYTICAL BATCH AND LABORATORY SAMPLE ID INDEX

Sample/Batch Index

METHOD	BATCH	SAMPLE	MATRIX	
AMERICIUM	00029111	S11V005012	LIQUID	**Sample Group: 20111028**
AMERICIUM	00030428	S11V004751	SOLID	**Sample Group: 20110763**
AMERICIUM	00030428	S11V004791	SOLID	**Sample Group: 20110763**
AMERICIUM	00030428	S11V004829	SOLID	**Sample Group: 20110763**
AMERICIUM	00030428	S11V004847	SOLID	**Sample Group: 20110763**
AMERICIUM	00030428	S11V004865	SOLID	**Sample Group: 20110763**
AMERICIUM	00030428	S11V004914	SOLID	**Sample Group: 20110763**
AMERICIUM	00030428	S11V004932	SOLID	**Sample Group: 20110763**
AMERICIUM	00030428	S11V004968	SOLID	**Sample Group: 20110763**
AMERICIUM	00031535	S11V005066	SOLID	**Sample Group: 20111030**
AMERICIUM	00031535	S11V005106	SOLID	**Sample Group: 20111030**
AMERICIUM	00031535	S11V005124	SOLID	**Sample Group: 20111030**
AMERICIUM	00031535	S11V005142	SOLID	**Sample Group: 20111030**
AMERICIUM	00031535	S11V005160	SOLID	**Sample Group: 20111030**
AMERICIUM	00031535	S11V005178	SOLID	**Sample Group: 20111030**
AMERICIUM	00031535	S11V005196	SOLID	**Sample Group: 20111030**
AMERICIUM	00031721	S11V004718	LIQUID	**Sample Group: 20110761**
AMERICIUM	00031888	S11V004734	SOLID	**Sample Group: 20110763**
AMERICIUM	00031888	S11V004950	SOLID	**Sample Group: 20110763**
AMERICIUM	00031888	S11V005460	SOLID	**Sample Group: 20111030**
AMERICIUM	00031888	S11V005476	SOLID	**Sample Group: 20111030**
AMERICIUM	00032786	S11V005865	SOLID	**Sample Group: 20111362**
AMERICIUM	00032786	S11V005879	SOLID	**Sample Group: 20111362**
AMERICIUM	00032786	S11V005898	SOLID	**Sample Group: 20111362**
AMERICIUM	00032786	S11V005917	SOLID	**Sample Group: 20111362**
AMERICIUM	00032786	S11V005936	SOLID	**Sample Group: 20111362**
AMERICIUM	00032786	S11V005955	SOLID	**Sample Group: 20111362**
AMERICIUM	00032786	S11V005974	SOLID	**Sample Group: 20111362**
AMERICIUM	00032786	S11V006012	SOLID	**Sample Group: 20111362**
AMERICIUM	00033017	S11V005993	SOLID	**Sample Group: 20111362**
CARBON-14	00028666	S11V004717	LIQUID	**Sample Group: 20110761**
CARBON-14	00029578	S11V005011	LIQUID	**Sample Group: 20111028**
CARBON-14	00030645	S11V004733	SOLID	**Sample Group: 20110763**
CARBON-14	00030645	S11V004750	SOLID	**Sample Group: 20110763**
CARBON-14	00030645	S11V004790	SOLID	**Sample Group: 20110763**
CARBON-14	00030645	S11V004828	SOLID	**Sample Group: 20110763**
CARBON-14	00030645	S11V004846	SOLID	**Sample Group: 20110763**
CARBON-14	00030645	S11V004864	SOLID	**Sample Group: 20110763**
CARBON-14	00030645	S11V004913	SOLID	**Sample Group: 20110763**
CARBON-14	00030645	S11V004931	SOLID	**Sample Group: 20110763**
CARBON-14	00030645	S11V004949	SOLID	**Sample Group: 20110763**
CARBON-14	00030645	S11V004967	SOLID	**Sample Group: 20110763**
CARBON-14	00031958	S11V005065	SOLID	**Sample Group: 20111030**
CARBON-14	00031958	S11V005105	SOLID	**Sample Group: 20111030**
CARBON-14	00031958	S11V005123	SOLID	**Sample Group: 20111030**
CARBON-14	00031958	S11V005141	SOLID	**Sample Group: 20111030**
CARBON-14	00031958	S11V005159	SOLID	**Sample Group: 20111030**
CARBON-14	00031958	S11V005177	SOLID	**Sample Group: 20111030**
CARBON-14	00031958	S11V005195	SOLID	**Sample Group: 20111030**
CARBON-14	00031958	S11V005459	SOLID	**Sample Group: 20111030**
CARBON-14	00031958	S11V005475	SOLID	**Sample Group: 20111030**
CARBON-14	00031993	S11V005864	SOLID	**Sample Group: 20111362**
CARBON-14	00031993	S11V005897	SOLID	**Sample Group: 20111362**
CARBON-14	00031993	S11V005916	SOLID	**Sample Group: 20111362**
CARBON-14	00031993	S11V005935	SOLID	**Sample Group: 20111362**
CARBON-14	00031993	S11V005973	SOLID	**Sample Group: 20111362**
CARBON-14	00031993	S11V005992	SOLID	**Sample Group: 20111362**
CARBON-14	00031993	S11V006011	SOLID	**Sample Group: 20111362**
CARBON-14	00032088	S11V005878	SOLID	**Sample Group: 20111362**
CARBON-14	00032088	S11V005954	SOLID	**Sample Group: 20111362**

METHOD	BATCH	SAMPLE	MATRIX	
CN - EDTA	00028278	S11V004723	SOLID	**Sample Group: 20110763**
CN - EDTA	00028278	S11V004739	SOLID	**Sample Group: 20110763**
CN - EDTA	00028278	S11V004779	SOLID	**Sample Group: 20110763**
CN - EDTA	00028278	S11V004819	SOLID	**Sample Group: 20110763**
CN - EDTA	00028499	S11V004837	SOLID	**Sample Group: 20110763**
CN - EDTA	00028499	S11V004855	SOLID	**Sample Group: 20110763**
CN - EDTA	00028499	S11V004904	SOLID	**Sample Group: 20110763**
CN - EDTA	00028678	S11V004922	SOLID	**Sample Group: 20110763**
CN - EDTA	00028678	S11V004940	SOLID	**Sample Group: 20110763**
CN - EDTA	00028678	S11V004958	SOLID	**Sample Group: 20110763**
CN - EDTA	00031129	S11V005857	SOLID	**Sample Group: 20111362**
CN - EDTA	00031129	S11V005871	SOLID	**Sample Group: 20111362**
CN - EDTA	00031177	S11V005890	SOLID	**Sample Group: 20111362**
CN - EDTA	00031177	S11V005909	SOLID	**Sample Group: 20111362**
CN - EDTA	00031177	S11V005928	SOLID	**Sample Group: 20111362**
CN - EDTA	00031475	S11V005947	SOLID	**Sample Group: 20111362**
CN - EDTA	00031475	S11V005985	SOLID	**Sample Group: 20111362**
CN - EDTA	00031475	S11V006004	SOLID	**Sample Group: 20111362**
CN - EDTA	00032091	S11V005966	SOLID	**Sample Group: 20111362**
CN - WATER DISTILLATION	00028519	S11V004720	LIQUID	**Sample Group: 20110761**
CN - WATER DISTILLATION	00029713	S11V005014	LIQUID	**Sample Group: 20111028**
CONDUCTIVITY	00029062	S11V004725	SOLID	**Sample Group: 20110763**
CONDUCTIVITY	00029062	S11V004742	SOLID	**Sample Group: 20110763**
CONDUCTIVITY	00029062	S11V004782	SOLID	**Sample Group: 20110763**
CONDUCTIVITY	00029062	S11V004821	SOLID	**Sample Group: 20110763**
CONDUCTIVITY	00029062	S11V004839	SOLID	**Sample Group: 20110763**
CONDUCTIVITY	00029062	S11V004857	SOLID	**Sample Group: 20110763**
CONDUCTIVITY	00029062	S11V004906	SOLID	**Sample Group: 20110763**
CONDUCTIVITY	00029062	S11V004924	SOLID	**Sample Group: 20110763**
CONDUCTIVITY	00029062	S11V004942	SOLID	**Sample Group: 20110763**
CONDUCTIVITY	00029062	S11V004960	SOLID	**Sample Group: 20110763**
CONDUCTIVITY	00031567	S11V006146	SOLID	**Sample Group: 20111362**
CONDUCTIVITY	00031567	S11V006149	SOLID	**Sample Group: 20111362**
CONDUCTIVITY	00031567	S11V006152	SOLID	**Sample Group: 20111362**
CONDUCTIVITY	00031567	S11V006155	SOLID	**Sample Group: 20111362**
CONDUCTIVITY	00031567	S11V006158	SOLID	**Sample Group: 20111362**
CONDUCTIVITY	00031567	S11V006161	SOLID	**Sample Group: 20111362**
CONDUCTIVITY	00031567	S11V006164	SOLID	**Sample Group: 20111362**
CONDUCTIVITY	00031567	S11V006167	SOLID	**Sample Group: 20111362**
CONDUCTIVITY	00031567	S11V006170	SOLID	**Sample Group: 20111362**
GEA	00028430	S11V004724	SOLID	**Sample Group: 20110763**
GEA	00028430	S11V004740	SOLID	**Sample Group: 20110763**
GEA	00028430	S11V004780	SOLID	**Sample Group: 20110763**
GEA	00028430	S11V004820	SOLID	**Sample Group: 20110763**
GEA	00028430	S11V004838	SOLID	**Sample Group: 20110763**
GEA	00028430	S11V004856	SOLID	**Sample Group: 20110763**
GEA	00028514	S11V004718	LIQUID	**Sample Group: 20110761**
GEA	00028853	S11V004905	SOLID	**Sample Group: 20110763**
GEA	00028853	S11V004923	SOLID	**Sample Group: 20110763**
GEA	00028853	S11V004941	SOLID	**Sample Group: 20110763**
GEA	00028853	S11V004959	SOLID	**Sample Group: 20110763**
GEA	00029023	S11V005012	LIQUID	**Sample Group: 20111028**
GEA	00030870	S11V005056	SOLID	**Sample Group: 20111030**
GEA	00030870	S11V005096	SOLID	**Sample Group: 20111030**
GEA	00030870	S11V005115	SOLID	**Sample Group: 20111030**
GEA	00030870	S11V005133	SOLID	**Sample Group: 20111030**
GEA	00030870	S11V005151	SOLID	**Sample Group: 20111030**
GEA	00030870	S11V005169	SOLID	**Sample Group: 20111030**
GEA	00030870	S11V005187	SOLID	**Sample Group: 20111030**
GEA	00030870	S11V005450	SOLID	**Sample Group: 20111030**
GEA	00030870	S11V005466	SOLID	**Sample Group: 20111030**

METHOD	BATCH	SAMPLE	MATRIX	
GEA	00031523	S11V005858	SOLID	**Sample Group: 20111362**
GEA	00031523	S11V005872	SOLID	**Sample Group: 20111362**
GEA	00031523	S11V005891	SOLID	**Sample Group: 20111362**
GEA	00031523	S11V005910	SOLID	**Sample Group: 20111362**
GEA	00031523	S11V005929	SOLID	**Sample Group: 20111362**
GEA	00031523	S11V005948	SOLID	**Sample Group: 20111362**
GEA	00031523	S11V005967	SOLID	**Sample Group: 20111362**
GEA	00031523	S11V005986	SOLID	**Sample Group: 20111362**
GEA	00031523	S11V006005	SOLID	**Sample Group: 20111362**
HG	00028501	S11V004723	SOLID	**Sample Group: 20110763**
HG	00028501	S11V004739	SOLID	**Sample Group: 20110763**
HG	00028501	S11V004779	SOLID	**Sample Group: 20110763**
HG	00028501	S11V004819	SOLID	**Sample Group: 20110763**
HG	00028501	S11V004837	SOLID	**Sample Group: 20110763**
HG	00028501	S11V004855	SOLID	**Sample Group: 20110763**
HG	00028501	S11V004904	SOLID	**Sample Group: 20110763**
HG	00028924	S11V004716	LIQUID	**Sample Group: 20110761**
HG	00028925	S11V004922	SOLID	**Sample Group: 20110763**
HG	00028925	S11V004940	SOLID	**Sample Group: 20110763**
HG	00028925	S11V004958	SOLID	**Sample Group: 20110763**
HG	00030413	S11V005010	LIQUID	**Sample Group: 20111028**
HG	00031146	S11V005857	SOLID	**Sample Group: 20111362**
HG	00031146	S11V005871	SOLID	**Sample Group: 20111362**
HG	00031146	S11V005890	SOLID	**Sample Group: 20111362**
HG	00031146	S11V005909	SOLID	**Sample Group: 20111362**
HG	00031146	S11V005928	SOLID	**Sample Group: 20111362**
HG	00031793	S11V005947	SOLID	**Sample Group: 20111362**
HG	00031793	S11V005966	SOLID	**Sample Group: 20111362**
HG	00031793	S11V005985	SOLID	**Sample Group: 20111362**
HG	00031793	S11V006004	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00028516	S11V004719	LIQUID	**Sample Group: 20110761**
IC - ANIONS/SMALL ORG. ACIDS	00028998	S11V005013	LIQUID	**Sample Group: 20111028**
IC - ANIONS/SMALL ORG. ACIDS	00029040	S11V004729	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029040	S11V004746	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029040	S11V004786	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029040	S11V004824	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029040	S11V004842	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029040	S11V004860	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029040	S11V004909	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029040	S11V004927	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029040	S11V004945	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029040	S11V004963	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029701	S11V004729	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029701	S11V004746	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029701	S11V004786	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029701	S11V004824	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029701	S11V004842	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029701	S11V004860	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029701	S11V004909	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029701	S11V004927	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029701	S11V004945	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00029701	S11V004963	SOLID	**Sample Group: 20110763**
IC - ANIONS/SMALL ORG. ACIDS	00030862	S11V005061	SOLID	**Sample Group: 20111030**
IC - ANIONS/SMALL ORG. ACIDS	00030862	S11V005101	SOLID	**Sample Group: 20111030**
IC - ANIONS/SMALL ORG. ACIDS	00030862	S11V005119	SOLID	**Sample Group: 20111030**
IC - ANIONS/SMALL ORG. ACIDS	00030862	S11V005137	SOLID	**Sample Group: 20111030**
IC - ANIONS/SMALL ORG. ACIDS	00030862	S11V005155	SOLID	**Sample Group: 20111030**
IC - ANIONS/SMALL ORG. ACIDS	00030862	S11V005173	SOLID	**Sample Group: 20111030**
IC - ANIONS/SMALL ORG. ACIDS	00030862	S11V005191	SOLID	**Sample Group: 20111030**
IC - ANIONS/SMALL ORG. ACIDS	00030862	S11V005455	SOLID	**Sample Group: 20111030**
IC - ANIONS/SMALL ORG. ACIDS	00030862	S11V005471	SOLID	**Sample Group: 20111030**

METHOD	BATCH	SAMPLE	MATRIX	
IC - ANIONS/SMALL ORG. ACIDS	00031809	S11V005951	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00031809	S11V005970	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00031809	S11V005989	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00031809	S11V006008	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00031881	S11V005861	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00031881	S11V005875	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00031881	S11V005894	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00031881	S11V005913	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00031881	S11V005932	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00032235	S11V005951	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00032235	S11V005970	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00032235	S11V005989	SOLID	**Sample Group: 20111362**
IC - ANIONS/SMALL ORG. ACIDS	00032235	S11V006008	SOLID	**Sample Group: 20111362**
IC - NH4	00028126	S11V004731	SOLID	**Sample Group: 20110763**
IC - NH4	00028126	S11V004748	SOLID	**Sample Group: 20110763**
IC - NH4	00028248	S11V004788	SOLID	**Sample Group: 20110763**
IC - NH4	00028248	S11V004826	SOLID	**Sample Group: 20110763**
IC - NH4	00028324	S11V004844	SOLID	**Sample Group: 20110763**
IC - NH4	00028396	S11V004862	SOLID	**Sample Group: 20110763**
IC - NH4	00028554	S11V004721	LIQUID	**Sample Group: 20110761**
IC - NH4	00028559	S11V004911	SOLID	**Sample Group: 20110763**
IC - NH4	00028559	S11V004929	SOLID	**Sample Group: 20110763**
IC - NH4	00028656	S11V004947	SOLID	**Sample Group: 20110763**
IC - NH4	00028656	S11V004965	SOLID	**Sample Group: 20110763**
IC - NH4	00029020	S11V005015	LIQUID	**Sample Group: 20111028**
IC - NH4	00030978	S11V006145	SOLID	**Sample Group: 20111362**
IC - NH4	00030978	S11V006148	SOLID	**Sample Group: 20111362**
IC - NH4	00031053	S11V006151	SOLID	**Sample Group: 20111362**
IC - NH4	00031053	S11V006154	SOLID	**Sample Group: 20111362**
IC - NH4	00031053	S11V006157	SOLID	**Sample Group: 20111362**
IC - NH4	00031341	S11V006160	SOLID	**Sample Group: 20111362**
IC - NH4	00031341	S11V006163	SOLID	**Sample Group: 20111362**
IC - NH4	00031341	S11V006166	SOLID	**Sample Group: 20111362**
IC - NH4	00031412	S11V006169	SOLID	**Sample Group: 20111362**
ICP-TOTAL METALS	00030224	S11V004716	LIQUID	**Sample Group: 20110761**
ICP-TOTAL METALS	00030224	S11V005010	LIQUID	**Sample Group: 20111028**
ICP-TOTAL METALS	00030468	S11V004730	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030468	S11V004747	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030468	S11V004787	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030468	S11V004825	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030468	S11V004843	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030468	S11V004861	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030468	S11V004910	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030468	S11V004928	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030468	S11V004946	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030468	S11V004964	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030783	S11V004730	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030783	S11V004747	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030783	S11V004787	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030783	S11V004825	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030783	S11V004843	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030783	S11V004861	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030783	S11V004910	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030783	S11V004928	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030783	S11V004946	SOLID	**Sample Group: 20110763**
ICP-TOTAL METALS	00030783	S11V004964	SOLID	**Sample Group: 20110763**

METHOD	BATCH	SAMPLE	MATRIX	
ICP-TOTAL METALS	00031804	S11V005062	SOLID	**Sample Group: 20111030**
ICP-TOTAL METALS	00031804	S11V005102	SOLID	**Sample Group: 20111030**
ICP-TOTAL METALS	00031804	S11V005120	SOLID	**Sample Group: 20111030**
ICP-TOTAL METALS	00031804	S11V005138	SOLID	**Sample Group: 20111030**
ICP-TOTAL METALS	00031804	S11V005156	SOLID	**Sample Group: 20111030**
ICP-TOTAL METALS	00031804	S11V005174	SOLID	**Sample Group: 20111030**
ICP-TOTAL METALS	00031804	S11V005192	SOLID	**Sample Group: 20111030**
ICP-TOTAL METALS	00031804	S11V005456	SOLID	**Sample Group: 20111030**
ICP-TOTAL METALS	00031804	S11V005472	SOLID	**Sample Group: 20111030**
ICP-TOTAL METALS	00031996	S11V005862	SOLID	**Sample Group: 20111362**
ICP-TOTAL METALS	00031996	S11V005876	SOLID	**Sample Group: 20111362**
ICP-TOTAL METALS	00031996	S11V005895	SOLID	**Sample Group: 20111362**
ICP-TOTAL METALS	00031996	S11V005914	SOLID	**Sample Group: 20111362**
ICP-TOTAL METALS	00031996	S11V005933	SOLID	**Sample Group: 20111362**
ICP-TOTAL METALS	00031996	S11V005952	SOLID	**Sample Group: 20111362**
ICP-TOTAL METALS	00031996	S11V005971	SOLID	**Sample Group: 20111362**
ICP-TOTAL METALS	00031996	S11V005990	SOLID	**Sample Group: 20111362**
ICP-TOTAL METALS	00031996	S11V006009	SOLID	**Sample Group: 20111362**
IODINE-129 in SOIL	00028714	S11V004717	LIQUID	**Sample Group: 20110761**
IODINE-129 in SOIL	00029687	S11V005011	LIQUID	**Sample Group: 20111028**
IODINE-129 in SOIL	00030367	S11V004724	SOLID	**Sample Group: 20110763**
IODINE-129 in SOIL	00030367	S11V004740	SOLID	**Sample Group: 20110763**
IODINE-129 in SOIL	00030367	S11V004780	SOLID	**Sample Group: 20110763**
IODINE-129 in SOIL	00030367	S11V004820	SOLID	**Sample Group: 20110763**
IODINE-129 in SOIL	00030367	S11V004838	SOLID	**Sample Group: 20110763**
IODINE-129 in SOIL	00030367	S11V004856	SOLID	**Sample Group: 20110763**
IODINE-129 in SOIL	00030367	S11V004905	SOLID	**Sample Group: 20110763**
IODINE-129 in SOIL	00030367	S11V004923	SOLID	**Sample Group: 20110763**
IODINE-129 in SOIL	00030367	S11V004941	SOLID	**Sample Group: 20110763**
IODINE-129 in SOIL	00030367	S11V004959	SOLID	**Sample Group: 20110763**
IODINE-129 in SOIL	00031837	S11V005056	SOLID	**Sample Group: 20111030**
IODINE-129 in SOIL	00031837	S11V005096	SOLID	**Sample Group: 20111030**
IODINE-129 in SOIL	00031837	S11V005115	SOLID	**Sample Group: 20111030**
IODINE-129 in SOIL	00031837	S11V005133	SOLID	**Sample Group: 20111030**
IODINE-129 in SOIL	00031837	S11V005151	SOLID	**Sample Group: 20111030**
IODINE-129 in SOIL	00031837	S11V005169	SOLID	**Sample Group: 20111030**
IODINE-129 in SOIL	00031837	S11V005187	SOLID	**Sample Group: 20111030**
IODINE-129 in SOIL	00031837	S11V005466	SOLID	**Sample Group: 20111030**
IODINE-129 in SOIL	00031959	S11V005858	SOLID	**Sample Group: 20111362**
IODINE-129 in SOIL	00031959	S11V005872	SOLID	**Sample Group: 20111362**
IODINE-129 in SOIL	00031959	S11V005891	SOLID	**Sample Group: 20111362**
IODINE-129 in SOIL	00031959	S11V005910	SOLID	**Sample Group: 20111362**
IODINE-129 in SOIL	00031959	S11V005929	SOLID	**Sample Group: 20111362**
IODINE-129 in SOIL	00031959	S11V005948	SOLID	**Sample Group: 20111362**
IODINE-129 in SOIL	00031959	S11V005967	SOLID	**Sample Group: 20111362**
IODINE-129 in SOIL	00031959	S11V005986	SOLID	**Sample Group: 20111362**
IODINE-129 in SOIL	00031959	S11V006005	SOLID	**Sample Group: 20111362**
IODINE-129 in SOIL	00032280	S11V005450	SOLID	**Sample Group: 20111030**
MS ACTINIDES	00030006	S11V004716	LIQUID	**Sample Group: 20110761**
MS ACTINIDES	00030006	S11V005010	LIQUID	**Sample Group: 20111028**
MS ACTINIDES	00032364	S11V004730	SOLID	**Sample Group: 20110763**
MS ACTINIDES	00032364	S11V004747	SOLID	**Sample Group: 20110763**
MS ACTINIDES	00032364	S11V004787	SOLID	**Sample Group: 20110763**
MS ACTINIDES	00032364	S11V004825	SOLID	**Sample Group: 20110763**
MS ACTINIDES	00032364	S11V004843	SOLID	**Sample Group: 20110763**
MS ACTINIDES	00032364	S11V004861	SOLID	**Sample Group: 20110763**
MS ACTINIDES	00032364	S11V004910	SOLID	**Sample Group: 20110763**
MS ACTINIDES	00032364	S11V004928	SOLID	**Sample Group: 20110763**
MS ACTINIDES	00032364	S11V004946	SOLID	**Sample Group: 20110763**
MS ACTINIDES	00032364	S11V004964	SOLID	**Sample Group: 20110763**

METHOD	BATCH	SAMPLE	MATRIX	
MS ACTINIDES	00032373	S11V005062	SOLID	**Sample Group: 20111030**
MS ACTINIDES	00032373	S11V005102	SOLID	**Sample Group: 20111030**
MS ACTINIDES	00032373	S11V005120	SOLID	**Sample Group: 20111030**
MS ACTINIDES	00032373	S11V005138	SOLID	**Sample Group: 20111030**
MS ACTINIDES	00032373	S11V005156	SOLID	**Sample Group: 20111030**
MS ACTINIDES	00032373	S11V005174	SOLID	**Sample Group: 20111030**
MS ACTINIDES	00032373	S11V005192	SOLID	**Sample Group: 20111030**
MS ACTINIDES	00032373	S11V005456	SOLID	**Sample Group: 20111030**
MS ACTINIDES	00032373	S11V005472	SOLID	**Sample Group: 20111030**
MS ACTINIDES	00032708	S11V005862	SOLID	**Sample Group: 20111362**
MS ACTINIDES	00032708	S11V005876	SOLID	**Sample Group: 20111362**
MS ACTINIDES	00032708	S11V005895	SOLID	**Sample Group: 20111362**
MS ACTINIDES	00032708	S11V005914	SOLID	**Sample Group: 20111362**
MS ACTINIDES	00032708	S11V005933	SOLID	**Sample Group: 20111362**
MS ACTINIDES	00032708	S11V005952	SOLID	**Sample Group: 20111362**
MS ACTINIDES	00032708	S11V005971	SOLID	**Sample Group: 20111362**
MS ACTINIDES	00032708	S11V005990	SOLID	**Sample Group: 20111362**
MS ACTINIDES	00032708	S11V006009	SOLID	**Sample Group: 20111362**
MS ANTIMONY	00030084	S11V004727	SOLID	**Sample Group: 20110763**
MS ANTIMONY	00030084	S11V004744	SOLID	**Sample Group: 20110763**
MS ANTIMONY	00030084	S11V004784	SOLID	**Sample Group: 20110763**
MS ANTIMONY	00030084	S11V004822	SOLID	**Sample Group: 20110763**
MS ANTIMONY	00030084	S11V004840	SOLID	**Sample Group: 20110763**
MS ANTIMONY	00030084	S11V004858	SOLID	**Sample Group: 20110763**
MS ANTIMONY	00030084	S11V004907	SOLID	**Sample Group: 20110763**
MS ANTIMONY	00030084	S11V004925	SOLID	**Sample Group: 20110763**
MS ANTIMONY	00030084	S11V004943	SOLID	**Sample Group: 20110763**
MS ANTIMONY	00030084	S11V004961	SOLID	**Sample Group: 20110763**
MS ANTIMONY	00032578	S11V005059	SOLID	**Sample Group: 20111030**
MS ANTIMONY	00032578	S11V005099	SOLID	**Sample Group: 20111030**
MS ANTIMONY	00032578	S11V005117	SOLID	**Sample Group: 20111030**
MS ANTIMONY	00032578	S11V005135	SOLID	**Sample Group: 20111030**
MS ANTIMONY	00032578	S11V005153	SOLID	**Sample Group: 20111030**
MS ANTIMONY	00032578	S11V005171	SOLID	**Sample Group: 20111030**
MS ANTIMONY	00032578	S11V005189	SOLID	**Sample Group: 20111030**
MS ANTIMONY	00032578	S11V005453	SOLID	**Sample Group: 20111030**
MS ANTIMONY	00032578	S11V005469	SOLID	**Sample Group: 20111030**
MS ANTIMONY	00032723	S11V005950	SOLID	**Sample Group: 20111362**
MS ANTIMONY	00032723	S11V005969	SOLID	**Sample Group: 20111362**
MS ANTIMONY	00032723	S11V005988	SOLID	**Sample Group: 20111362**
MS ANTIMONY	00032723	S11V006007	SOLID	**Sample Group: 20111362**
MS ANTIMONY	00032724	S11V005860	SOLID	**Sample Group: 20111362**
MS ANTIMONY	00032724	S11V005874	SOLID	**Sample Group: 20111362**
MS ANTIMONY	00032724	S11V005893	SOLID	**Sample Group: 20111362**
MS ANTIMONY	00032724	S11V005912	SOLID	**Sample Group: 20111362**
MS ANTIMONY	00032724	S11V005931	SOLID	**Sample Group: 20111362**
MS ANTIMONY	00032945	S11V004716	LIQUID	**Sample Group: 20110761**
MS ANTIMONY	00032945	S11V005010	LIQUID	**Sample Group: 20111028**
MS METALS	00032130	S11V005062	SOLID	**Sample Group: 20111030**
MS METALS	00032130	S11V005102	SOLID	**Sample Group: 20111030**
MS METALS	00032130	S11V005120	SOLID	**Sample Group: 20111030**
MS METALS	00032130	S11V005138	SOLID	**Sample Group: 20111030**
MS METALS	00032130	S11V005156	SOLID	**Sample Group: 20111030**
MS METALS	00032130	S11V005174	SOLID	**Sample Group: 20111030**
MS METALS	00032130	S11V005192	SOLID	**Sample Group: 20111030**
MS METALS	00032130	S11V005456	SOLID	**Sample Group: 20111030**
MS METALS	00032130	S11V005472	SOLID	**Sample Group: 20111030**

METHOD	BATCH	SAMPLE	MATRIX	
MS METALS	00032368	S11V004730	SOLID	**Sample Group: 20110763**
MS METALS	00032368	S11V004747	SOLID	**Sample Group: 20110763**
MS METALS	00032368	S11V004787	SOLID	**Sample Group: 20110763**
MS METALS	00032368	S11V004825	SOLID	**Sample Group: 20110763**
MS METALS	00032368	S11V004843	SOLID	**Sample Group: 20110763**
MS METALS	00032368	S11V004861	SOLID	**Sample Group: 20110763**
MS METALS	00032368	S11V004910	SOLID	**Sample Group: 20110763**
MS METALS	00032368	S11V004928	SOLID	**Sample Group: 20110763**
MS METALS	00032368	S11V004946	SOLID	**Sample Group: 20110763**
MS METALS	00032368	S11V004964	SOLID	**Sample Group: 20110763**
MS METALS	00032689	S11V005862	SOLID	**Sample Group: 20111362**
MS METALS	00032689	S11V005876	SOLID	**Sample Group: 20111362**
MS METALS	00032689	S11V005895	SOLID	**Sample Group: 20111362**
MS METALS	00032689	S11V005914	SOLID	**Sample Group: 20111362**
MS METALS	00032689	S11V005933	SOLID	**Sample Group: 20111362**
MS METALS	00032689	S11V005952	SOLID	**Sample Group: 20111362**
MS METALS	00032689	S11V005971	SOLID	**Sample Group: 20111362**
MS METALS	00032689	S11V005990	SOLID	**Sample Group: 20111362**
MS METALS	00032689	S11V006009	SOLID	**Sample Group: 20111362**
MS METALS	00034910	S11V005862	SOLID	**Sample Group: 20111362**
MS METALS	00034910	S11V005876	SOLID	**Sample Group: 20111362**
MS METALS	00034910	S11V005895	SOLID	**Sample Group: 20111362**
MS METALS	00034910	S11V005914	SOLID	**Sample Group: 20111362**
MS METALS	00034910	S11V005933	SOLID	**Sample Group: 20111362**
MS METALS	00034910	S11V005952	SOLID	**Sample Group: 20111362**
MS METALS	00034910	S11V005971	SOLID	**Sample Group: 20111362**
MS METALS	00034910	S11V005990	SOLID	**Sample Group: 20111362**
MS METALS	00034910	S11V006009	SOLID	**Sample Group: 20111362**
MS METALS	00034232	S11V005062	SOLID	**Sample Group: 20111030**
MS METALS	00034232	S11V005102	SOLID	**Sample Group: 20111030**
MS METALS	00034232	S11V005120	SOLID	**Sample Group: 20111030**
MS METALS	00034232	S11V005138	SOLID	**Sample Group: 20111030**
MS METALS	00034232	S11V005156	SOLID	**Sample Group: 20111030**
MS METALS	00034232	S11V005174	SOLID	**Sample Group: 20111030**
MS METALS	00034232	S11V005192	SOLID	**Sample Group: 20111030**
MS METALS	00034232	S11V005456	SOLID	**Sample Group: 20111030**
MS METALS	00034232	S11V005472	SOLID	**Sample Group: 20111030**
MS TC-99	00029157	S11V004725	SOLID	**Sample Group: 20110763**
MS TC-99	00029157	S11V004742	SOLID	**Sample Group: 20110763**
MS TC-99	00029157	S11V004782	SOLID	**Sample Group: 20110763**
MS TC-99	00029157	S11V004821	SOLID	**Sample Group: 20110763**
MS TC-99	00029157	S11V004839	SOLID	**Sample Group: 20110763**
MS TC-99	00029157	S11V004857	SOLID	**Sample Group: 20110763**
MS TC-99	00029157	S11V004906	SOLID	**Sample Group: 20110763**
MS TC-99	00029157	S11V004924	SOLID	**Sample Group: 20110763**
MS TC-99	00029157	S11V004942	SOLID	**Sample Group: 20110763**
MS TC-99	00029157	S11V004960	SOLID	**Sample Group: 20110763**
MS TC-99	00030509	S11V004716	LIQUID	**Sample Group: 20110761**
MS TC-99	00030509	S11V005010	LIQUID	**Sample Group: 20111028**
MS TC-99	00032134	S11V004845	SOLID	**Sample Group: 20110763**

METHOD	BATCH	SAMPLE	MATRIX	
MS TC-99	00032192	S11V004732	SOLID	**Sample Group: 20110763**
MS TC-99	00032192	S11V004749	SOLID	**Sample Group: 20110763**
MS TC-99	00032192	S11V004789	SOLID	**Sample Group: 20110763**
MS TC-99	00032192	S11V004827	SOLID	**Sample Group: 20110763**
MS TC-99	00032192	S11V004863	SOLID	**Sample Group: 20110763**
MS TC-99	00032192	S11V004912	SOLID	**Sample Group: 20110763**
MS TC-99	00032192	S11V004930	SOLID	**Sample Group: 20110763**
MS TC-99	00032192	S11V004948	SOLID	**Sample Group: 20110763**
MS TC-99	00032192	S11V004966	SOLID	**Sample Group: 20110763**
MS TC-99	00032192	S11V005064	SOLID	**Sample Group: 20111030**
MS TC-99	00032192	S11V005104	SOLID	**Sample Group: 20111030**
MS TC-99	00032192	S11V005122	SOLID	**Sample Group: 20111030**
MS TC-99	00032192	S11V005140	SOLID	**Sample Group: 20111030**
MS TC-99	00032192	S11V005158	SOLID	**Sample Group: 20111030**
MS TC-99	00032192	S11V005176	SOLID	**Sample Group: 20111030**
MS TC-99	00032192	S11V005194	SOLID	**Sample Group: 20111030**
MS TC-99	00032192	S11V005458	SOLID	**Sample Group: 20111030**
MS TC-99	00032192	S11V005474	SOLID	**Sample Group: 20111030**
MS TC-99	00032562	S11V005863	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V005877	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V005896	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V005915	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V005934	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V005953	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V005972	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V005991	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V006010	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V006146	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V006149	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V006152	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V006155	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V006158	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V006161	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V006164	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V006167	SOLID	**Sample Group: 20111362**
MS TC-99	00032562	S11V006170	SOLID	**Sample Group: 20111362**
NICKEL-63	00028628	S11V004718	LIQUID	**Sample Group: 20110761**
NICKEL-63	00029585	S11V005012	LIQUID	**Sample Group: 20111028**
NICKEL-63	00031541	S11V005068	SOLID	**Sample Group: 20111030**
NICKEL-63	00031541	S11V005108	SOLID	**Sample Group: 20111030**
NICKEL-63	00031541	S11V005126	SOLID	**Sample Group: 20111030**
NICKEL-63	00031541	S11V005144	SOLID	**Sample Group: 20111030**
NICKEL-63	00031541	S11V005162	SOLID	**Sample Group: 20111030**
NICKEL-63	00031541	S11V005180	SOLID	**Sample Group: 20111030**
NICKEL-63	00031541	S11V005198	SOLID	**Sample Group: 20111030**
NICKEL-63	00031541	S11V005462	SOLID	**Sample Group: 20111030**
NICKEL-63	00031541	S11V005478	SOLID	**Sample Group: 20111030**
NICKEL-63	00031870	S11V004736	SOLID	**Sample Group: 20110763**
NICKEL-63	00031870	S11V004753	SOLID	**Sample Group: 20110763**
NICKEL-63	00031870	S11V004793	SOLID	**Sample Group: 20110763**
NICKEL-63	00031870	S11V004831	SOLID	**Sample Group: 20110763**
NICKEL-63	00031870	S11V004849	SOLID	**Sample Group: 20110763**
NICKEL-63	00031870	S11V004867	SOLID	**Sample Group: 20110763**
NICKEL-63	00031870	S11V004916	SOLID	**Sample Group: 20110763**
NICKEL-63	00031870	S11V004934	SOLID	**Sample Group: 20110763**
NICKEL-63	00031870	S11V004952	SOLID	**Sample Group: 20110763**
NICKEL-63	00031870	S11V004970	SOLID	**Sample Group: 20110763**

METHOD	BATCH	SAMPLE	MATRIX	
NICKEL-63	00031995	S11V005867	SOLID	**Sample Group: 20111362**
NICKEL-63	00031995	S11V005881	SOLID	**Sample Group: 20111362**
NICKEL-63	00031995	S11V005900	SOLID	**Sample Group: 20111362**
NICKEL-63	00031995	S11V005919	SOLID	**Sample Group: 20111362**
NICKEL-63	00031995	S11V005938	SOLID	**Sample Group: 20111362**
NICKEL-63	00031995	S11V005957	SOLID	**Sample Group: 20111362**
NICKEL-63	00031995	S11V005976	SOLID	**Sample Group: 20111362**
NICKEL-63	00031995	S11V005995	SOLID	**Sample Group: 20111362**
NICKEL-63	00031995	S11V006014	SOLID	**Sample Group: 20111362**
PCB 222S	00028686	S11V004715	LIQUID	**Sample Group: 20110761**
PCB 222S	00029561	S11V004726	SOLID	**Sample Group: 20110763**
PCB 222S	00029561	S11V004743	SOLID	**Sample Group: 20110763**
PCB 222S	00029561	S11V004783	SOLID	**Sample Group: 20110763**
PCB 222S	00029561	S11V004803	SOLID	**Sample Group: 20110763**
PCB 222S	00029825	S11V005009	LIQUID	**Sample Group: 20111028**
PCB 222S	00030858	S11V005058	SOLID	**Sample Group: 20111030**
PCB 222S	00030858	S11V005098	SOLID	**Sample Group: 20111030**
PCB 222S	00030858	S11V005116	SOLID	**Sample Group: 20111030**
PCB 222S	00030858	S11V005452	SOLID	**Sample Group: 20111030**
PCB 222S	00030858	S11V005468	SOLID	**Sample Group: 20111030**
PCB 222S	00031748	S11V005859	SOLID	**Sample Group: 20111362**
PCB 222S	00031748	S11V005873	SOLID	**Sample Group: 20111362**
PCB 222S	00031748	S11V005892	SOLID	**Sample Group: 20111362**
PCB 222S	00031748	S11V005911	SOLID	**Sample Group: 20111362**
PCB 222S	00031748	S11V005930	SOLID	**Sample Group: 20111362**
PCB 222S	00031748	S11V005968	SOLID	**Sample Group: 20111362**
PH LIQUID	00028509	S11V004719	LIQUID	**Sample Group: 20110761**
PH LIQUID	00029085	S11V005013	LIQUID	**Sample Group: 20111028**
PH SOLID	00028127	S11V004723	SOLID	**Sample Group: 20110763**
PH SOLID	00028127	S11V004739	SOLID	**Sample Group: 20110763**
PH SOLID	00028292	S11V004779	SOLID	**Sample Group: 20110763**
PH SOLID	00028292	S11V004819	SOLID	**Sample Group: 20110763**
PH SOLID	00028322	S11V004837	SOLID	**Sample Group: 20110763**
PH SOLID	00028394	S11V004855	SOLID	**Sample Group: 20110763**
PH SOLID	00028461	S11V004904	SOLID	**Sample Group: 20110763**
PH SOLID	00028537	S11V004922	SOLID	**Sample Group: 20110763**
PH SOLID	00028626	S11V004940	SOLID	**Sample Group: 20110763**
PH SOLID	00028626	S11V004958	SOLID	**Sample Group: 20110763**
PH SOLID	00030905	S11V005857	SOLID	**Sample Group: 20111362**
PH SOLID	00030905	S11V005871	SOLID	**Sample Group: 20111362**
PH SOLID	00031011	S11V005890	SOLID	**Sample Group: 20111362**
PH SOLID	00031011	S11V005909	SOLID	**Sample Group: 20111362**
PH SOLID	00031011	S11V005928	SOLID	**Sample Group: 20111362**
PH SOLID	00031426	S11V005947	SOLID	**Sample Group: 20111362**
PH SOLID	00031426	S11V005966	SOLID	**Sample Group: 20111362**
PH SOLID	00031426	S11V005985	SOLID	**Sample Group: 20111362**
PH SOLID	00031426	S11V006004	SOLID	**Sample Group: 20111362**
PLUTONIUM	00029110	S11V005012	LIQUID	**Sample Group: 20111028**
PLUTONIUM	00030447	S11V004751	SOLID	**Sample Group: 20110763**
PLUTONIUM	00030447	S11V004791	SOLID	**Sample Group: 20110763**
PLUTONIUM	00030447	S11V004829	SOLID	**Sample Group: 20110763**
PLUTONIUM	00030447	S11V004847	SOLID	**Sample Group: 20110763**
PLUTONIUM	00030447	S11V004865	SOLID	**Sample Group: 20110763**
PLUTONIUM	00030447	S11V004914	SOLID	**Sample Group: 20110763**
PLUTONIUM	00030447	S11V004932	SOLID	**Sample Group: 20110763**
PLUTONIUM	00030447	S11V004968	SOLID	**Sample Group: 20110763**

METHOD	BATCH	SAMPLE	MATRIX	
PLUTONIUM	00031536	S11V005066	SOLID	**Sample Group: 20111030**
PLUTONIUM	00031536	S11V005106	SOLID	**Sample Group: 20111030**
PLUTONIUM	00031536	S11V005124	SOLID	**Sample Group: 20111030**
PLUTONIUM	00031536	S11V005142	SOLID	**Sample Group: 20111030**
PLUTONIUM	00031536	S11V005160	SOLID	**Sample Group: 20111030**
PLUTONIUM	00031536	S11V005178	SOLID	**Sample Group: 20111030**
PLUTONIUM	00031536	S11V005196	SOLID	**Sample Group: 20111030**
PLUTONIUM	00031722	S11V004718	LIQUID	**Sample Group: 20110761**
PLUTONIUM	00031889	S11V004734	SOLID	**Sample Group: 20110763**
PLUTONIUM	00031889	S11V004950	SOLID	**Sample Group: 20110763**
PLUTONIUM	00031889	S11V005460	SOLID	**Sample Group: 20111030**
PLUTONIUM	00031889	S11V005476	SOLID	**Sample Group: 20111030**
PLUTONIUM	00031991	S11V005865	SOLID	**Sample Group: 20111362**
PLUTONIUM	00031991	S11V005879	SOLID	**Sample Group: 20111362**
PLUTONIUM	00031991	S11V005898	SOLID	**Sample Group: 20111362**
PLUTONIUM	00031991	S11V005917	SOLID	**Sample Group: 20111362**
PLUTONIUM	00031991	S11V005936	SOLID	**Sample Group: 20111362**
PLUTONIUM	00031991	S11V005955	SOLID	**Sample Group: 20111362**
PLUTONIUM	00031991	S11V005974	SOLID	**Sample Group: 20111362**
PLUTONIUM	00031991	S11V005993	SOLID	**Sample Group: 20111362**
PLUTONIUM	00031991	S11V006012	SOLID	**Sample Group: 20111362**
SELENIUM-79	00028665	S11V004718	LIQUID	**Sample Group: 20110761**
SELENIUM-79	00029584	S11V005012	LIQUID	**Sample Group: 20111028**
SELENIUM-79	00030608	S11V004737	SOLID	**Sample Group: 20110763**
SELENIUM-79	00030608	S11V004754	SOLID	**Sample Group: 20110763**
SELENIUM-79	00030608	S11V004794	SOLID	**Sample Group: 20110763**
SELENIUM-79	00030608	S11V004832	SOLID	**Sample Group: 20110763**
SELENIUM-79	00030608	S11V004850	SOLID	**Sample Group: 20110763**
SELENIUM-79	00030608	S11V004868	SOLID	**Sample Group: 20110763**
SELENIUM-79	00030608	S11V004917	SOLID	**Sample Group: 20110763**
SELENIUM-79	00030608	S11V004935	SOLID	**Sample Group: 20110763**
SELENIUM-79	00030608	S11V004953	SOLID	**Sample Group: 20110763**
SELENIUM-79	00030608	S11V004971	SOLID	**Sample Group: 20110763**
SELENIUM-79	00031694	S11V005069	SOLID	**Sample Group: 20111030**
SELENIUM-79	00031694	S11V005109	SOLID	**Sample Group: 20111030**
SELENIUM-79	00031694	S11V005127	SOLID	**Sample Group: 20111030**
SELENIUM-79	00031694	S11V005145	SOLID	**Sample Group: 20111030**
SELENIUM-79	00031694	S11V005163	SOLID	**Sample Group: 20111030**
SELENIUM-79	00031694	S11V005181	SOLID	**Sample Group: 20111030**
SELENIUM-79	00031694	S11V005199	SOLID	**Sample Group: 20111030**
SELENIUM-79	00031694	S11V005463	SOLID	**Sample Group: 20111030**
SELENIUM-79	00031694	S11V005479	SOLID	**Sample Group: 20111030**
SELENIUM-79	00031880	S11V005868	SOLID	**Sample Group: 20111362**
SELENIUM-79	00031880	S11V005882	SOLID	**Sample Group: 20111362**
SELENIUM-79	00031880	S11V005901	SOLID	**Sample Group: 20111362**
SELENIUM-79	00031880	S11V005920	SOLID	**Sample Group: 20111362**
SELENIUM-79	00031880	S11V005939	SOLID	**Sample Group: 20111362**
SELENIUM-79	00031880	S11V005958	SOLID	**Sample Group: 20111362**
SELENIUM-79	00031880	S11V005977	SOLID	**Sample Group: 20111362**
SELENIUM-79	00031880	S11V005996	SOLID	**Sample Group: 20111362**
SELENIUM-79	00031880	S11V006015	SOLID	**Sample Group: 20111362**
SR-90 ENV LIQUID	00028524	S11V004718	LIQUID	**Sample Group: 20110761**
SR-90 ENV LIQUID	00029076	S11V005012	LIQUID	**Sample Group: 20111028**

METHOD	BATCH	SAMPLE	MATRIX	
SR-90 ENV SOLID	00030429	S11V004735	SOLID	**Sample Group: 20110763**
SR-90 ENV SOLID	00030429	S11V004752	SOLID	**Sample Group: 20110763**
SR-90 ENV SOLID	00030429	S11V004792	SOLID	**Sample Group: 20110763**
SR-90 ENV SOLID	00030429	S11V004830	SOLID	**Sample Group: 20110763**
SR-90 ENV SOLID	00030429	S11V004848	SOLID	**Sample Group: 20110763**
SR-90 ENV SOLID	00030429	S11V004866	SOLID	**Sample Group: 20110763**
SR-90 ENV SOLID	00030429	S11V004915	SOLID	**Sample Group: 20110763**
SR-90 ENV SOLID	00030429	S11V004933	SOLID	**Sample Group: 20110763**
SR-90 ENV SOLID	00030429	S11V004951	SOLID	**Sample Group: 20110763**
SR-90 ENV SOLID	00030429	S11V004969	SOLID	**Sample Group: 20110763**
SR-90 ENV SOLID	00031540	S11V005067	SOLID	**Sample Group: 20111030**
SR-90 ENV SOLID	00031540	S11V005107	SOLID	**Sample Group: 20111030**
SR-90 ENV SOLID	00031540	S11V005125	SOLID	**Sample Group: 20111030**
SR-90 ENV SOLID	00031540	S11V005143	SOLID	**Sample Group: 20111030**
SR-90 ENV SOLID	00031540	S11V005161	SOLID	**Sample Group: 20111030**
SR-90 ENV SOLID	00031540	S11V005179	SOLID	**Sample Group: 20111030**
SR-90 ENV SOLID	00031540	S11V005197	SOLID	**Sample Group: 20111030**
SR-90 ENV SOLID	00031540	S11V005461	SOLID	**Sample Group: 20111030**
SR-90 ENV SOLID	00031540	S11V005477	SOLID	**Sample Group: 20111030**
SR-90 ENV SOLID	00031865	S11V005866	SOLID	**Sample Group: 20111362**
SR-90 ENV SOLID	00031865	S11V005880	SOLID	**Sample Group: 20111362**
SR-90 ENV SOLID	00031865	S11V005899	SOLID	**Sample Group: 20111362**
SR-90 ENV SOLID	00031865	S11V005918	SOLID	**Sample Group: 20111362**
SR-90 ENV SOLID	00031865	S11V005937	SOLID	**Sample Group: 20111362**
SR-90 ENV SOLID	00031865	S11V005956	SOLID	**Sample Group: 20111362**
SR-90 ENV SOLID	00031865	S11V005975	SOLID	**Sample Group: 20111362**
SR-90 ENV SOLID	00031865	S11V005994	SOLID	**Sample Group: 20111362**
SR-90 ENV SOLID	00031865	S11V006013	SOLID	**Sample Group: 20111362**
SVOA 222S #2	00028328	S11V004728	SOLID	**Sample Group: 20110763**
SVOA 222S #2	00028328	S11V004745	SOLID	**Sample Group: 20110763**
SVOA 222S #2	00028328	S11V004785	SOLID	**Sample Group: 20110763**
SVOA 222S #2	00028328	S11V004823	SOLID	**Sample Group: 20110763**
SVOA 222S #2	00028602	S11V004859	SOLID	**Sample Group: 20110763**
SVOA 222S #2	00028602	S11V004908	SOLID	**Sample Group: 20110763**
SVOA 222S #2	00028631	S11V004926	SOLID	**Sample Group: 20110763**
SVOA 222S #2	00028631	S11V004944	SOLID	**Sample Group: 20110763**
SVOA 222S #2	00028631	S11V004962	SOLID	**Sample Group: 20110763**
SVOA 222S #2	00028641	S11V004715	LIQUID	**Sample Group: 20110761**
SVOA 222S #2	00029101	S11V005009	LIQUID	**Sample Group: 20111028**
SVOA 222S #2	00031350	S11V006144	SOLID	**Sample Group: 20111362**
SVOA 222S #2	00031350	S11V006147	SOLID	**Sample Group: 20111362**
SVOA 222S #2	00031350	S11V006153	SOLID	**Sample Group: 20111362**
SVOA 222S #2	00031350	S11V006156	SOLID	**Sample Group: 20111362**
SVOA 222S #2	00031701	S11V006150	SOLID	**Sample Group: 20111362**
SVOA 222S #2	00031701	S11V006159	SOLID	**Sample Group: 20111362**
SVOA 222S #2	00031701	S11V006162	SOLID	**Sample Group: 20111362**
SVOA 222S #2	00031701	S11V006165	SOLID	**Sample Group: 20111362**
SVOA 222S #2	00031704	S11V006168	SOLID	**Sample Group: 20111362**
TC-99 by MS	00029183	S11V004725	SOLID	**Sample Group: 20110763**
TC-99 by MS	00029183	S11V004742	SOLID	**Sample Group: 20110763**
TC-99 by MS	00029183	S11V004782	SOLID	**Sample Group: 20110763**
TC-99 by MS	00029183	S11V004821	SOLID	**Sample Group: 20110763**
TC-99 by MS	00029183	S11V004839	SOLID	**Sample Group: 20110763**
TC-99 by MS	00029183	S11V004857	SOLID	**Sample Group: 20110763**
TC-99 by MS	00029183	S11V004906	SOLID	**Sample Group: 20110763**
TC-99 by MS	00029183	S11V004924	SOLID	**Sample Group: 20110763**
TC-99 by MS	00029183	S11V004942	SOLID	**Sample Group: 20110763**
TC-99 by MS	00029183	S11V004960	SOLID	**Sample Group: 20110763**

METHOD	BATCH	SAMPLE	MATRIX	
TC-99 by MS	00035297	S11V006146	SOLID	**Sample Group: 20111362**
TC-99 by MS	00035297	S11V006149	SOLID	**Sample Group: 20111362**
TC-99 by MS	00035297	S11V006152	SOLID	**Sample Group: 20111362**
TC-99 by MS	00035297	S11V006155	SOLID	**Sample Group: 20111362**
TC-99 by MS	00035297	S11V006158	SOLID	**Sample Group: 20111362**
TC-99 by MS	00035297	S11V006161	SOLID	**Sample Group: 20111362**
TC-99 by MS	00035297	S11V006164	SOLID	**Sample Group: 20111362**
TC-99 by MS	00035297	S11V006167	SOLID	**Sample Group: 20111362**
TC-99 by MS	00035297	S11V006170	SOLID	**Sample Group: 20111362**
TRITIUM	00028510	S11V004717	LIQUID	**Sample Group: 20110761**
TRITIUM	00029559	S11V005011	LIQUID	**Sample Group: 20111028**
TRITIUM	00030534	S11V004733	SOLID	**Sample Group: 20110763**
TRITIUM	00030534	S11V004750	SOLID	**Sample Group: 20110763**
TRITIUM	00030534	S11V004790	SOLID	**Sample Group: 20110763**
TRITIUM	00030534	S11V004828	SOLID	**Sample Group: 20110763**
TRITIUM	00030534	S11V004846	SOLID	**Sample Group: 20110763**
TRITIUM	00030534	S11V004864	SOLID	**Sample Group: 20110763**
TRITIUM	00030534	S11V004913	SOLID	**Sample Group: 20110763**
TRITIUM	00030534	S11V004931	SOLID	**Sample Group: 20110763**
TRITIUM	00030534	S11V004949	SOLID	**Sample Group: 20110763**
TRITIUM	00030534	S11V004967	SOLID	**Sample Group: 20110763**
TRITIUM	00031685	S11V005065	SOLID	**Sample Group: 20111030**
TRITIUM	00031685	S11V005105	SOLID	**Sample Group: 20111030**
TRITIUM	00031685	S11V005123	SOLID	**Sample Group: 20111030**
TRITIUM	00031685	S11V005141	SOLID	**Sample Group: 20111030**
TRITIUM	00031685	S11V005159	SOLID	**Sample Group: 20111030**
TRITIUM	00031685	S11V005177	SOLID	**Sample Group: 20111030**
TRITIUM	00031685	S11V005459	SOLID	**Sample Group: 20111030**
TRITIUM	00031685	S11V005475	SOLID	**Sample Group: 20111030**
TRITIUM	00031868	S11V005195	SOLID	**Sample Group: 20111030**
TRITIUM	00032090	S11V005864	SOLID	**Sample Group: 20111362**
TRITIUM	00032090	S11V005878	SOLID	**Sample Group: 20111362**
TRITIUM	00032090	S11V005897	SOLID	**Sample Group: 20111362**
TRITIUM	00032090	S11V005916	SOLID	**Sample Group: 20111362**
TRITIUM	00032090	S11V005935	SOLID	**Sample Group: 20111362**
TRITIUM	00032090	S11V005954	SOLID	**Sample Group: 20111362**
TRITIUM	00032090	S11V005973	SOLID	**Sample Group: 20111362**
TRITIUM	00032090	S11V005992	SOLID	**Sample Group: 20111362**
TRITIUM	00032090	S11V006011	SOLID	**Sample Group: 20111362**

Attachment 7

GEOLOGICAL REPORT WITH BULK DENSITY RESULTS

C Farm Cores C8102, C8104, C8106 Bulk Density Results

Core Number	Customer Sample ID	Sample Depth	Lab Sample ID	Analyte	Unit	Result
C8102	B2D1P9	5.7'-7.7'	S11V004755	Bulk Density	g/mL	1.84
C8102	B2D1T9	65'-67'	S11V004851	Bulk Density	g/mL	2.08
C8102	B2D1V1	65'-67'	S11V004853	Bulk Density	g/mL	2.02
C8102	B2D1V3	96'-98'	S11V004900	Bulk Density	g/mL	1.95
C8102	B2D1V4	96'-98'	S11V004901	Bulk Density	g/mL	1.99
C8102	B2D1V5	96'-98'	S11V004902	Bulk Density	g/mL	2.09
C8102	B2D1V7	155'-157'	S11V004918	Bulk Density	g/mL	2.13
C8102	B2D1V8	155'-157'	S11V004919	Bulk Density	g/mL	2.14
C8102	B2D1V9	155'-157'	S11V004920	Bulk Density	g/mL	2.20
C8102	B2D1W1	188'-190'	S11V004936	Bulk Density	g/mL	2.08
C8102	B2D1W2	188'-190'	S11V004937	Bulk Density	g/mL	2.04
C8102	B2D1W3	188'-190'	S11V004938	Bulk Density	g/mL	2.13
C8102	B2D1W5	221'-223'	S11V004954	Bulk Density	g/mL	2.13
C8104	B2F9Y6	5.7'-7.7'	S11V005050	Bulk Density	g/mL	1.95
C8104	B2F9Y7	5.7'-7.7'	S11V005051	Bulk Density	g/mL	2.12
C8104	B2F9X9	13.5'-15.5'	S11V005090	Bulk Density	g/mL	2.03
C8104	B2F9Y3	16.1'-18.1'	S11V005110	Bulk Density	g/mL	2.03
C8104	B2FB03	41'- 43'	S11V005128	Bulk Density	g/mL	2.40
C8104	B2FB04	41'- 43'	S11V005129	Bulk Density	g/mL	2.43
C8104	B2FB07	93'- 95'	S11V005146	Bulk Density	g/mL	2.08
C8104	B2FB08	93'- 95'	S11V005147	Bulk Density	g/mL	2.13
C8104	B2FB09	93'- 95'	S11V005148	Bulk Density	g/mL	2.13
C8104	B2FB11	117'-119'	S11V005164	Bulk Density	g/mL	2.21
C8104	B2FB12	117'-119'	S11V005165	Bulk Density	g/mL	2.34
C8104	B2FB13	117'-119'	S11V005166	Bulk Density	g/mL	2.38
C8104	B2FB15	157'- 159'	S11V005182	Bulk Density	g/mL	2.05
C8104	B2FB16	157'- 159'	S11V005183	Bulk Density	g/mL	2.09
C8104	B2FB17	157'- 159'	S11V005184	Bulk Density	g/mL	2.13
C8106	B2FPT5	19'- 21'	S11V005903	Bulk Density	g/mL	2.07
C8106	B2FPT8	27'- 29'	S11V005921	Bulk Density	g/mL	2.03
C8106	B2FPT9	27'- 29'	S11V005922	Bulk Density	g/mL	2.08
C8106	B2FPV0	27'- 29'	S11V005923	Bulk Density	g/mL	2.32
C8106	B2FPV2	64'- 66'	S11V005940	Bulk Density	g/mL	2.17
C8106	B2FPV3	64'- 66'	S11V005941	Bulk Density	g/mL	2.17
C8106	B2FPV4	64'- 66'	S11V005942	Bulk Density	g/mL	2.23
C8106	B2FPV6	90'- 92'	S11V005959	Bulk Density	g/mL	1.91
C8106	B2FPW0	132'- 134'	S11V005978	Bulk Density	g/mL	1.80
C8106	B2FPW4	161.5'- 163.5'	S11V005997	Bulk Density	g/mL	2.16
C8106	B2FPW5	161.5'- 163.5'	S11V005998	Bulk Density	g/mL	2.11
C8106	B2FPW6	161.5'- 163.5'	S11V005999	Bulk Density	g/mL	2.14

C Farm Core 8102 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20110763	C8102 B2B1L8 Surface	S11V004723	5/26/2011	(gm)S slightly gravel slightly muddy sand, slightly moist, largest particle is 15mm excluded, the larger pieces are sub-round to sub-angular, sand is very fine to very coarse grain, grading to medium grain gravel, little or no clay, minor silt, poorly sorted, uniform color, 2.5Y4/2, acid reactivity is slight to moderate.
20110763	C8102 B2B1L9 Surface Dup	S11V004739	5/26/2011	(gm)S slightly gravel slightly muddy sand, slightly moist, largest particle is 18mm also a 13mm, 12mm, excluded, also a 19mm particle that is white quartz excluded, The largest pieces are angular to rounded, sand is very fine to very coarse grain, grading to medium grain gravel, little or no clay, minor silt, poorly sorted, uniform color, trace mica, dominate rock type is basalt, 2.5Y4/2, acid reactivity is slight to moderate.
20110763	C8102 B2D1P9 5.7'-7.7'	S11V004755	6/2/2011	Tube is full, slightly moist, (m)S slightly muddy sand, uniform color and texture, slightly cohesive, very fine to coarse sand, trace mica, sample color 2.5Y4/2, acid reactivity is slight to moderate.
20110763	C8102 B2D1R0 5.7'-7.7'	S11V004756	6/2/2011	Top of liner has a 50mm gap, sample fell out onto tray from bottom of liner, slightly moist, mS muddy sand, very fine to coarse grain, occasional very coarse grain, uniform color and texture, slightly cohesive, little or no clay, poorly sorted, trace mica, trace fine gravel up to 7mm are sub rounded, largest particle is 20mm excluded it was rounded basalt pebble, sample color 2.5Y4/2, acid reactivity is moderate.
20110763	C8102 B2D1R1 5.7'-7.7'	S11V004757	6/2/2011	Tube is nearly empty, slightly moist, (gm)S slightly gravely slightly muddy sand, poorly sorted, slightly cohesive,very fine gravel and is sub angular, predominately very fine to coarse grain material, little or no clay, trace mica, sample color 2.5Y4/2, acid reactivity is slight to moderate.
20110763	C8102 B2D1P8 5.7'-7.7'	S11V004758	6/2/2011	(m)S slightly muddy sandy, slightly moist, slightly cohesive, sand is very fine to coarse grain, occasional pieces of very coarse grain, sub angular to sub rounded, poorly sorted, little or no clay, trace of gravel, largest particle is 12mm, particle was sub rounded, trace mica, sample color 2.5Y4/2, acid reactivity is slight to moderate.
20110763	C8102 B2D1R3 7.7'-9.7'	S11V004775	6/2/2011	Top of liner is full, bottom has 8mm gap, slightly moist, (m)S slightly muddy sand, uniform color and texture, slightly cohesive, very fine to coarse grain, poorly sorted, trace mica, sample color 2.5Y4/2, acid reactivity is moderate to vigorous.
20110763	C8102 B2D1R4 7.7'-9.7'	S11V004776	6/2/2011	Top of liner had an irregular gap of 4mm, The material fell out of bottom of liner onto tray, slightly moist, (m)S slightly muddy sand, poorly sorted, predominately fine to very fine grain with traces of coarse and very coarse grains, little or no clay with a trace of gravel, largest particle is 12mm, sub rounded, trace mica, sample color 2.5Y4/2, acid reactivity is slight to moderate.
20110763	C8102 B2D1R2 7.7'-9.7'	S11V004778	6/2/2011	Moist, (m)S slightly muddy sand, slightly cohesive, predominately very fine to medium grain sand, trace of gravel, moderately well sorted, little or no clay, largest particle is 6mm, it is sub rounded, trace mica, sample color 2.5Y3/2, acid reactivity is moderate.
20110763	C8102 B2D1R7 11.5'-13.5'	S11V004795	6/2/2011	Liner had a 30mm gap at top, when bottom cap off all material slid out into the tray. slightly moist, S sand, very fine sand to fine gravel, gravel fraction is in trace amounts, after wetting slight salt an pepper texture, non cohesive, little or no clay, poorly sorted, largest particle is 8mm, large particles sub angular to rounded, trace mica, sample color 2.5Y4/2, acid reactivity is slight.

C Farm Core 8102 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20110763	C8102 B2D1R6 11.5'-13.5'	S11V004798	6/2/2011	Moist, (m)S slightly muddy sand, predominately very fine to coarse grain sand, slightly salt and pepper texture, little or no clay, trace mica, trace of fine gravel, predominately sub round, largest particle is 6mm, sample color 2.5Y4/1, acid reactivity is moderate.
20110763	C8102 B2D1T1 13.5'-15.5'	S11V004815	6/2/2011	Top of liner is full, bottom of liner has a 8mm gap, material fell out of liner into tray, Slightly moist, S sand, predominately very fine to very coarse grain sand, slightly salt and pepper texture, traces of silt, little or no clay, poorly sorted, trace mica, minor amounts of gravel, largest particles 17mm and 20mm excluded, the gravel portion is sub angular to sub round, sample color 2.5Y4/2, acid reactivity is slight to moderate.
20110763	C8102 B2D1T2 13.5'-15.5'	S11V004816	6/2/2011	This sample was not in a liner it came in a jar, slightly moist, S sand, very fine to very coarse grain sand, slight salt and pepper texture, poorly sorted, trace mica, minor silt, little or no clay, minor amounts of gravel, predominately sub rounded, largest particle is 16mm, sample color 2.5Y4/2, acid reactivity is slight to moderate.
20110763	C8102 B2D1T0 13.5'-15.5'	S11V004818	6/2/2011	Slightly moist, S sand, very fine grain sand to very coarse grain sand, trace of gravel, particles are sub round, slightly salt and pepper texture, poorly sorted, trace silt, trace mica, largest particle is 22mm excluded, sample color 2.5Y4/2, acid reactivity is very slight.
20110763	C8102 B2D1T5 16.1'-18.1'	S11V004833	6/6/2011	70mm gap from top of liner, slightly moist, (g)S slightly gravelly sand, found piece of gasket material that is 25mm long and 1mm wide and it stretches, very fine grain sand to medium grain gravel, trace of silt, slightly salt and pepper texture, sub angular to sub round, largest particle was 17mm is sub round and excluded, trace of mica, took picture of what appears to be an O-ring, sample color is 2.5Y4/2, acid reactivity slight.
20110763	C8102 B2D1T4 16.1'-18.1'	S11V004836	6/6/2011	slightly moist, (g)S slightly gravelly sand, sand is very fine to medium grain sand, occasional very coarse sand to medium gravel, trace of silt, trace of mud, largest particle is 21mm is sub round and was excluded, sample color is 2.5Y4/2, acid reactivity is slight to moderate.
20110763	C8102 B2D1T9 65'-67'	S11V004851	6/9/2011	Tube is full, very slightly moist, (g)S slightly gravelly sand, largest particle is 10mm, sub angular, slight salt and pepper texture, very fine grain sand to medium grain gravel, poorly sorted, minor amount of silt, little or no clay, sample color 2.5Y5/2, acid reactivity is slight.
20110763	C8102 B2D1V0 65'-67'	S11V004852	6/9/2011	Top is full, bottom has 5mm depression, rock visible in bottom end, very slightly moist, (g)S slighty gravelly sand, salt and pepper texture, largest particle is 12 by 11mm excluded, sub angular to sub round, very fine grain sand to medium grain gravel, poorly sorted, minor amounts of silt, little or not clay 2.5Y5/2, acid reactivity is slight.
20110763	C8102 B2D1V1 65'-67'	S11V004853	6/9/2011	Tube is full, slightly moist, (g)S slightly gravelly sand, salt and pepper texture, poorly sorted, very fine grain sand to fine grain gravel, fining downward, sub angular, largest particle is 10mm, trace amounts of coarse grain silt, little or no clay, sample color is 2.5Y5/2, acid reactivity is very slight.
20110763	C8102 B2D1T8 65'-67'	S11V004854	6/9/2011	Lightly moist, (g)S slightly gravelly sand, largest particle is 9mm, sub angular to sub round, very fine grain sand to fine grain gravel, slight increase in the amount of silt, little or no clay, trace of mica, sample color 2.5Y5/2, acid reactivity is very slight.
20110763	C8102 B2D1V3 96'-98'	S11V004900	6/14/2011	Tube is full, very slightly moist, S sand, little or no mud, trace gravel, largest particle is 4mm, moderately well sorted, medium to coarse sand, angular to sub angular grains, uniform color and texture, minor fine and very fine sand, minor mica, sample color is 2.5Y5/4, acid reactivity is slight.

C Farm Core 8102 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20110763	C8102 B2D1V4 96'-98'	S11V004901	6/14/2011	Tube is full, slightly moist, S sand, trace mud (silt), no gravel, largest particle is 2mm, moderately well sorted, fine to coarse sand, uniform color and texture, minor very fine sand, trace mica, sample color is 2.5Y5/3, acid reactivity is slight.
20110763	C8102 B2D1V5 96'-98'	S11V004902	6/14/2011	Tube is full, slightly moist to moist, S sand, trace mud, largest particle is 2mm, moderately well sorted, medium to coarse sand, angular to sub angular grains, uniform color and texture, minor fine and very fine sand, trace mica, sample color is 2.5Y4/4, acid reactivity is slight.
20110763	C8102 B2D1V2 96'-98'	S11V004903	6/14/2011	Dry, S sand, trace gravel, trace mud, somewhat poorly sorted, very fine to very coarse sand, largest particle 8mm, sub angular to sub rounded, sand is mostly medium to very fine grain, mud is silt, uniform color and texture, trace mica, sample color is 2.5Y6/3, acid reactivity is slight to moderate.
20110763	C8102 B2D1V7 155'-157'	S11V004918	6/16/2011	Tube is full, very slightly moist, S sand, moderately well sorted, trace gravel, little or no mud, largest particle is 5mm, sub angular to sub rounded, uniform color and texture, minor very coarse sand, trace mud (silt), trace mica, sample color 2.5Y6/3, acid reactivity is very slight.
20110763	C8102 B2D1V8 155'-157'	S11V004919	6/16/2011	Tube is full, very slightly moist, (g)S slightly gravely sand, trace mud, minor fine gravel, largest particle 22mm excluded, remaining gravel <12mm or smaller, sub angular to rounded, uniform color an texture, somewhat poorly sorted, trace mica, sample color 2.5Y6/2, acid reactivity is slight.
20110763	C8102 B2D1V9 155'-157'	S11V004920	6/16/2011	Tube is full, very slightly moist, (g)S slightly gravely sand, somewhat poorly sorted, sand with minor gravel, trace mud (silt), largest particle is 15mm excluded, sub angular to sub rounded, uniform color and texture, trace mica, sample color 2.5Y6/3, acid reactivity is slight.
20110763	C8102 B2D1V6 155'-157'	S11V004921	6/16/2011	Dry, S sand, dominately fine sand with trace gravel, minor mud (silt), largest particle is 13mm excluded, sub angular to sub rounded, uniform color and texture, moderately well sorted, trace mica, sample color is 2.5Y6/3, acid reactivity is slight.
20110763	C8102 B2D1W1 188'-190'	S11V004936	6/20/2011	Tube is full, very slightly moist, gS gravelly sand, grades from very fine sand to medium gravel, poorly sorted, salt and pepper texture, minor silt, little or no clay, largest particle is 12mm, sub angular to sub round, trace mica, sample color is 2.5Y5/2, acid reactivity is slight.
20110763	C8102 B2D1W2 188'-190'	S11V004937	6/20/2011	Tube is full, very slightly moist, (g)S slightly gravelly sand, very fine to medium gravel, slight decrease in the amount of gravel relative to B2D1W1, salt and pepper texture, poorly sorted, minor amounts of silt, little or no clay, largest particle is 13mm, sub angular to sub round, trace mica, sample color is 2.5Y5/2, acid reactivity is slight.
20110763	C8102 B2D1W3 188'-190'	S11V004938	6/20/2011	Tube is full, very slightly moist, (g)S slightly gravelly sand, very fine to medium gravel, salt and pepper texture, poorly sorted, slight decrease in the amount of silt relative to B2D1W2, little or no clay, largest particle is 12 mm, sub angular to sub rounded, trace mica, sample color is 2.5Y5/2, acid reactivity is very slight.
20110763	C8102 B2D1W0 188'-190'	S11V004939	6/20/2011	very slighly moist, (g)S slightly gravelly sand, salt and pepper texture, poorly sorted, predominately medium to very coarse grain sand, slight increase in the amount of silt over B2D1W3, largest particle is 6mm, sub angular to sub round, trace mica, sample color is 2.5Y6/1, acid reactivity is slight.
20110763	C8102 B2D1W5 221'-223'	S11V004954	6/20/2011	Tube is full, slightly moist, gS gravelly sand, slight salt and pepper texture, very fine sand to predominately fine gravel, poorly sorted, minor silt, little or no clay, slight increase in very fine sand, largest particles are 18mm and 15mm both excluded, sub angular to sub round, trace mica, sample color is 2.5Y5/2, acid reactivity is none.

C Farm Core 8102 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20110763	C8102 B2D1W6 221'-223'	S11V004955	6/20/2011	Top of liner has an irregular 3mm depression, bottom of liner is full, slightly moist, gS gravelly sand, very fine grain sand to fine gravel, poorly sorted, slight salt and pepper texture, minor amounts of silt, largest particle is 14mm, sub angular to sub rounded, trace mica, sample color is 2.5Y5/2, acid reactivity is none.
20110763	C8102 B2D1W7 221'-223'	S11V004956	6/20/2011	Top of liner is full, bottom of liner has a half moon depression of 3mm, slightly moist, gS gravelly sand, poorly sorted, slight salt and pepper texture, very fine grain sand to fine gravel, minor amounts of silt, little or no clay, sub angular to sub rounded, trace mica, sample color 2.5Y5/2, acid reactivity is none.
20110763	C8102 B2D1W4 221'-223'	S11V004957	6/20/2011	very slightly moist, gS, gravelly sand, very fine sand to fine gravel, sand grain size is predominately medium to very coarse, poorly sorted, very slight salt and pepper texture, largest particle is 6mm, sub angular to sub rounded, trace mica, sample color is 2.,5Y6/2, acid reactivity is none.

C Farm 2011, C8102 Photographic Log

Figure A-1: Core 8102, Sample B2B1L8, Surface

Figure A-2: Core 8102, Sample B2B1L9, Surface Duplicate

Figure A-3: Core 8102, I001, Sample B2D1P8, Shoe

Figure A-4: Core 8102, I001, Sample B2D1P9, Liner A

Figure A-5: Core 8102, I001, Sample B2D1R0, Liner B

Figure A-6: Core 8102, I001, Sample B2D1R1, Liner C

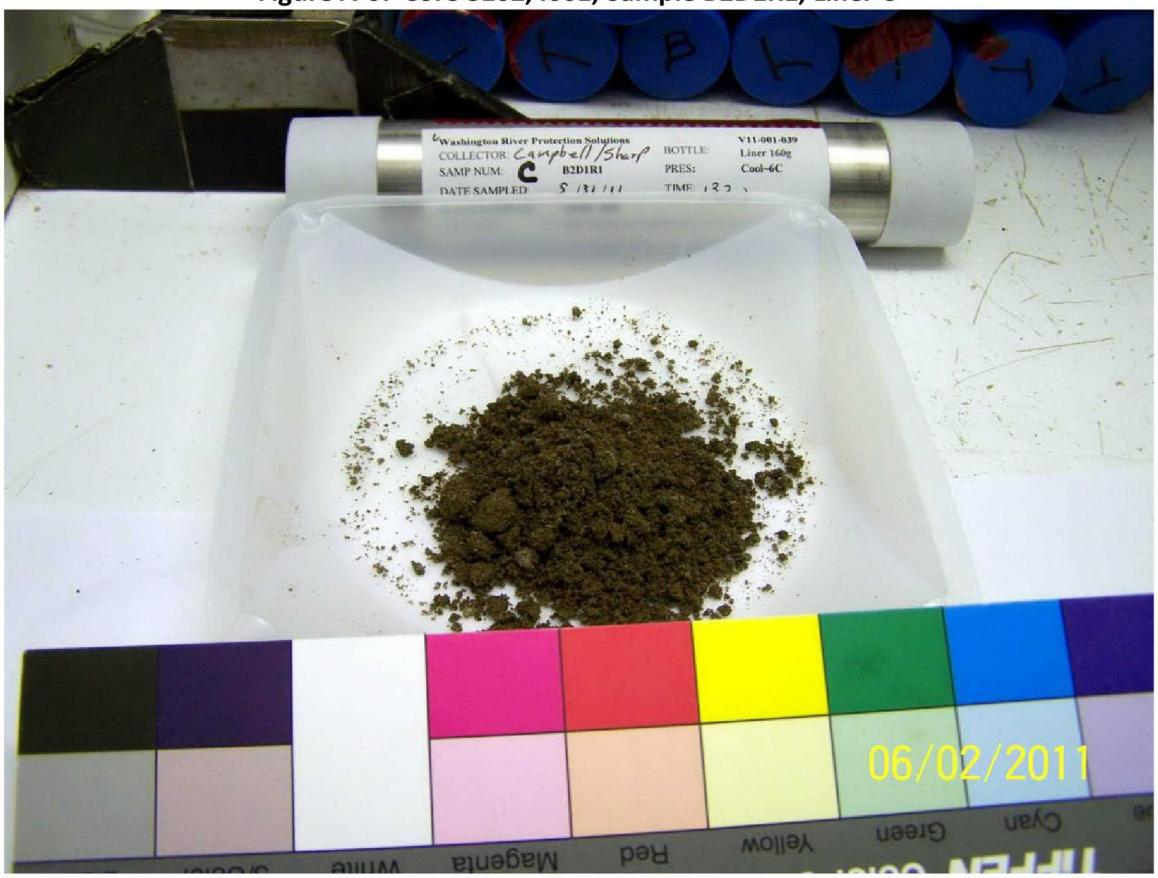


Figure A-7: Core 8102, I002, Sample B2D1R2, Shoe

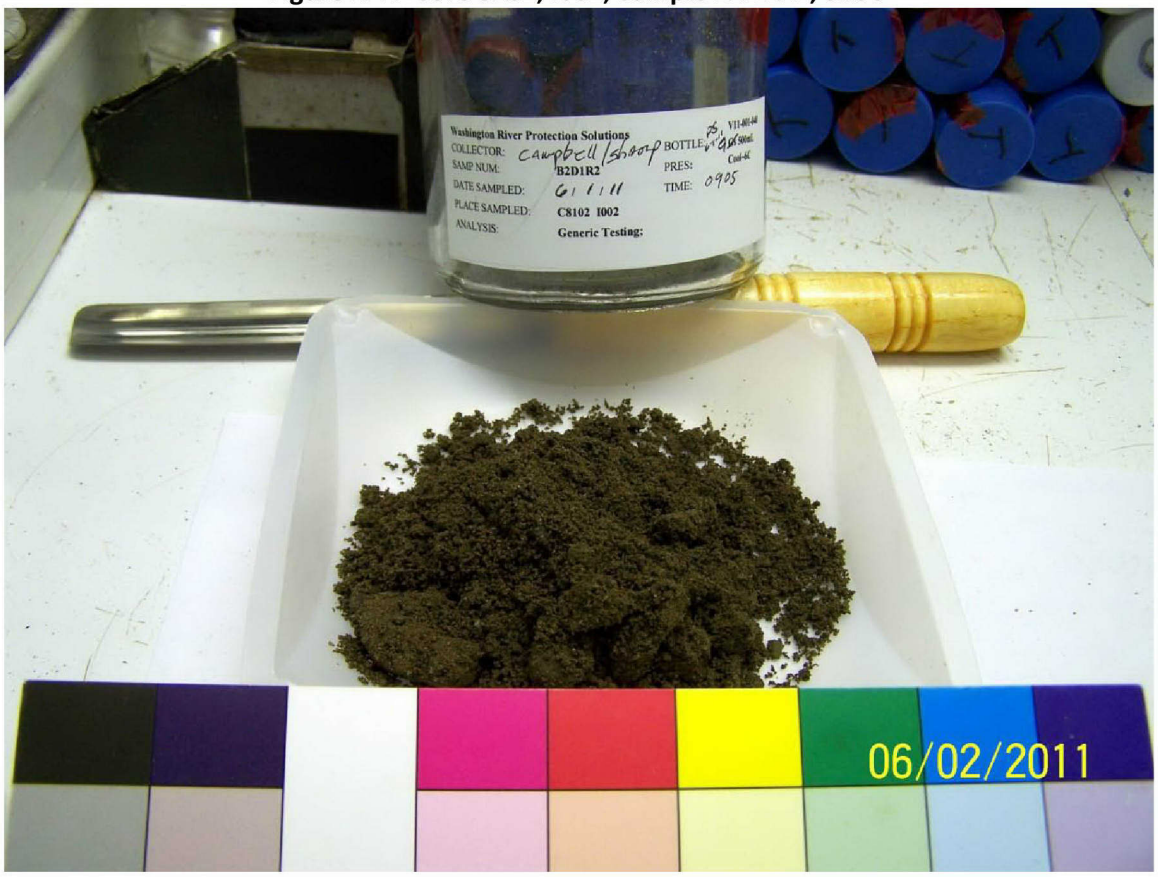


Figure A-8: Core 8102, I002, Sample B2D1R3, Liner A

Figure A-9: Core 8102, I002, Sample B2D1R4, Liner B

Figure A-10: Core 8102, I003, Sample B2D1R6, Shoe

Figure A-11: Core 8102, I003, Sample B2D1R7, Liner A

Figure A-12: Core 8102, I004, Sample B2D1T0, Shoe

Figure A-13: Core 8102, I004, Sample B2D1T1, Liner A

Figure A-14: Core 8102, I004, Sample B2D1T2, Liner B

Figure A-15: Core 8102, I005, Sample B2D1T4, Shoe

Figure A-16: Core 8102, I005, Sample B2D1T5, Liner A

Figure A-17: Core 8102, I006, Sample B2D1T8, Shoe

Figure A-18: Core 8102, I006, Sample B2D1T9, Liner A

Figure A-19: Core 8102, I006, Sample B2D1V0, Liner B

Figure A-20: Core 8102, I006, Sample B2D1V1, Liner C

Figure A-21: Core 8102, I007, Sample B2D1V2, Shoe

Figure A-22: Core 8102, I007, Sample B2D1V3, Liner A

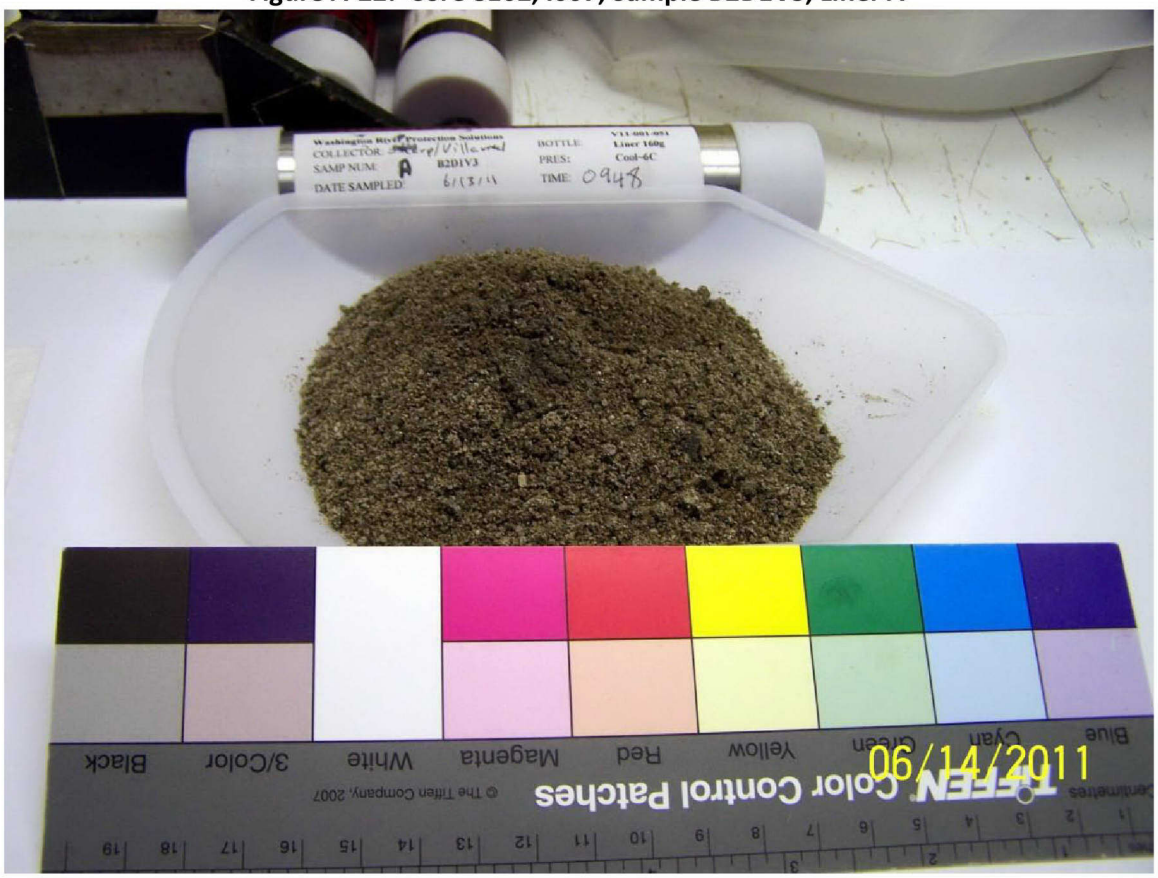


Figure A-23: Core 8102, I007, Sample B2D1V4, Liner B

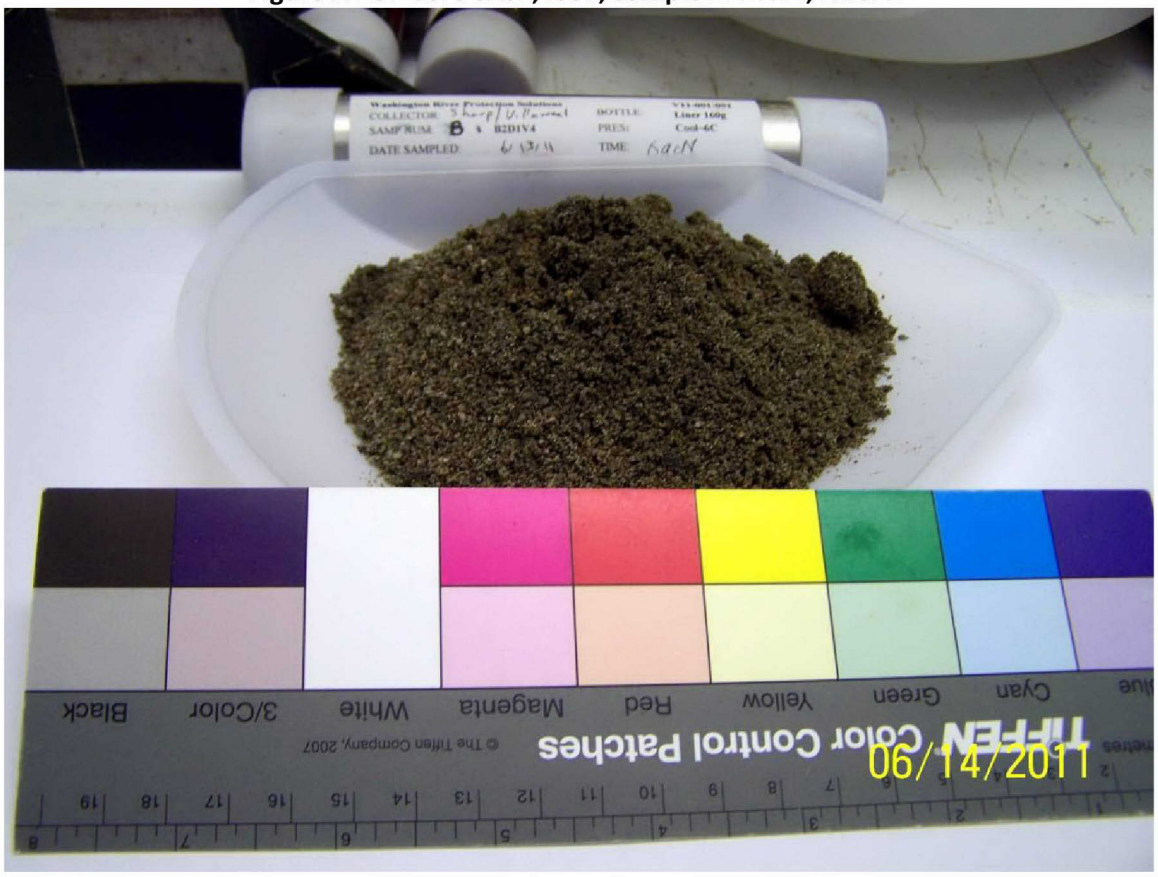


Figure A-24: Core 8102, I007, Sample B2D1V5, Liner C

Figure A-25: Core 8102, I008, Sample B2D1V6, Shoe

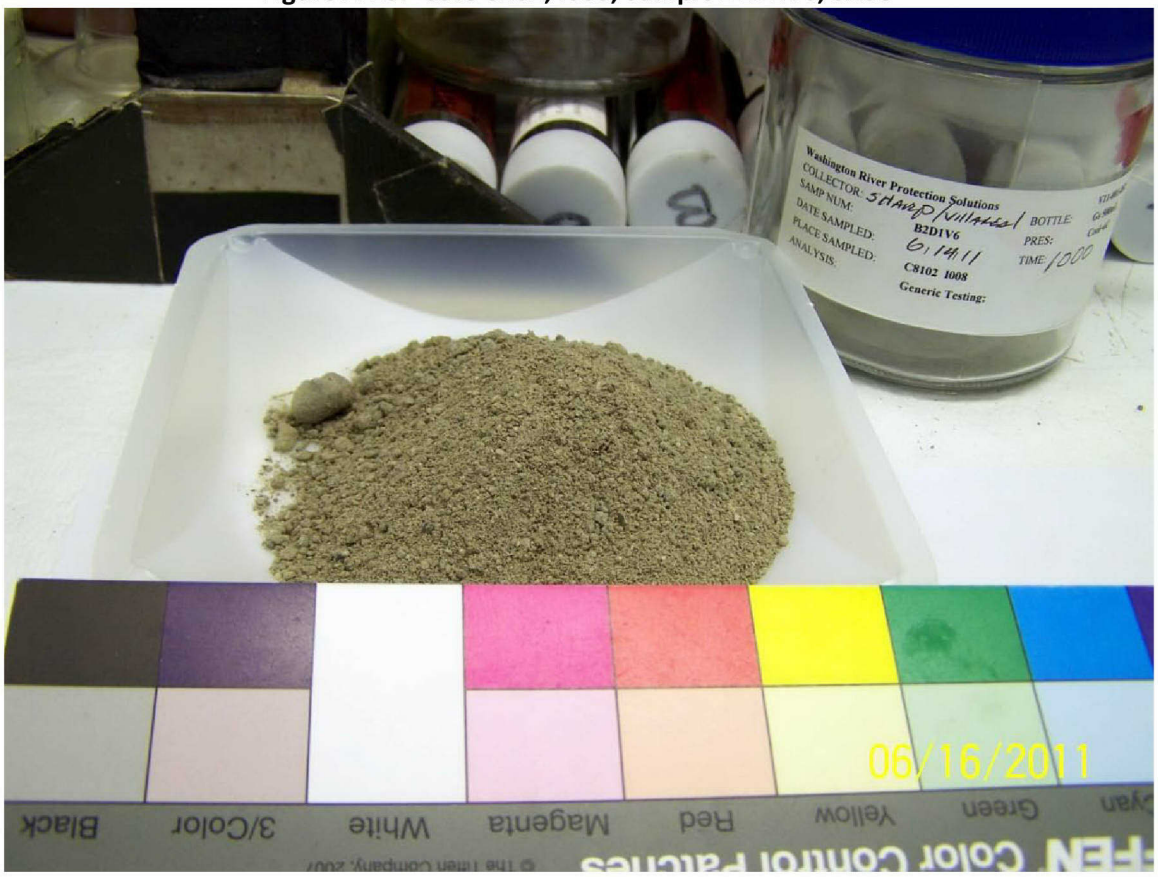


Figure A-26: Core 8102, I008, Sample B2D1V7, Liner A

Figure A-27: Core 8102, I008, Sample B2D1V8, Liner B

Figure A-28: Core 8102, I008, Sample B2D1V9, Liner C

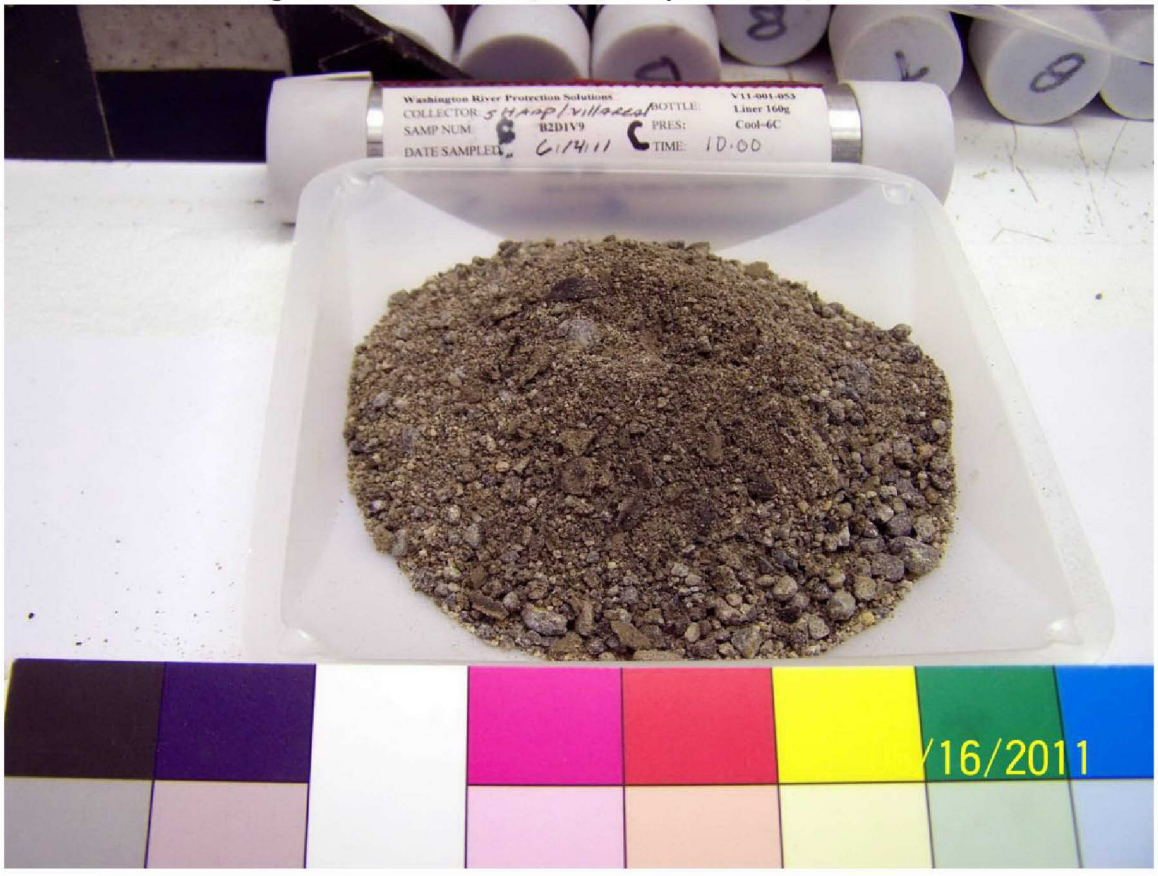


Figure A-29: Core 8102, I009, Sample B2D1W0, Shoe

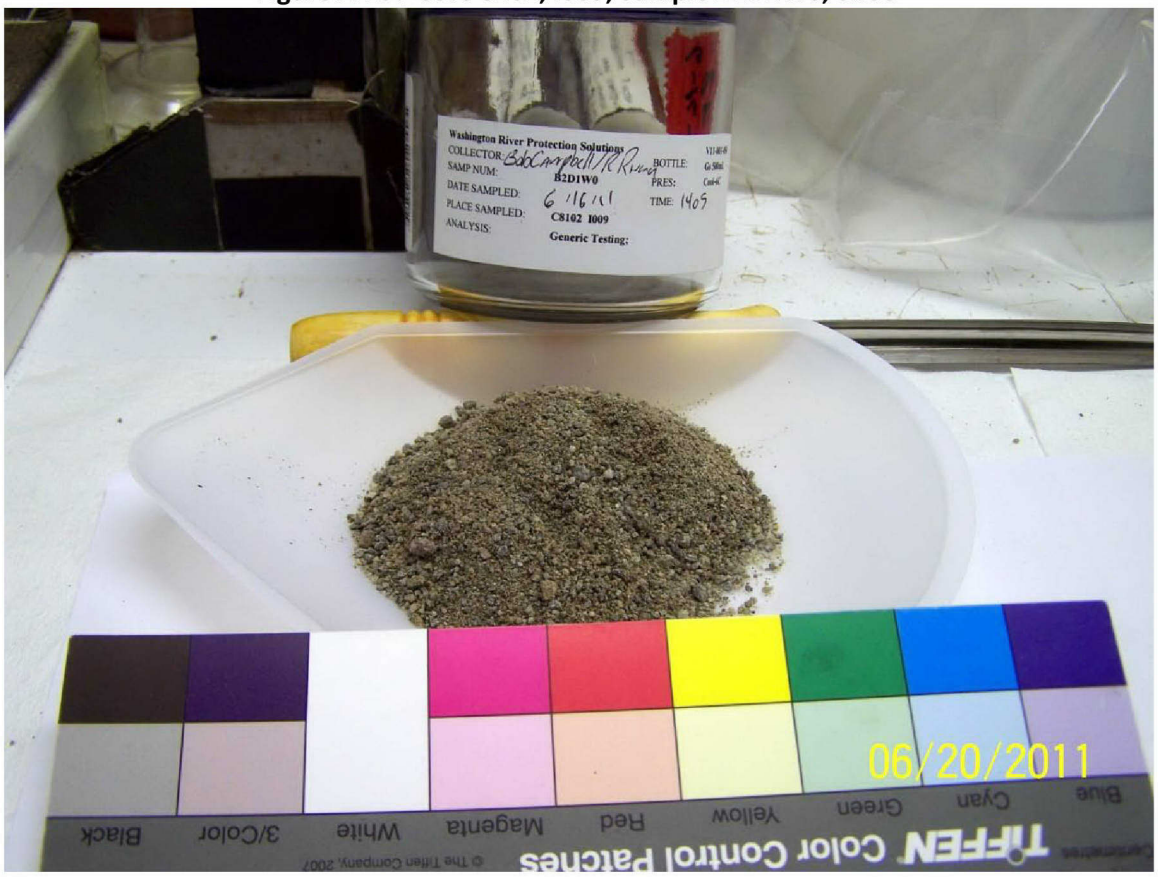


Figure A-30: Core 8102, I009, Sample B2D1W1, Liner A

Figure A-31: Core 8102, I009, Sample B2D1W2, Liner B

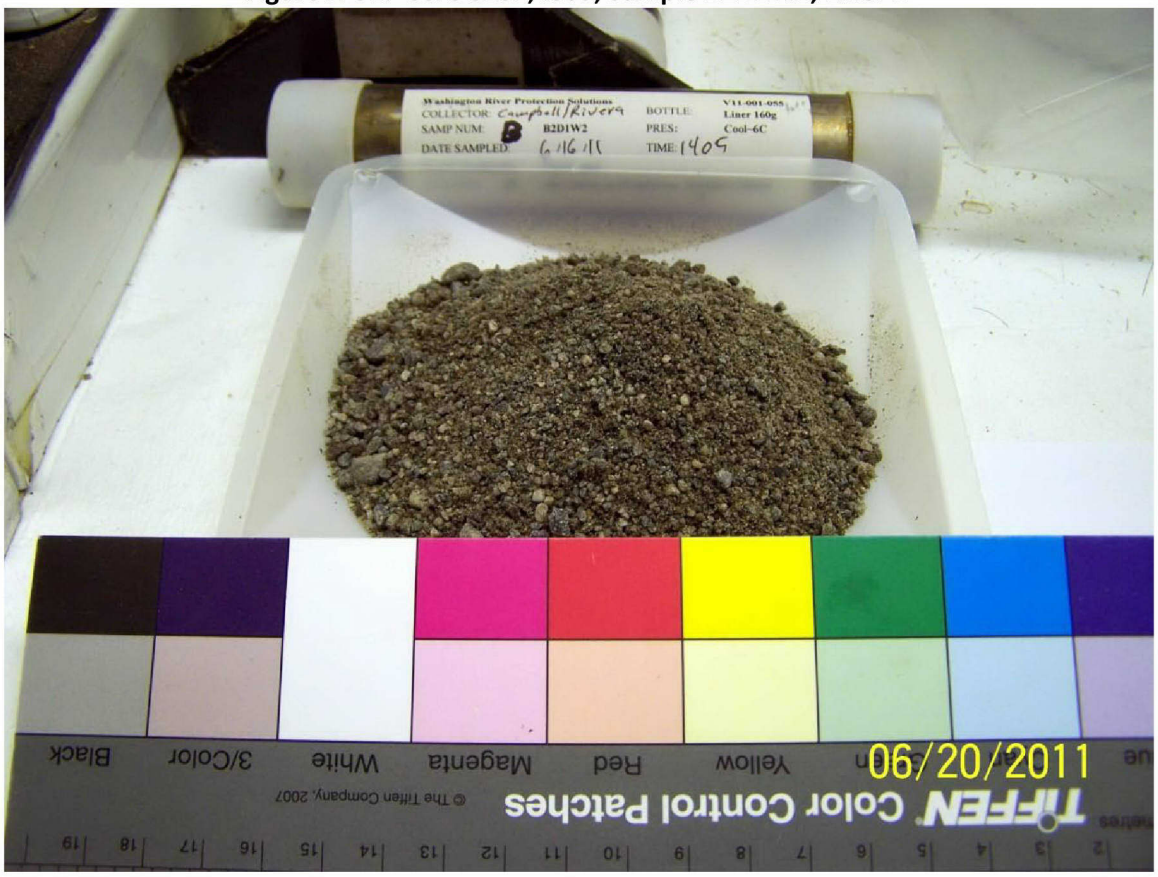


Figure A-32: Core 8102, I009, Sample B2D1W3, Liner C

Figure A-33: Core 8102, I010, Sample B2D1W4, Shoe

Figure A-34: Core 8102, I010, Sample B2D1W5, Liner A

Figure A-35: Core 8102, I010, Sample B2D1W6, Liner B

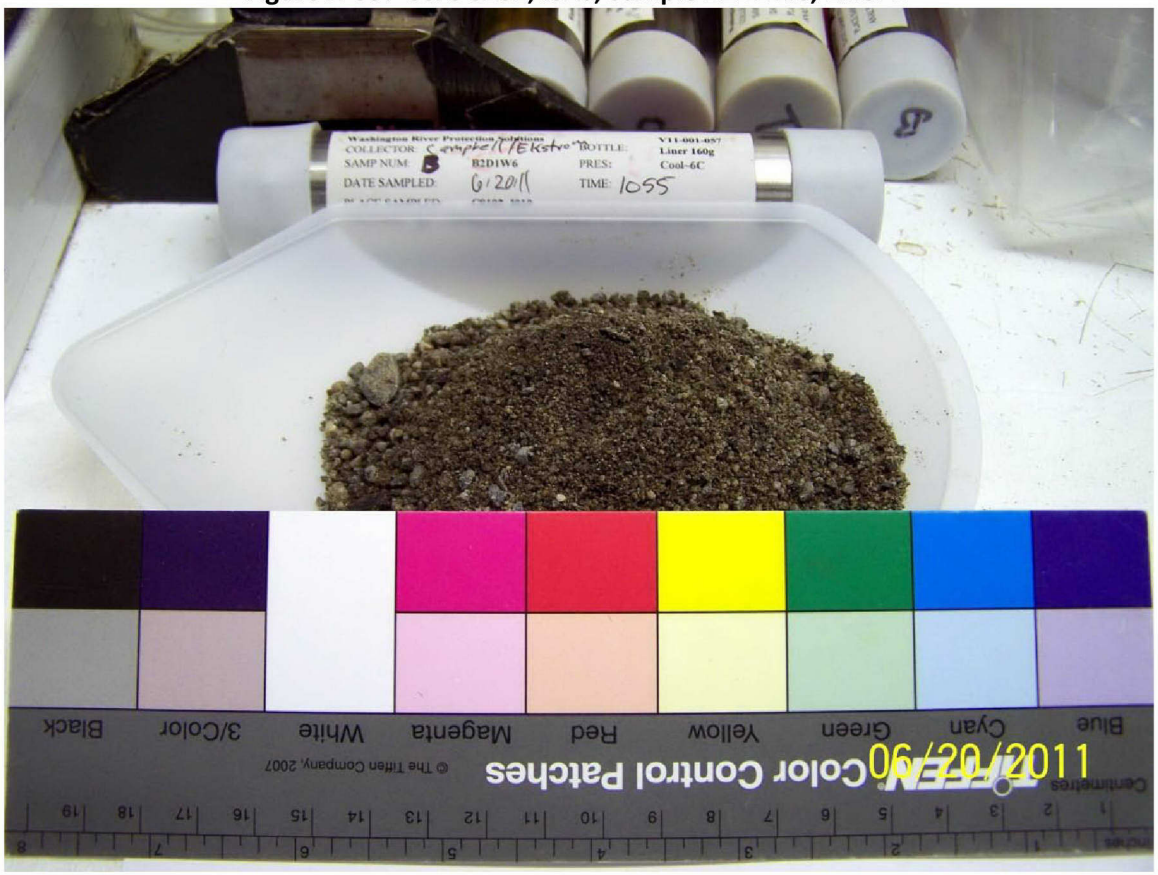


Figure A-36: Core 8102, I010, Sample B2D1W7, Liner C

C Farm Core 8104 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20111030	C8104 B2FPF1 Surface	S11V005672	8/2/2011	These samples were broken down at WSCF, received 2 surface jars for B2FPF1 as noted in the 2 descriptions below, they were composited into one jar. Used 1M HCL for acid. Slightly moist, (g)S slightly gravelly sand, poorly sorted, very fine grain sand to medium grain gravel, sub angular to sub round, largest particle 13mm, trace mica, sample color 2.5Y5/2, acid reactivity slight. Slightly moist, (g)S slightly gravelly sand, poorly sorted, very fine grain sand to medium grain gravel, sub angular to sub round, traces of cohesive chunks easily broken, largest particle 19mm, trace mica, sample color 2.5Y5/2, acid reactivity slight to moderate.
20111030	C8104 B2FPF2 Surface Dup	S11V005673	8/2/2011	These samples were broken down at WSCF, received 2 surface jars for B2FPF2 as noted in the 2 descriptions below, they were composited into one jar. Used 1M HCL for acid. Slightly moist, (g)S slightly gravelly sand, poorly sorted, few clasts that break easily, very fine grain sand to medium gravel, abundant silt, trace clay, largest particle 13mm, trace mica, sample color 2.5Y5/2, acid reactivity slight to moderate. Slightly moist, (g)S slightly gravelly sand, poorly sorted, minor clasts that break easily, very fine grain sand to medium gravel, sub angular to sub round, abundant silt, trace of clay, largest particle 14mm and was sub angular, trace mica, sample color 2.5Y5/2, acid reactivity slight to moderate.
20111030	C8104 B2F9Y6 5.7'-7.7'	S11V005050	7/11/2011	Tube is full, slightly moist, (g)S slightly gravelly sand, non cohesive, slight salt and pepper texture, very fine to coarse grain sand with minor amounts of medium gravel, minor silt, poorly sorted, largest particle is 18mm excluded, sub angular to sub round, trace mica, sample color is 2.5Y5/2, acid reactivity is very slight. Note: this extrusion was done at WSCF and we use 1M HCL for the acid.
20111030	C8104 B2F9Y7 5.7'-7.7'	S11V005051	7/11/2011	Tube is full, slightly moist, gS gravelly sand, unconsolidated sand, slight salt and pepper texture, poorly sorted, very fine to medium grain gravel, slight increase in silt content, largest particle 25mm excluded, sub round to sub angular, trace mica, sample color is 2.5Y5/2, acid reactivity is slight. Note: this extrusion was done at WSCF and we use 1M HCL for the acid.
20111030	C8104 B2F9Y8 5.7'-7.7'	S11V005052	7/11/2011	Top has 50mm gap, bottom was full, slightly moist, S sand, very fine sand to fine gravel, poorly sorted, minor gravel, largest particle is 6mm, sub angular to sub round, sample color is 2.5Y5/3, acid reactivity is slight. Note: this extrusion was done at WSCF and we use 1M HCL for the acid.
20111030	C8104 B2F9X6 5.7'-7.7'	S11V005053	7/12/2011	Slightly moist, gS gravelly sand, slightly salt and pepper texture, very fine grain sand to medium gravel, poorly sorted, minor silt, largest particle 12mm, sample color 2.5Y5/2, acid reactivity is slight. Note: this extrusion was done at WSCF and we use 1M HCL for the acid.

C Farm Core 8104 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20111030	C8104 B2F9Y9 11.5'-13.5'	S11V005070	7/12/2011	Top of liner has a 60mm void, opened bottom and sample poured out, slightly moist, (g)S slightly gravelly sand, salt and pepper texture, poorly sorted, sub round to sub angular, predominately medium to coarse grain sand, gravel part is fine grain, trace of silt, little or no clay, largest particle 11mm, trace mica, chewed up piece of "O" ring in sample excluded, sample color is 2.5Y5/2, acid reactivity is very slight. Note: this extrusion was done at WSCF and we use 1M HCL for the acid.
20111030	C8104 B2F9X7 11.5'-13.5'	S11V005073	7/12/2011	Moist to slightly moist, (g)S slightly gravelly sand, poorly sorted, slight salt and pepper texture, grades from predominately fine grain sand to fine grain gravel, abundant silt, little or no clay, largest particle 11mm, sub round to sub angular, trace mica, sample color is 2.5Y5/2, acid reactivity is slight. Note: this extrusion was done at WSCF and we use 1M HCL for the acid.
20111030	C8104 B2F9X9 13.5'-15.5'	S11V005090	7/12/2011	Tube is full, slightly moist, (g)S slightly gravelly sand, slight salt and pepper texture, poorly sorted, sand is predominately medium to very coarse grain, fine to very fine sand in minor amounts, coarser sand is sub round to sub angular, largest particle is 20mm excluded and was sub round, trace mica, sample color is 2.5Y5/2, acid reactivity is slight. Note: this extrusion was done at WSCF and we use 1M HCL for the acid.
20111030	C8104 B2F9Y0 13.5'-15.5'	S11V005091	7/12/2011	Top of liner has a 10mm gap, sample poured out of liner, slighty moist, (g)S slightly gravelly sand, poorly sorted, slight salt and pepper texture, predominately fine to coarse grain sand, trace of clay, largest particle 13 mm was sub round, trace mica, sample color 2.5Y5/2, acid reactivity is slight (slightly more reactive than the A liner). Note: this extrusion was done at WSCF and we use 1M HCL for the acid.
20111030	C8104 B2F9X8 13.5'-15.5'	S11V005093	7/12/2011	Slightly moist, (g)S slightly gravelly sand, poorly sorted, predominately coarse grain sand, abundant very fine to medium grain sand, trace of silt, sub round to sub angular for gravel section, largest particle 18mm excluded, sample color is 2.5Y5/2, acid reactivity is very slight. Note: this extrusion was done at WSCF and we use 1M HCL for the acid.
20111030	C8104 B2F9Y3 16.1'-18.1'	S11V005110	7/12/2011	Tube is full, slightly moist, gS gravelly sand, poorly sorted, salt and pepper texure, very fine to very coarse sand, sub angular to sub round for gravel fraction, grades from fine gravel to medium gravel, minor silt, largest particles 25mm , 15mm and 13mm excluded, trace mica, sample color is 2.5Y5/2, acid reactivity is slight. Note: this extrusion was done at WSCF and we use 1M HCL for the acid.
20111030	C8104 B2F9Y4 16.1'-18.1'	S11V005111	7/12/2011	Top is full, bottom has an 3mm irregular depression, slightly moist, gS gravelly sand, poorly sorted, slight salt and pepper texture, grades from very fine sand to fine gravel, abundant silt, little or no clay, largest particles, 13mm and two 12mm excluded, sub angular to sub round, trace mica, sample color 2.5Y5/2, acid reactivity is very slight. Note: this extrusion was done at WSCF and we use 1M HCL for the acid.

C Farm Core 8104 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20111030	C8104 B2F9Y5 16.1'-18.1'	S11V005112	7/12/2011	Tube is nearly empty, very poor recovery, very slightly moist, (mg)S slightly muddy slightly gravelly sand, sub angular to sub round, predominately very fine to medium grain sand, coarse silt, little or no clay, largest particle 11mm, trace mica, sample color is 2.5Y4/2, acid reactivity is slight to moderate. Note: this extrusion was done at WSCF and we use 1M HCL for the acid.
20111030	C8104 B2F9Y2 16.1'-18.1'	S11V005113	7/12/2011	Slightly moist, gS gravelly sand, poorly sorted, salt and pepper texture, very fine sand to medium grave. minor silt, sub angular to sub round, largest particles 17mm and 13mm excluded and were sub round, trace mica, sample color 2.5Y5/2, acid reactivity is very slight.
20111030	C8104 B2FB03 41'- 43'	S11V005128	7/12/2011	Tube is full, slightly moist, (m)gS slightly muddy gravelly sand, poorly sorted, abundant hard brittle clasts, Hackley texture, largest particles are 32mm, 30mm, 21mm, 22mm, 25mm, 15mm, 23mm all excluded they were sub rounded, sample color is 2.5Y5/3, acid reactivity is slight to moderate. Note: samples were extruded at WSCF and 1M HCL acid was used.
20111030	C8104 B2FB04 41'- 43'	S11V005129	7/12/2011	Tube is full, slightly moist, (m)sG slightly muddy sandy gravel, poorly sorted, abundant hard clasts, hackley texture, grades very fine to coarse gravel, trace of clay, largest particles 25mm, 20mm, 14mm, 19mm all exlcuded they were sub rounded, sample color is 2.5Y4/2, acid reactivity is moderate. Note: samples were extruded at WSCF and 1M HCL acid was used.
20111030	C8104 B2FB05 41'- 43'	S11V005130	7/12/2011	Top of liner is full, bottom has depression of 5mm, slightly moist, gS gravelly sand, poorly sorted, sub angular to sub round, caliche is interbedded throughout, largest particles 22mm, 18mm excluded and were sub round to sub angular, sample color 2.5Y6/2, acid reactivity is slight to moderate. Note: samples were extruded at WSCF and 1M HCL acid was used.
20111030	C8104 B2FB02 41'- 43'	S11V005131	7/12/2011	Slightly moist, (g)S slightly gravelly sand, poorly sorted, very fine to coarse sand with abundant silt, sub angular to sub round, sample color is 2.5Y4/2, acid reactivity is slight to moderate. Note: samples were extruded at WSCF and 1M HCL acid was used.
20111030	C8104 B2FB07 93'- 95'	S11V005146	7/14/2011	Tube is full, dark skins from liner wall, very slightly moist, S sand, slight salt and pepper texture, minor amounts of very fine gravel, sub angular to sub round, poorly sorted, very fine to very coarse grain sand, minor amounts of coarse silt, little or no clay, largest particle 6mm, trace mica, sample color 2.5Y6/2, acid reactivity is very slight. NOTE: sample extruded at WSCF, used 1M HCL for acid.
20111030	C8104 B2FB08 93'- 95'	S11V005147	7/14/2011	Tube is full, dark skins from liner walls, slightly moist, S sand, slight salt and pepper texture, minor very fine gravel, poorly sorted, very fine to very coarse grain sand, slight increase in the very fine to silt fraction. little or no clay, largest particle 8mm, sub angular to sub round, trace mica, sample color 2.5Y7/1, acid reactivity is very slight. NOTE: sample extruded at WSCF, used 1M HCL for acid.

C Farm Core 8104 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20111030	C8104 B2FB09 93'- 95'	S11V005148	7/14/2011	Tube is full, top 25mm of liner is moist the remaining sample in liner is very slightly moist, S sand, poorly sorted, salt and pepper texture, predominately medium to very coarse sand with trace of gravel, abundant silt, little or no clay, largest particle 6mm, sub angular to sub round, trace mica, sample color 2.5Y5/2, acid reactivity is slight. NOTE: sample extruded at WSCF, used 1M HCL for acid.
20111030	C8104 B2FB06 93'- 95'	S11V005149	7/14/2011	Very slightly moist, S sand, poorly sorted, predominately medium to very coarse grain sand, abundant silt, trace gravel, little or no clay. largest particle 4mm, sub angular, trace mica, sample color 2.5Y7/1, acid reactivity slight. NOTE: sample extruded at WSCF, used 1M HCL for acid.
20111030	C8104 B2FB11 117'-119'	S11V005164	7/18/2011	Tube is full, moist, (m)S slightly muddy sand, poorly sorted, salt and pepper texture, predominately fine to coarse grain with minor very coarse grain sand, sub angular to sub round, little or no clay, sample color 2.5Y4/2, acid reactivity is slight. NOTE: sample was extruded at WSCF, 1M HCL acid was used.
20111030	C8104 B2FB12 117'-119'	S11V005165	7/18/2011	Tube is full, moist, (m)S slightly muddy sand, salt and pepper texture, poorly sorted, predominately fine to coarse grain sand with minor very coarse grain sand with slight increase in very fine grain sand, little or no clay, trace mica, sample color 2.5Y4/2, acid reactivity is slight. NOTE: sample was extruded at WSCF, 1M HCL acid was used.
20111030	C8104 B2FB13 117'-119'	S11V005166	7/18/2011	Tube is full, moist, S sand, black skins from liner walls, salt and pepper texture, poorly sorted, predominately fine to coarse grain with minor very coarse grain sand, little or no clay, 1 piece of medium gravel, largest particle 14mm excluded was sub round, trace gravel, trace mica, sample color 2.5Y4/2, acid reactivity is moderate. NOTE: sample was extruded at WSCF, 1M HCL acid was used.
20111030	C8104 B2FB10 117'-119'	S11V005167	7/18/2011	Moist, (m)S slightly muddy sand, predominately fine to coarse grain sand, moderately well sorted, salt and pepper texture, sub angular to sub round, sample color 2.5Y4/2, acid reactivity is very slight. NOTE: sample was extruded at WSCF, 1M HCL acid was used.
20111030	C8104 B2FB15 157'- 159'	S11V005182	7/19/2011	Tube is full, slightly moist, (m)S slightly muddy sand, slight salt and pepper texture, moderately well sorted, very fine to coarse grain sand, sub angular to sub rounded, trace mica, sample color 2.5Y5/2, acid reactivity is slight. NOTE: sample extruded at WSCF, 1M HCL acid used.
20111030	C8104 B2FB16 157'- 159'	S11V005183	7/19/2011	Tube is full, slightly moist to moist, mS muddy sand, black skins from liner walls, moderately well sorted, becoming finer grain in this liner, predominately very fine to medium grain sand with minor amounts of very coarse grain, largest particle 2mm, trace mica, sample color 2.5Y5/2, acid reactivity is slight to moderate. NOTE: sample extruded at WSCF, 1M HCL acid used.

C Farm Core 8104 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20111030	C8104 B2FB17 157'- 159'	S11V005184	7/19/2011	Tube is full, slightly moist, mS muddy sand, Bottom 20mm of liner is gravelly sand, gravel is subround to sub angular, poorly sorted, largest particle is 7mm, a trace of fine gravel, acid reactivity for bottom 20mm of liner is slight to moderate, the remaining sample - moderately well sorted, salt and pepper texture, sub round to sub angular, predominately very fine to medium grain sand with minor amounts of coarse grain sand, little or no clay, trace mica, acid reactivity for this section of liner is slight, sample color is 2.5Y5/2 for whole sample. NOTE: sample extruded at WSCF, 1M HCL acid used.
20111030	C8104 B2FB14 157'- 159'	S11V005185	7/19/2011	Sightly moist, (m)S slightly muddy sand, moderately well sorted, salt and pepper texture, very fine to coarse grain sand, sub angular to sub round, little or no clay, sample color 2.5Y5/2, acid reactivity slight. NOTE: sample extruded at WSCF, 1M HCL acid used.

C Farm 2011, C8104 Photographic Log

Figure A-1: Core 8104, Sample B2FPF1, Surface

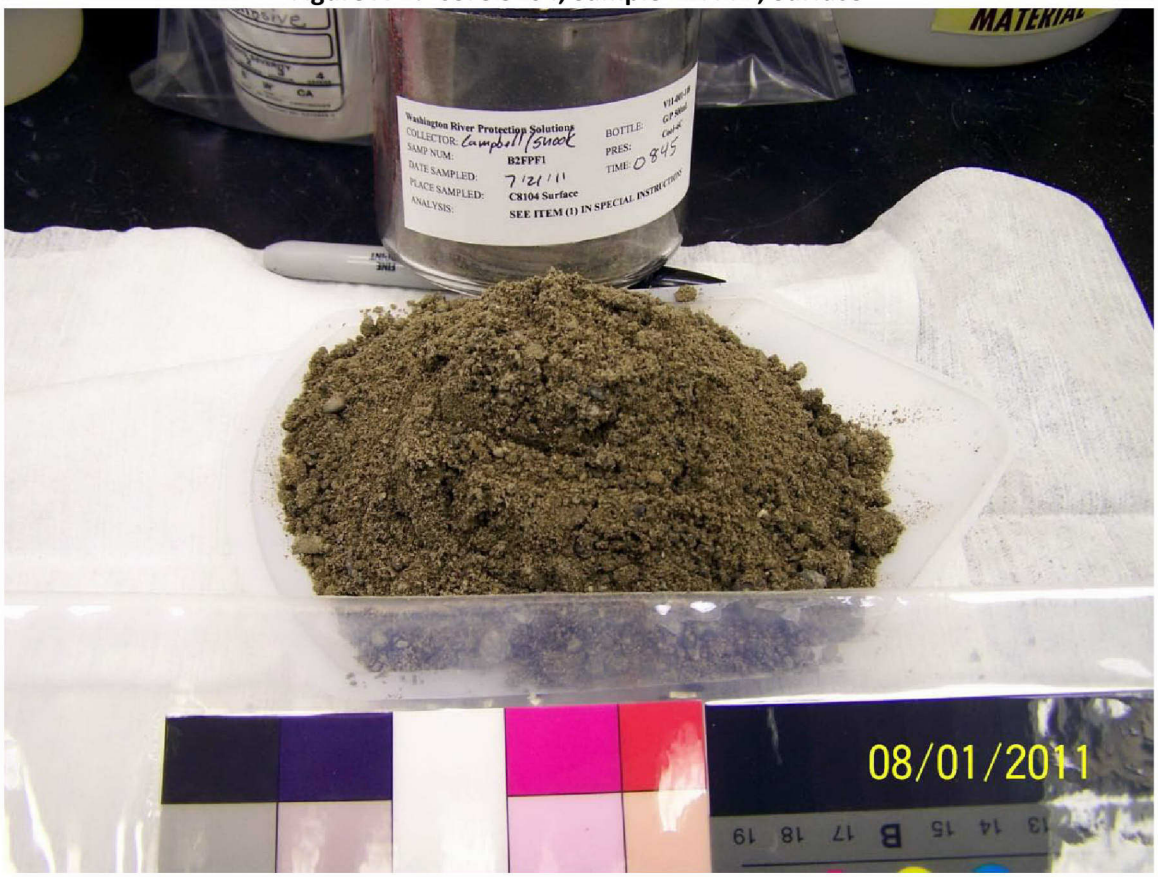


Figure A-2: Core 8104, Sample B2FPF2, Surface Duplicate

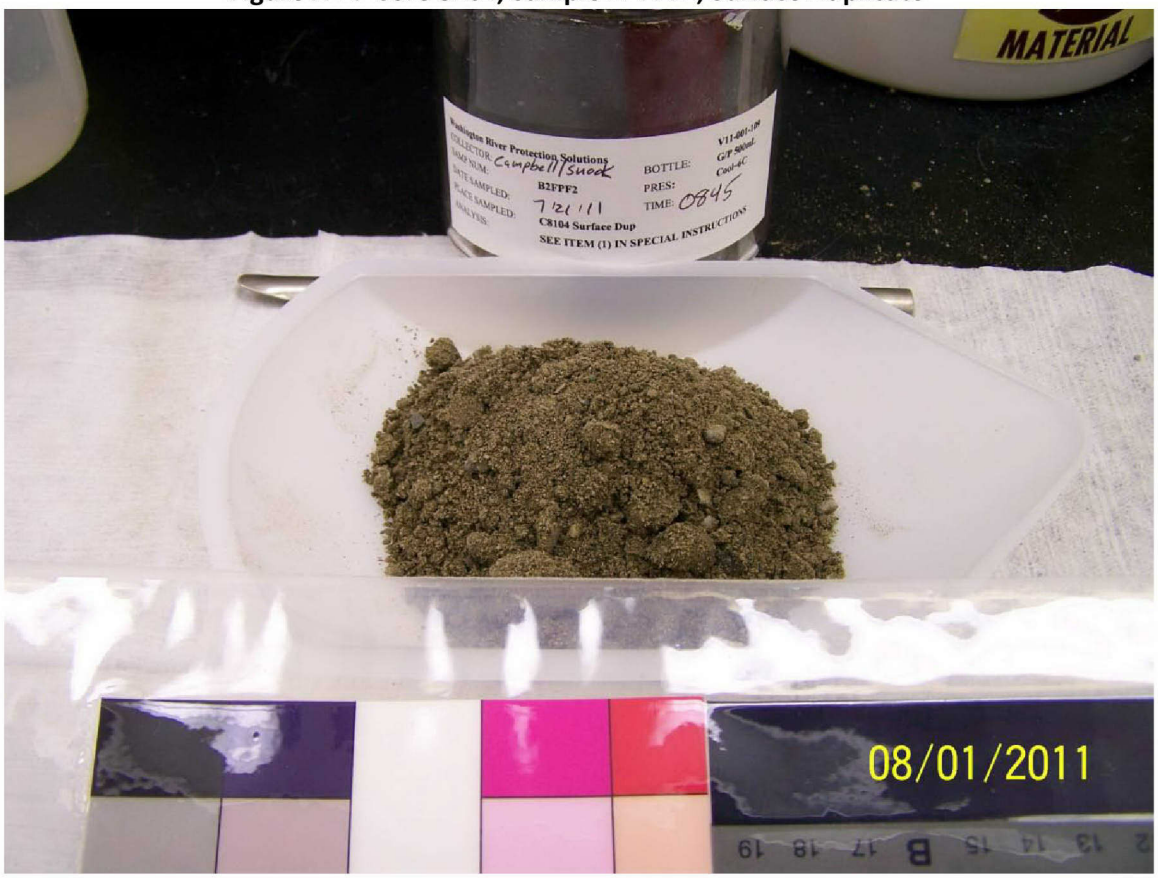


Figure A-3: Core 8104, I001, Sample B2F9X6, Shoe

Figure A-4: Core 8104, I001, Sample B2F9Y6, Liner A

Figure A-5: Core 8104, I001, Sample B2F9Y7, Liner B

Figure A-6: Core 8104, I001, Sample B2F9Y8, Liner C

Figure A-7: Core 8104, I002, Sample B2F9X7, Shoe

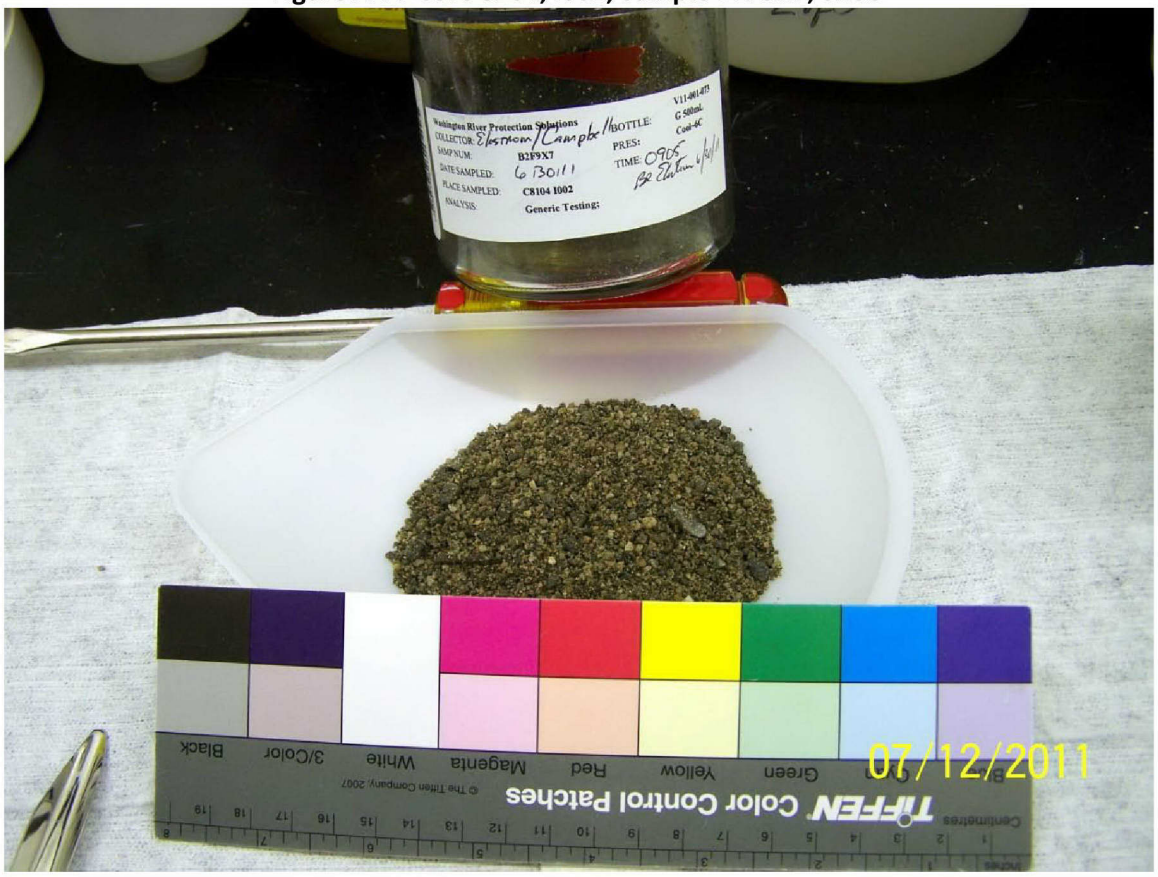


Figure A-8: Core 8104, I002, Sample B2F9Y9, Liner A

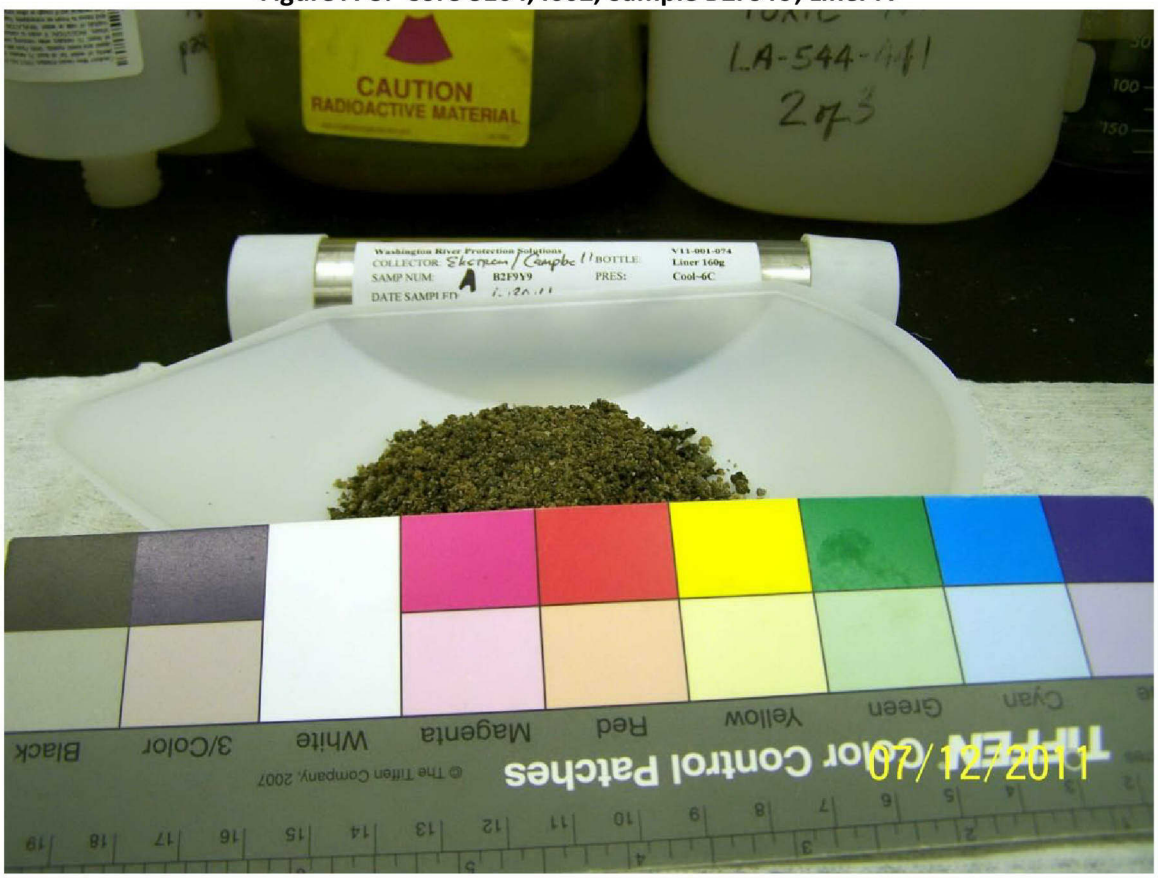


Figure A-9: Core 8104, I003, Sample B2F9X8, Shoe

Figure A-10: Core 8104, I003, Sample B2F9X9, Liner A

Figure A-11: Core 8104, I003, Sample B2F9Y0, Liner B

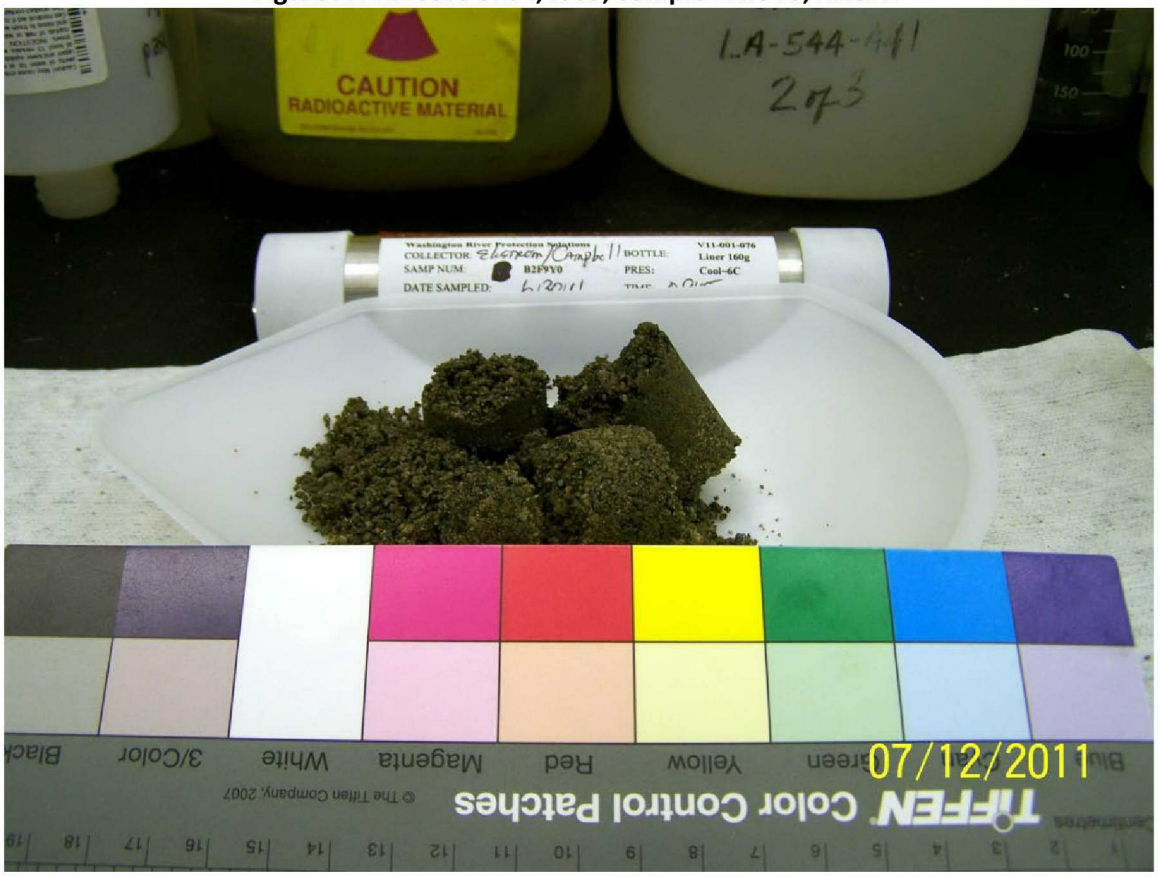


Figure A-12: Core 8104, I004, Sample B2F9Y2, Shoe

Figure A-13: Core 8104, I004, Sample B2F9Y3, Liner A

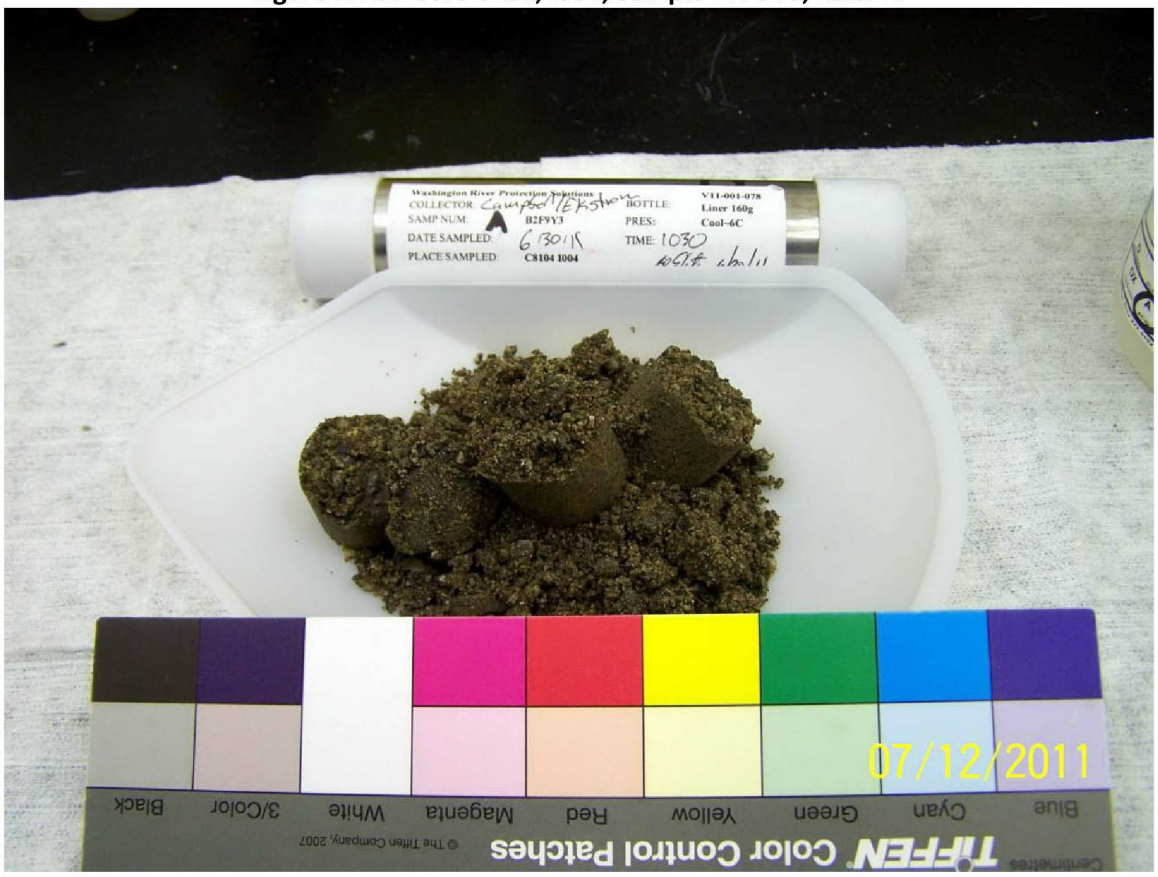


Figure A-14: Core 8104, I004, Sample B2F9Y4, Liner B

Figure A-15: Core 8104, I004, Sample B2F9Y5, Liner C

Figure A-16: Core 8104, I005, Sample B2FB02, Shoe

Figure A-17: Core 8104, I005, Sample B2FB03, Liner A

Figure A-18: Core 8104, I005, Sample B2FB04, Liner B

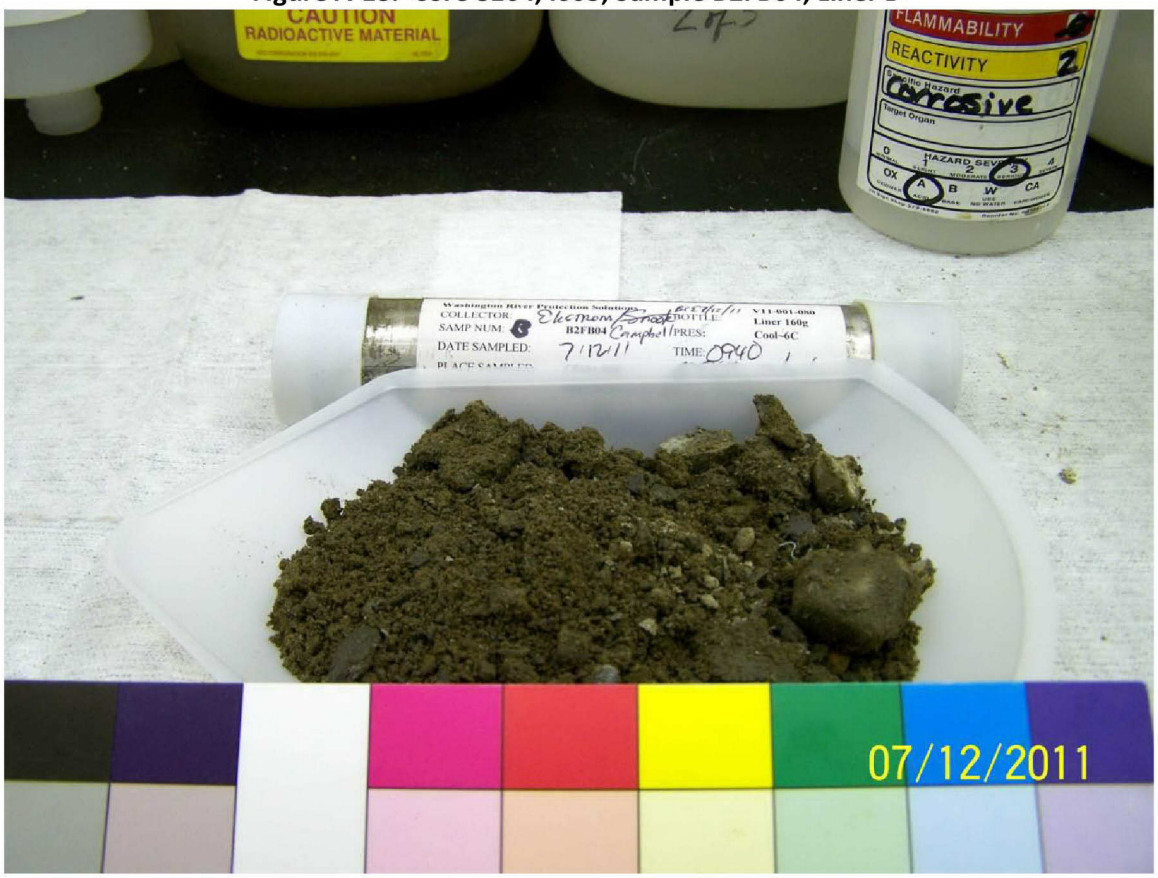


Figure A-19: Core 8104, I005, Sample B2FB05, Liner C

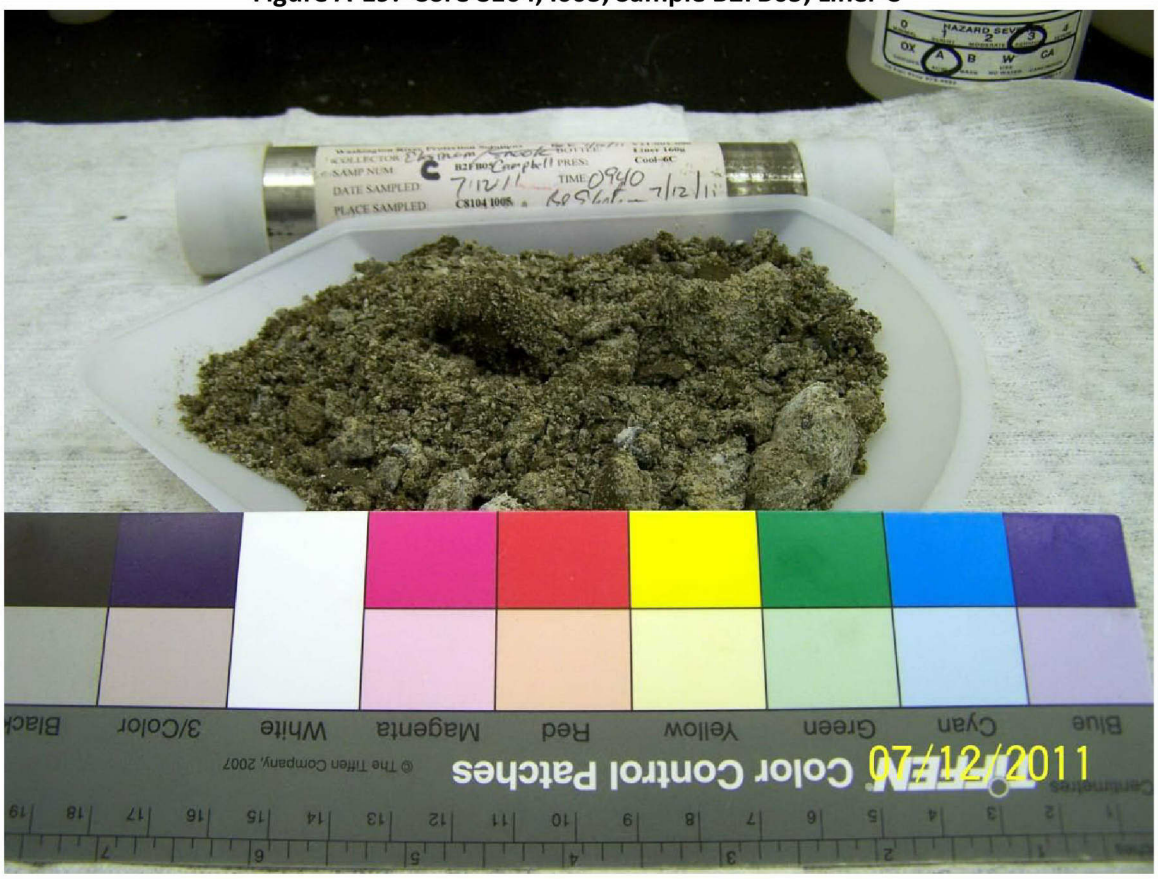


Figure A-20: Core 8104, I006, Sample B2FB06, Shoe

Figure A-21: Core 8104, I006, Sample B2FB07, Liner A

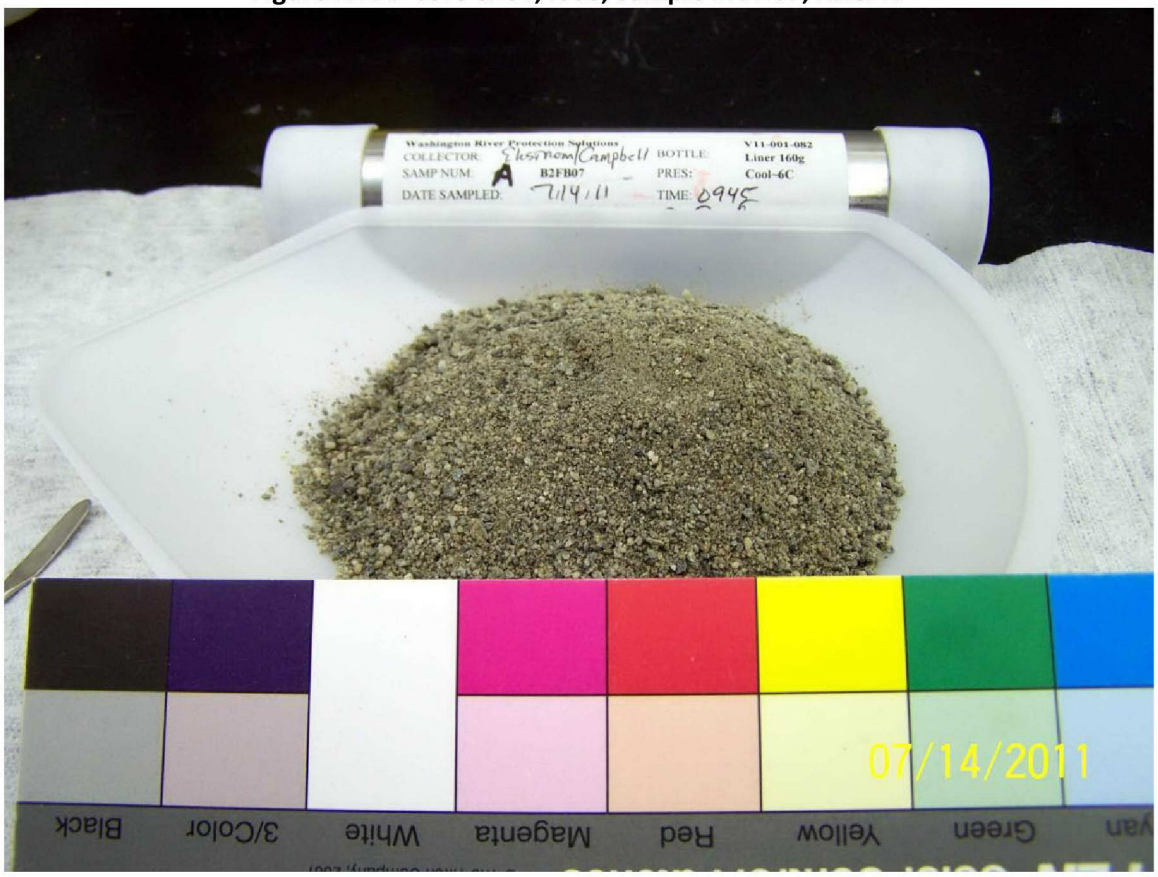


Figure A-22: Core 8104, I006, Sample B2FB08, Liner B

Figure A-23: Core 8104, I006, Sample B2FB09, Liner C

Figure A-24: Core 8104, I007, Sample B2FB10, Shoe

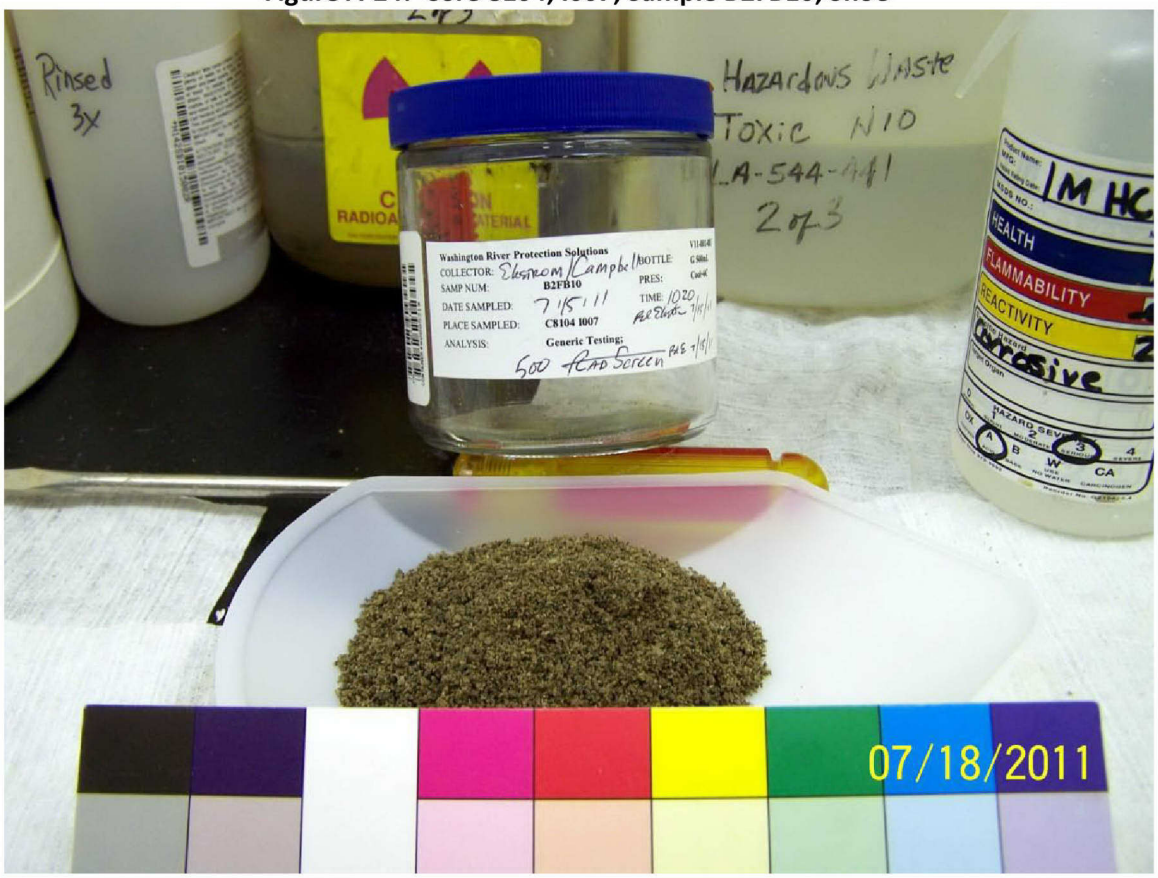


Figure A-25: Core 8104, I007, Sample B2FB11, Liner A

Figure A-26: Core 8104, I007, Sample B2FB12, Liner B

Figure A-27: Core 8104, I007, Sample B2FB13, Liner C

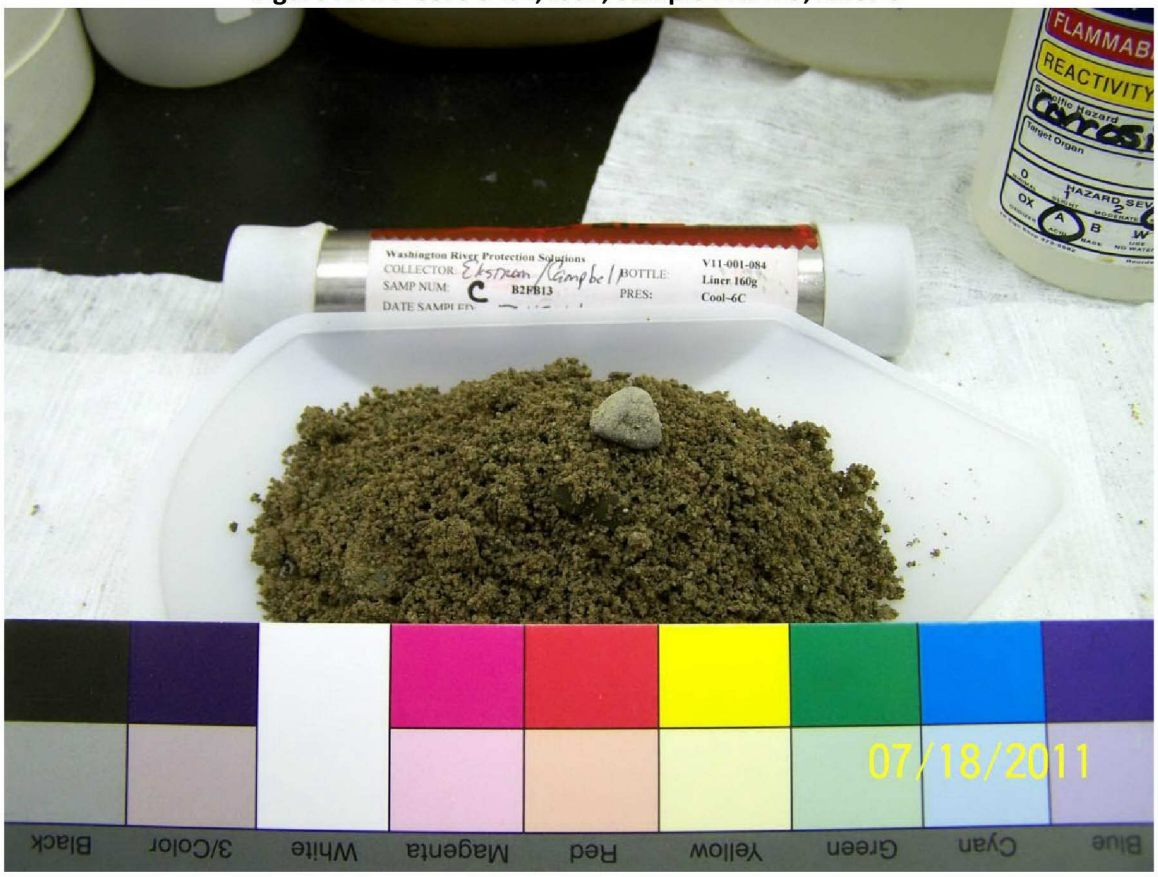


Figure A-28: Core 8104, I008, Sample B2FB14, Shoe

Figure A-29: Core 8104, I008, Sample B2FB15, Liner A

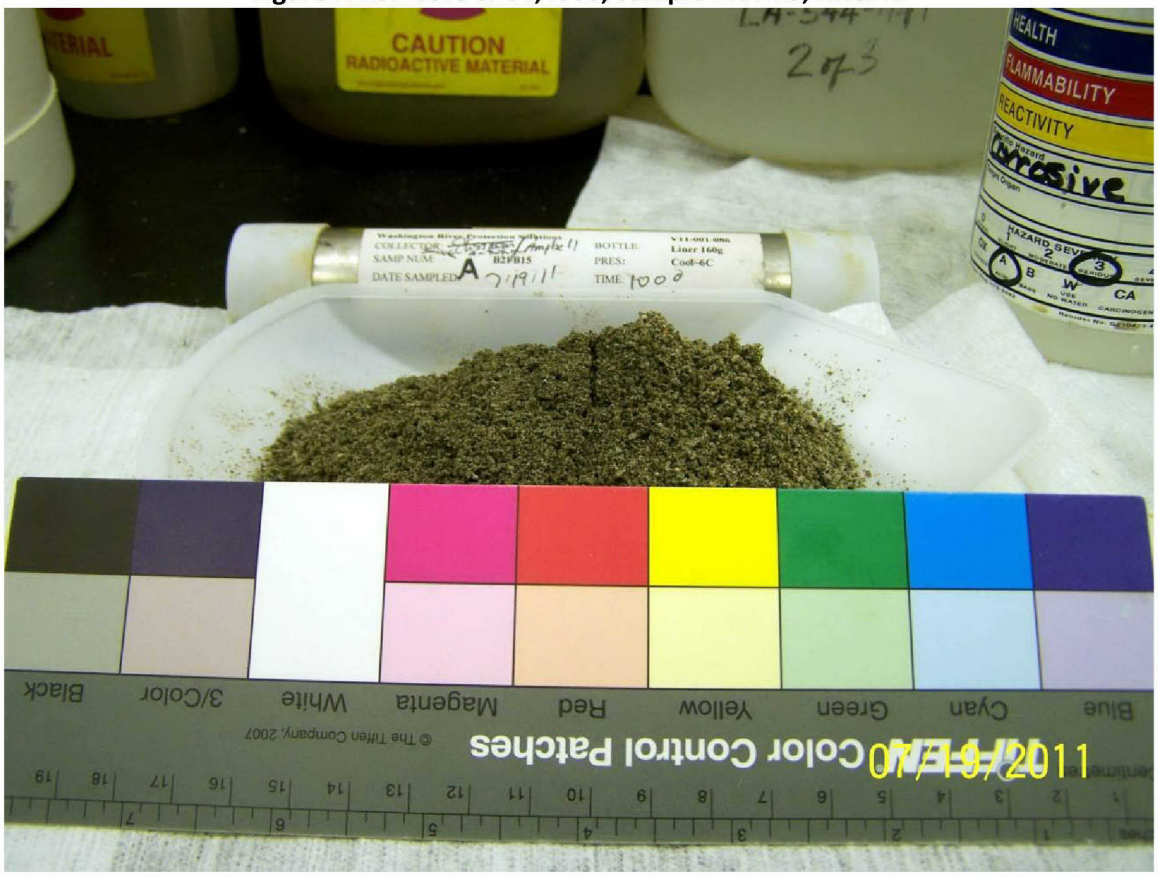
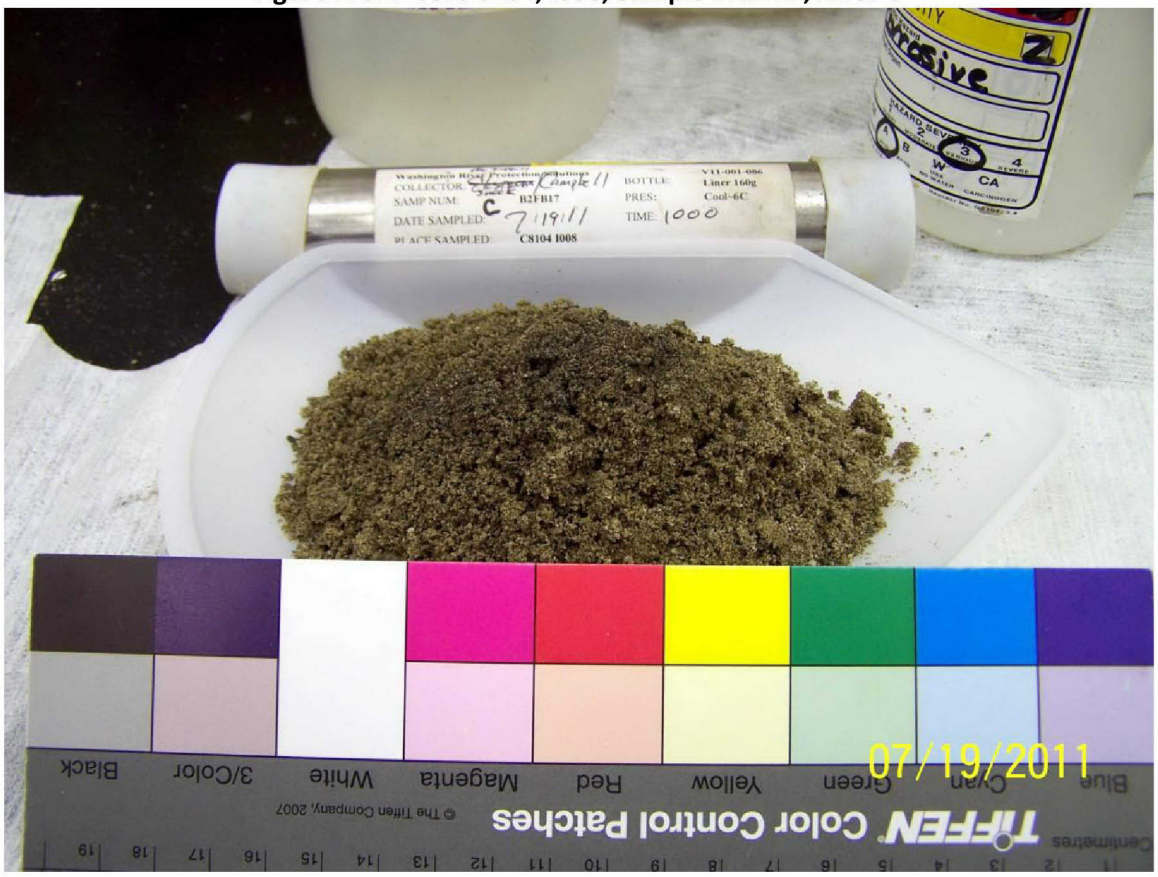


Figure A-30: Core 8104, I008, Sample B2FB16, Liner B

Figure A-31: Core 8104, I008, Sample B2FB17, Liner C



C Farm Core 8106 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20111362	C8106 B2FPR7 Surface	S11V005857	10/26/2011	Slighly moist, (m)S slightly muddy sand, moderately well sorted, slightly cohesive, uniform color and texture, fine to very fine sand, coarse silt, little or no clay, trace of fine gravel, largest particle 5mm, gravel is rounded to sub rounded, trace mica, sample color 2.5Y4/3, acid reactivity vigorous.
20111362	C8106 B2FPR8 Surface Dup	S11V005871	10/26/2011	Very slighly moist, (m)S slightly muddy sand, moderately well sorted, slightly cohesive, uniform color and texture, fine to very fine sand, coarse silt, little or no clay, trace of fine gravel, largest particle 6mm, gravel is rounded to sub rounded, One irregular cemented piece of sand with a glossy white surface on one side, cemented sand reacts to acid white surface does not, white fragment appears to be angular piece of chert, trace mica, sample color 2.5Y4/3, acid reactivity vigorous.
20111362	C8106 B2FPT0 11'- 13'	S11V005883	10/27/2011	Irregular moist gap in top of liner, 15mm deep, bottom is over packed, on average tube is full may have been internal gaps, wet with free moist on top and bottom, sticky wet mud and sand extrudes easily, top is more muddy than bottom, gas bubbles in mud, wet, S sand on bottom about 50mm up changes to M mud, sand is medium grained, well sorted sand, mud is either interbedded with sand or mixed from layer above, mud is uniform mix of clay and silt, somewhat cohesive, non plastic, hackley fracture, salt and pepper texture, largest particle 2mm, trace mica, sample color 2.5Y4/2 for mud, sample color 2.5Y3/2 for sand, acid reactivity moderate.
20111362	C8106 B2FPT1 11'- 13'	S11V005884	10/27/2011	Tube has irregular gaps top and bottom, extrudes easily, Wet, M mud, wetter toward bottom, thin sand layer at top, mud is uniform mix of clay and silt, slightly cohesive, non plastic, hackley fracture, clasts break easily, sand in top 10mm is medium grained, salt and pepper texture, trace mica, sample color 2.5Y4/2, acid reactivity vigorous.
20111362	C8106 B2FPT2 11'- 13'	S11V005885	10/27/2011	Tube is nearly empty, 30 mm of sample in bottom, moist, (m)gS slightly muddy gravely sand, poorly sorted sand, with several large rock fragments, largest particle 19mm it was a piece of sub rounded basalt excluded, other fine gravel and coarse sand, sub rounded to sub angular, minor silt, little or no clay, slight salt and pepper texture, non cohesive, sample color 2.5Y3.3, acid reactivity moderate.
20111362	C8106 B2FPR9 11'- 13'	S11V005886	10/27/2011	Moist, sample mostly S sand,medium grain sand, salt and pepper texture with 20mm intact plug of M mud, mud is uniform color and texture, very slightly cohesive, clasts break easily, mostly silt and fine sand, minor clay. Sand is moderately well sorted, salt and pepper texture, larges particle is 1mm, trace mica, sample color 2.5Y4/2 for mud, sample color for sand is 2.5Y3/2, acid reactivity for the sand slight, acid reactivity for the mud is slight
20111362	C8106 B2FPT4 19'- 21'	S11V005902	10/27/2011	Irregular depression on top 5mm deep, bottom is full, bottom appears sandier than top, moist, S sand for bottom 75mm, top 75 mm is sM sandy mud. Sand is medium grained, moderately well sorted, salt and pepper texture, largest particle 2mm, trace mica. Sandy mud is poorly sorted, mostly coarse silt to fine gravel, minor clay, gravel is sub rounded to sub angular, clasts break easily, very slightly cohesive, uniform color and texture, largest particle 7mm, trace mica, sample color 2.5Y3/3, sample color for sand 2.5Y3/2, acid reactivity for sandy mud slight to moderate, acid reactivity for sand slight.

C Farm Core 8106 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20111362	C8106 B2FPT5 19'- 21'	S11V005903	10/27/2011	Tube is full, bulge at top equal size gap at bottom, sample extrudes easily, scattered small gas bubbles, Wet, M mud, predominately silt, minor clay, trace fine sand, slightly cohesive, hackley fracture, clasts break easily, uniform color texture, moderately well sorted, sand is fine to very fine, trace mica, sample color 2.5Y3/3, acid reactivity slight.
20111362	C8106 B2FPT6 19'- 21'	S11V005904	10/27/2011	Top is full, irregular gap at bottom up to 4mm deep, Slightly moist, (m)S slightly muddy sand, moderately well sorted fine sand with coarse silt and minor medium sand, slight salt and pepper texture, very slightly cohesive, slightly muddier toward bottom, largest particle 1mm, trace mica, sample color 2.5Y4/2, acid reactivity slight to moderate.
20111362	C8106 B2FPT3 19'- 21'	S11V005905	10/27/2011	Very slightly moist, S sand, non cohesive, medium grained sand, moderately well sorted, uniform color and texture, minor silt, little or no clay, no gravel, trace coarse sand, largest particle <1mm, trace mica, sample color 2.5Y4/3, acid reactivity slight to moderate.
20111362	C8106 B2FPT8 27'- 29'	S11V005921	10/27/2011	Tube is full, Dry, S sand, moderately well sorted, fine to coarse sand, uniform color texture, some dark skins from liner walls, non cohesive, trace gravel, trace coarse silt, largest particle 4mm, angular to sub angular, trace mica, sample color 2.5Y5/2, acid reactivity slight.
20111362	C8106 B2FPT9 27'- 29'	S11V005922	10/27/2011	Tube is full, Very slightly moist, (m)S slightly muddy sand, somewhat poorly sorted, uniform color and texture, medium to coarse grain sand, with minor fine sand and silt, some mud clasts, break easily, non cohesive, coarsest grains angular to sub angular, no gravel, largest particle 2mm, trace mica, sample color 2.5Y4/2, acid reactivity slight.
20111362	C8106 B2FPV0 27'- 29'	S11V005923	10/27/2011	Tube is full, approximately 2mm bulge at top, first 40mm from bottom is S sand, remainder is M mud, Slightly moist, sand is poorly sorted, medium to coarse grain, largest particle 2mm, no gravel, gradual transition to mud, mud is very slightly cohesive, clasts break easily, uniform color and texture, mostly silt with minor clay, trace mica, sample color for mud 2.5Y4/3, acid reactivity slight to moderate.
20111362	C8106 B2FPT7 27'- 29'	S11V005924	10/27/2011	Very slightly moist, S sand, moderately well sorted, medium grained sand, non cohesive, uniform color and texture, trace silt, little or no clay, trace gravel, coarse grains are angular to sub angular, largest particle 6mm, trace mica, sample color 2.5Y5/3, acid reactivity very slight.
20111362	C8106 B2FPV2 64'- 66'	S11V005940	11/9/2011	Tube is full, slightly moist, gS gravelly sand, somewhat poorly sorted, fine to very coarse sand with gravel, sand is mostly medium to very coarse, little or no mud, non cohesive, slight salt and pepper texture, coarse grains are angular to sub rounded largest particle 13mm, some white caliche cement, trace mica, sample color 2.5Y5/2, acid reactivity moderate.
20111362	C8106 B2FPV3 64'- 66'	S11V005941	11/9/2011	Tube is full, slightly moist, gS gravelly sand, somewhat poorly sorted, fine to very coarse sand with gravel, sand is mostly medium to very coarse, little or no mud, non cohesive, slight salt and pepper texture, coarse grains are angular to sub angular, largest particle 9mm, trace mica, sample color 2.5Y5/2, acid reactivity very slight.

C Farm Core 8106 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20111362	C8106 B2FPV4 64'- 66'	S11V005942	11/9/2011	Tube is full, very slightly moist, gS gravelly sand, somewhat poorly sorted, fine to very coarse sand with gravel, sand is mostly medium to very coarse, little or no mud, non cohesive, slight salt and pepper texture, coarse grains are angular to sub angular, largest particle 8mm, trace mica, sample color 2.5Y5/1, acid reactivity very slight.
20111362	C8106 B2FPV1 64'- 66'	S11V005943	11/9/2011	Very slightly moist, gS gravelly sand, somewhat poorly sorted, fine to very coarse sand with gravel, sand is mostly medium to very coarse, little or no mud, non cohesive, slight salt and pepper texture, coarse grains are angular to sub rounded, largest particle 16mm excluded, trace mica, sample color 2.5Y5/2, acid reactivity slight.
20111362	C8106 B2FPTV6 90'- 92'	S11V005959	11/9/2011	Tube is full, sample poured from liner with moderate rapping on side, very slightly moist, (g)S slightly gravelly sand, moderately well sorted, medium to coarse grain sand with minor gravel, angular to sub angular, non cohesive, salt and pepper texture, sand is predominately medium to very coarse, no mud, largest particle 8mm, trace mica, sample color 2.5Y6/1, acid reactivity very slight.
20111362	C8106 B2FPTV7 90'- 92'	S11V005960	11/9/2011	Top of liner is over full about 2mm, bottom of liner is full, sample poured from liner with moderate rapping on side of liner, dry, gS gravelly sand, moderately well sorted, medium to very coarse grain sand with minor gravel, angular to sub rounded, non cohesive, slight salt and pepper texture, sand is predominately medium to very coarse, no mud, largest particle 16mm, trace mica, sample color 2.5Y5/1, acid reactivity slight.
20111362	C8106 B2FPV8 90'- 92'	S11V005961	11/9/2011	Loose sand,10mm gap in top, material fell out of bottom, sample poured from liner with light rapping and poking, very slightly moist, gS gravelly sand, moderately well sorted, medium to very coarse grain sand with minor gravel, angular to sub rounded, non cohesive, slight salt and pepper texture, sand is predominately medium to very coarse, no mud, largest particle 15mm excluded, trace mica, sample color 2.5Y6/2, acid reactivity slight to moderate.
20111362	C8106 B2FPW0 132'- 134'	S11V005978	11/9/2011	Tube is full, very slightly moist, sample digs out easily, (g)S slightly gravelly sand, moderately well sorted, medium to very coarse grain sand with minor gravel, angular to sub rounded, non cohesive, slight salt and pepper texture, sand is predominately medium to very coarse, no mud, largest particle 13mm, trace mica, sample color 2.5Y5/2, acid reactivity very slight.
20111362	C8106 B2FPW1 132'- 134'	S11V005979	11/9/2011	Top is full, 15mm gap at bottom, sample pours out easily after slight digging loosens piece of gravel, slightly moist, gS gravelly sand, somewhat poorly sorted, medium sand to gravel (up to coarse pebbles), angular to sub rounded, non cohesive, salt and pepper texture, sand is predominately medium to very coarse, no mud, largest particle 20mm excluded, trace mica, sample color 2.5Y5/1, acid reactivity very slight.

C Farm Core 8106 Geologic Descriptions

Sample Group	Sample ID	Laboratory ID	Date Examined	Description
20111362	C8106 B2FPW2 132'- 134'	S11V005980	11/9/2011	Top is full, bottom has 50mm gap, sample pours out easily with moderate rapping on side of liner, very slightly moist, gS gravelly sand, somewhat poorly sorted, medium sand to gravel (up to coarse pebbles), angular to sub rounded, non cohesive, slight salt and pepper texture, sand is predominately medium to very coarse, no mud, largest particles 20mm and 18mm angular fragments, largest is white chert both excluded, trace mica, sample color 2.5Y6/2, acid reactivity slight.
20111362	C8106 B2FPV9 132'- 134'	S11V005981	11/9/2011	Very slightly moist, gS gravelly sand, somewhat poorly sorted, medium sand to gravel (up to coarse pebbles), angular to sub rounded, non cohesive, slight salt and pepper texture, sand is predominately medium to very coarse, no mud, largest particles 18mm and 15mm basalt fragments excluded, trace mica, sample color 2.5Y5/2, acid reactivity slight to moderate.
20111362	C8106 B2FPW4 161.5'- 163.5'	S11V005997	11/9/2011	Tube is full, some dark skins from liner walls, slightly moist, S sand, moderately well sorted, medium sand, angular to sub angular, slighlty cohesive, sand is predominately fine to coarse, trace mud, no clay, trace gravel, largest particle 3mm, trace mica, sample color 2.5Y5/3, acid reactivity slight to moderate.
20111362	C8106 B2FPW5 161.5'- 163.5'	S11V005998	11/9/2011	Tube is full, some dark skins from liner walls, dry, S sand, moderately well sorted, medium sand, angular to sub angular, non cohesive, sand is predominately fine to very coarse, trace mud, no clay, trace gravel, largest particle 3mm, trace mica some flakes up to 2mm, sample color 2.5Y5/2, acid reactivity slight to moderate.
20111362	C8106 B2FPW6 161.5'- 163.5'	S11V005999	11/9/2011	Tube is full, some dark skins from liner walls, dry, S sand, moderately well sorted, medium sand, angular to sub angular, non cohesive, sand is predominately fine to very coarse, trace mud, no clay, trace gravel, largest particle 17mm excluded next largest particle 3mm, trace mica some flakes up to 1mm, sample color 2.5Y6/2, acid reactivity slight to moderate.
20111362	C8106 B2FPW3 161.5'- 163.5'	S11V006000	11/9/2011	Very slightly moist, S sand, moderately well sorted, medium sand, angular to sub angular, non cohesive, sand is predominately fine to coarse, no clay, largest particle 2mm, trace mica, sample color 2.5Y6/2, acid reactivity moderate.

C Farm 2011, C8106 Photographic Log

Figure A-1: Core 8106, Sample B2FPR7, Surface

Figure A-2: Core 8106, Sample B2FPR8, Surface Duplicate

Figure A-3: Core 8106, I001, Sample B2FPR9, Shoe

Figure A-4: Core 8106, I001, Sample B2FPT0, Liner A

Figure A-5: Core 8106, I001, Sample B2FPT1, Liner B

Figure A-6: Core 8106, I001, Sample B2FPT2, Liner C

Figure A-7: Core 8106, I002, Sample B2FPT3, Shoe

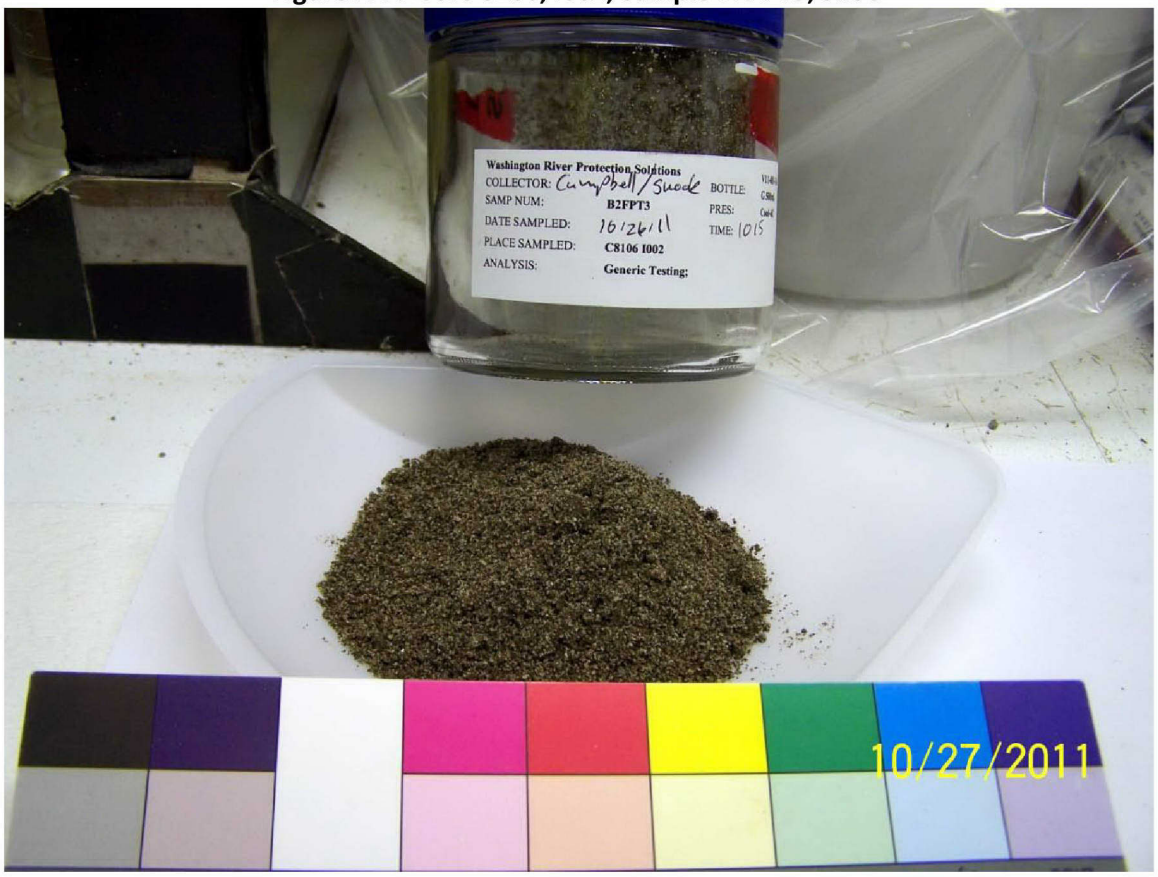


Figure A-8: Core 8106, I002, Sample B2FPT4, Liner A

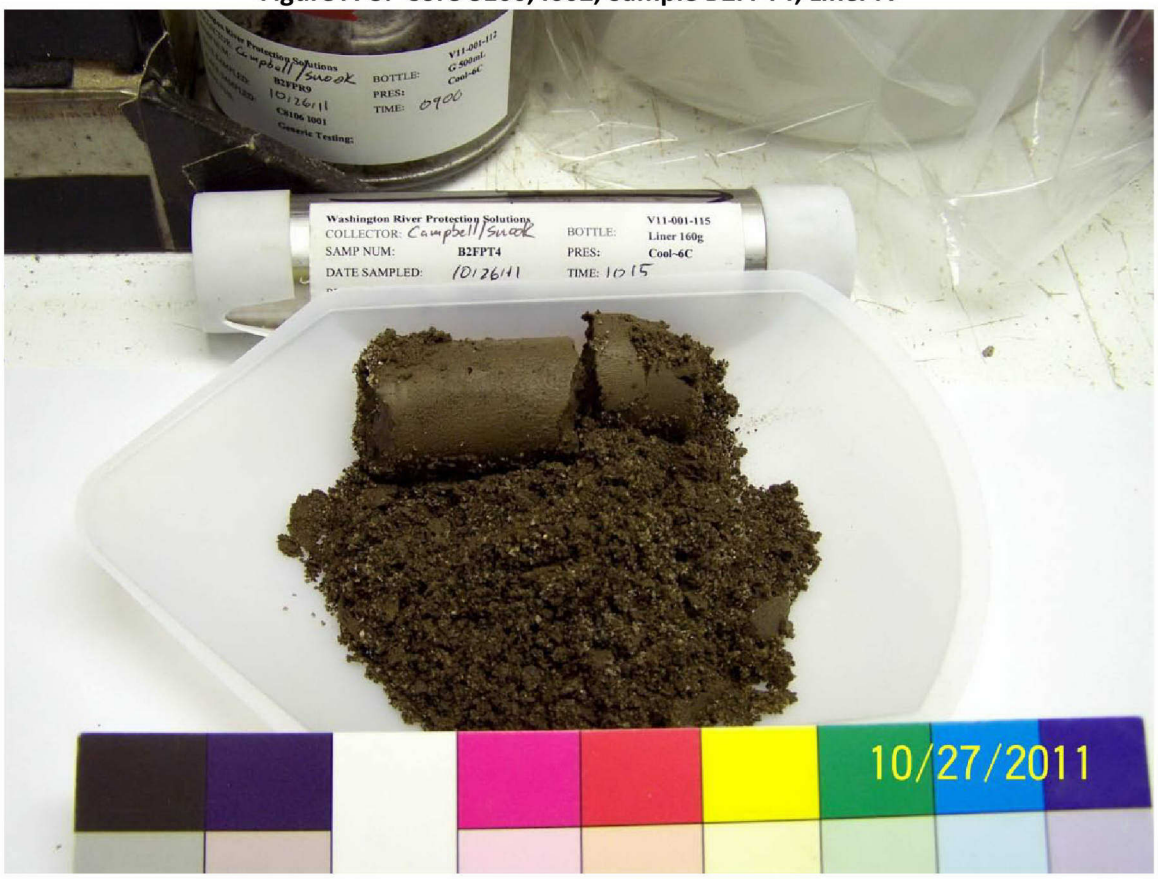


Figure A-9: Core 8106, I002, Sample B2FPT5, Liner B

Figure A-10: Core 8106, I002, Sample B2FPT6, Liner C

Figure A-11: Core 8106, I003, Sample B2FPT7, Shoe

Figure A-12: Core 8106, I003, Sample B2FPT8, Liner A

Figure A-13: Core 8106, I003, Sample B2FPT9, Liner B

Figure A-14: Core 8106, I003, Sample B2FPV0, Liner C

Figure A-15: Core 8106, I004, Sample B2FPV1, Shoe

Figure A-16: Core 8106, I004, Sample B2FPV2, Liner A

Figure A-17: Core 8106, I004, Sample B2FPV3, Liner B

Figure A-18: Core 8106, I004, Sample B2FPV4, Liner C

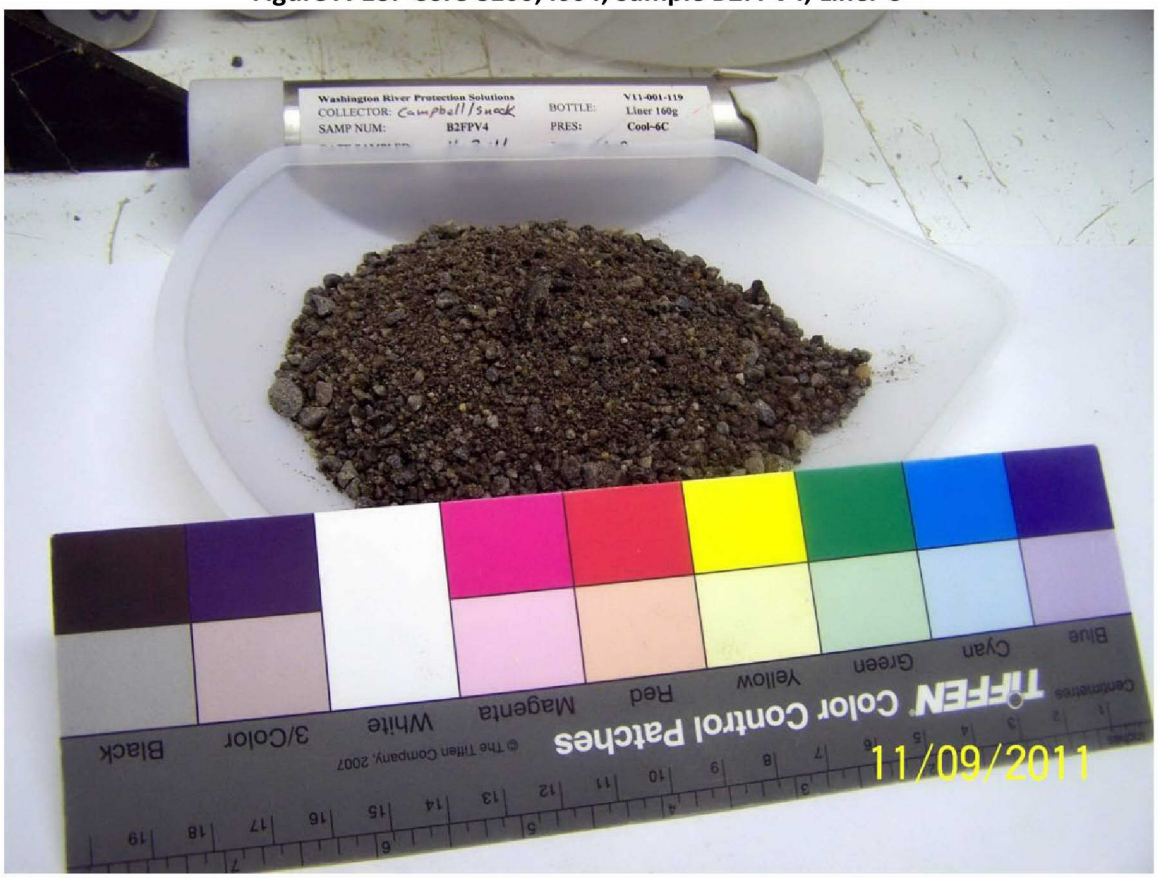


Figure A-19: Core 8106, I005, Sample B2FPV6, Liner A

Figure A-20: Core 8106, I005, Sample B2FPV7, Liner B

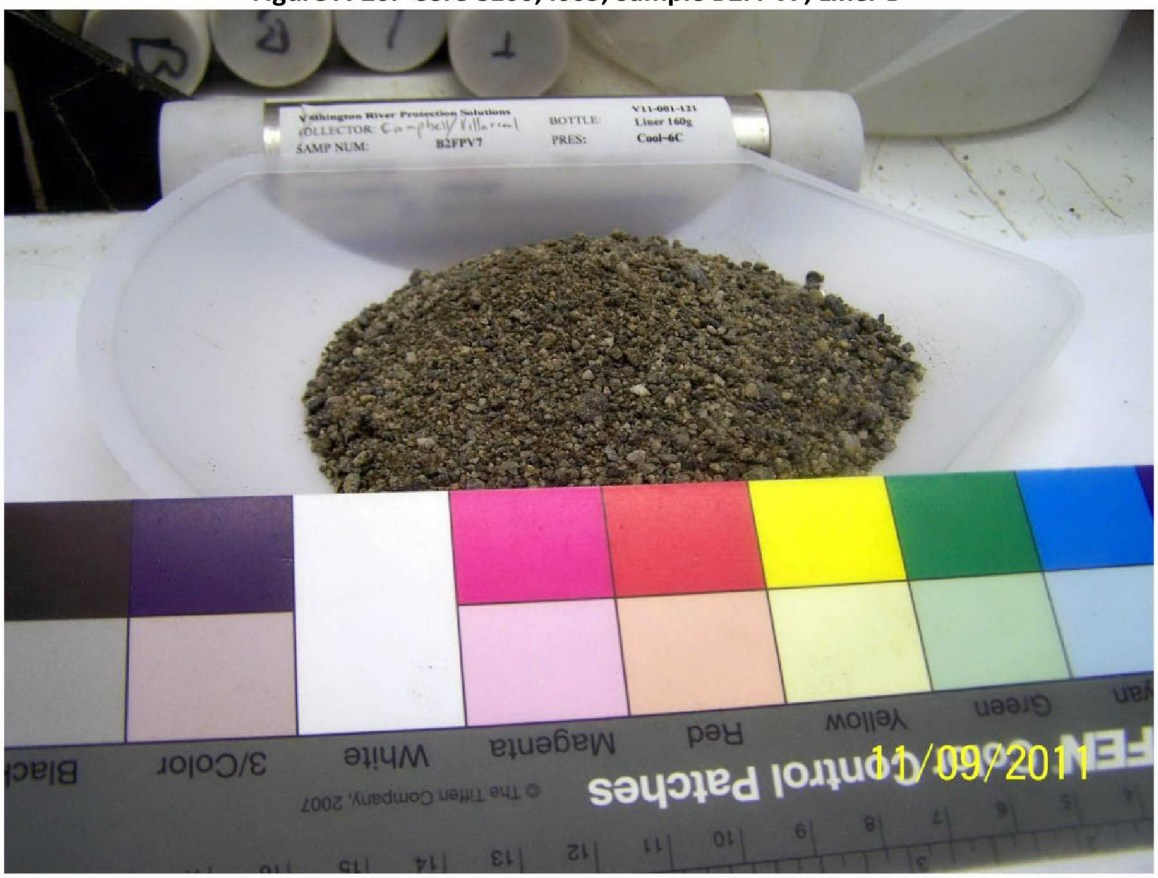


Figure A-21: Core 8106, I005, Sample B2FPV8, Liner C

Figure A-22: Core 8106, I006, Sample B2FPV9, Shoe

Figure A-23: Core 8106, I006, Sample B2FPW0, Liner A

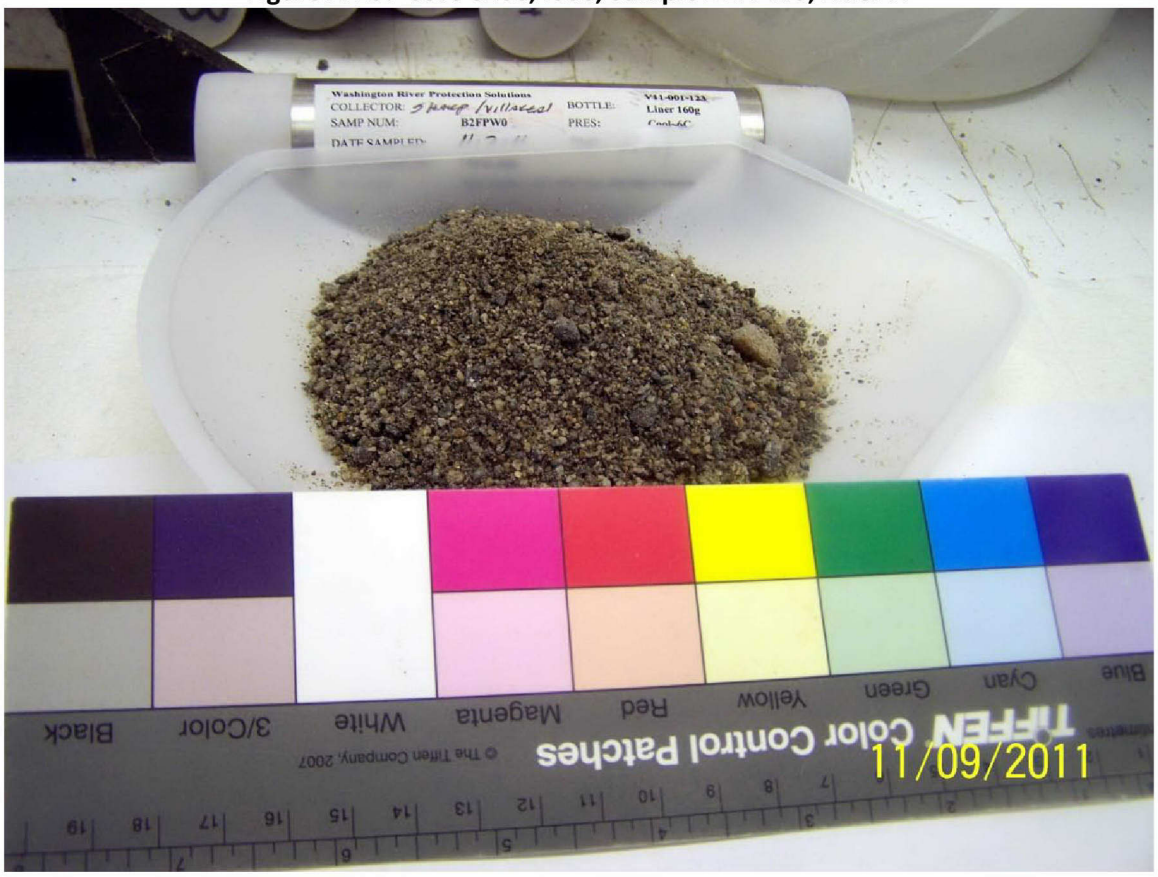


Figure A-24: Core 8106, I006, Sample B2FPW1, Liner B

Figure A-25: Core 8106, I006, Sample B2FPW2, Liner C

Figure A-26: Core 8106, I007, Sample B2FPW3, Shoe

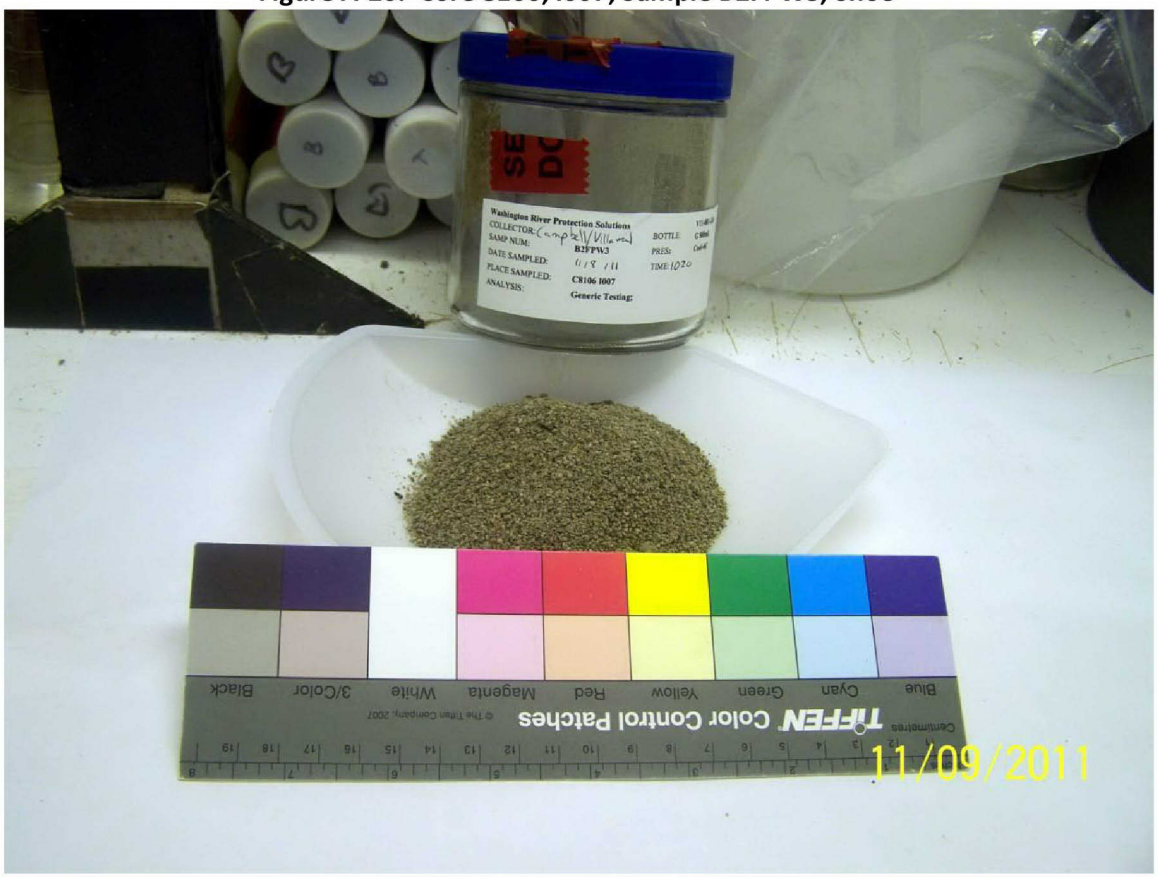


Figure A-27: Core 8106, I007, Sample B2FPW4, Liner A

Figure A-28: Core 8106, I007, Sample B2FPW5, Liner B

Figure A-29: Core 8106, I007, Sample B2FPW6, Liner C

Attachment 8

CHARACTERIZATION CHANGE NOTICES AND CORRESPONDENCE

VADOSE ZONE
CHARACTERIZATION CHANGE NOTICE

Document: RPP-PLAN-40564 Rev 2 **Change Number:** WMAC-020 **ECN to TSAP Required?** Y / N

Requestor: Andrew M. Templeton **Date:** 6-5-11

Original Requirement: At each sample depth, three (3) liner samples and one (1) shoe sample are targeted to be taken. Good recovery is required to perform all of the requested analyses.

Samples Impacted: Samples collected in C Farm at site A, direct push slant borehole, location C8102, 5.7-7.7 ft. bgs (pipe run) and 11.5-13.5 ft. bgs (pipe run).

Proposed Change:

Due to poor sample recovery from 5.7-7.7 ft. bgs (pipe run) an additional sample was collected from 7.7-9.7 ft. bgs (pipe run).

To ensure that we have enough material to do all the analyses, a composite will be prepared from the Shoe, Liner A, Liner B and Liner C from the 5.7-7.7 ft. bgs interval, and the Shoe, Liner A and Liner B from the 7.7-9.7 ft. bgs interval.

Due to poor sample recovery from 11.5-13.5 ft. bgs (pipe run) an additional sample was collected from 13.5-15.5 ft. bgs (pipe run).

To ensure that we have enough material to do all the analyses, a composite will be prepared from the Shoe and Liner A from the 11.5-13.5 ft. bgs interval, and the Shoe, Liner A and Liner B from the 13.5-15.5 ft. bgs interval.

Interval/ Depth (ft)	Composite HEIS Sample Number	Recovery Shoe	HEIS Sample Number	Recovery Liner A	HEIS Sample Number	Recovery Liner B	HEIS Sample Number	Recovery Liner C	HEIS Sample Number
I001/ 5.7-7.7	B2D1X2	100%	B2D1P8	100%	B2D1P9	50%	B2D1R0	15%	B2D1R1
I-002/ 7.7-9.7		100%	B2D1R2	100%	B2D1R3	90%	B2D1R4	0%	B2D1R5
I-003/ 11.5-13.5	B2D1X4	100%	B2D1R6	95%	B2D1R7	0%	B2D1R8	0%	B2D1R9
I-004/ 13.5-15.5		100%	B2D1T0	100%	B2D1T1	20%	B2D1T2	0%	B2D1T3

Reason for Change: Poor sample recovery.

Date Change Effective: 6-5-11

Schedule Impact: None

Authorization:

Characterization Task Lead (Print/Sign): A.M. Templeton	**Date:** 6-9-11
Vadose Zone Quality Assurance (Print/Sign): K.J. Dunbar	**Date:** 6-9-11
222-S Project Coordinator (Print/Sign): S.G. Mckinney	**Date:** 7-18-11
ATL Project Coordinator (Print/Sign): G.P. Ritenour	**Date:** 7-18-2011
Vadose Lab Interface Lead (Print/Sign): H.L. Anastos	**Date:** 6-9-11

cc: S. J. Eberlein, J.R. Prilucik, Dana Stewart, Dave Myers, Penny Berlin, Eric Wyse, Mike Connelly, Harold Sydnor, Cindy Tabor, Ann Shrum, Marcel Bergeron

VADOSE ZONE
CHARACTERIZATION CHANGE NOTICE

Document: RPP-PLAN-40564 Rev 2 **Change Number:** WMAC-021 **ECN to TSAP Required?** Y / N

Requestor: Andrew M. Templeton **Date:** 6-9-11

Original Requirement: At each sample depth, three (3) liner samples and one (1) shoe sample are targeted to be taken. Good recovery is required to perform all of the requested analyses.

Samples Impacted: Samples collected in C Farm at site A, direct push slant borehole, location C8102, 16.1-18.1 ft. (pipe run).

Proposed Change:
Due to poor sample recovery from 16.1-18.1 ft. pipe run (100% in the shoe, 50% in Liner A, 0% in Liner B and 0% in Liner C) an additional sample was attempted from 18.1 to 20.1 ft. (pipe run). There was zero recovery on the 18.1-20.1 ft pipe run sample. The shoe from 16.1-18.1 feet contained 68 grams of soil and Liner A contained 89 grams of soil. Approximately 7 grams was used for the % moisture. The analytical prioritization shown below shall be used, after homogenization, to prioritize the analysis using the remaining sample material of approximately 150 grams.

The gamma scan analysis is not destructive, so that material may be used to perform other radiochemical analyses; therefore, some lower priority radiochemical constituents may be able to be performed. The program understands that SVOA, PCBs and pesticides will likely not be performed due to lack of material and sample storage requirements (the gamma scan aliquot is not maintained refrigerated and cannot be used for SVOA organic analyses).

Analytical Prioritization

Constituents	Grams Needed	Total Grams Needed (Cumulative)
1.TC-99	35	35
2. CN	0.6	35.6
3. Water dig (IC)	5	40.6
4. Acid Dig (ICP & MS)	5	45.6
5. Gamma Scan	80	125.6
6. pH	3	128.6
7. Ammonia	0.3	128.9
8. Hg	0.3	129.2
9. Sr-90	10	139.2
10. Pu-ISO, Am, Cm-ISO	1.5	140.7
11. TC-99 (acid)	5	145.7
12. SVOA	20	165.7
13. Ni-63/Se-79	4	169.7
14. Water dig (H-3)	10	179.7
15. I-129	10	189.7
16. Sb, Sn-126 (acid)	1	190.7
17. PCBs	20	210.7
18. Pesticides	40	250.7
Total	250.7	

Reason for Change: Poor sample recovery.

Date Change Effective: 6-9-11

Schedule Impact: None

Authorization:

Characterization Task Lead (Print/Sign):
A.M. Templeton

Date: 8-23-11

Vadose Zone Quality Assurance (Print/Sign):
K.J. Dunbar

Date: 8-24-11

222-S Project Coordinator (Print/Sign):
S.G. Mckinney

Date: 8-29-11

ATL Project Coordinator (Print/Sign):
G.P. Ritenour

Date: 8-29-2011

Vadose Lab Interface Lead (Print/Sign):
H.L. Anastos

Date: 8-25-11

cc: S. J. Eberlein, J.R. Prilucik, Dana Stewart, Dave Myers, Penny Berlin, Eric Wyse, Mike Connelly, Harold Sydnor, Cindy Tabor, Ann Shrum, Marcel Bergeron

VADOSE ZONE
CHARACTERIZATION CHANGE NOTICE

Document: RPP-PLAN-40564 Rev 2 **Change Number:** WMAC-023 **ECN to TSAP Required?** Y / N

Requestor: Andrew M. Templeton **Date:** 9-15-11

Original Requirement: The laboratory may group all samples from one location as a single preparation batch as needed to optimize the number of samples tested in each batch and that methods meet holding times [for quality control (QC) purposes for short hold time constituents].

This requires QC (duplicates, spikes, spike duplicates, etc.) be performed for each borehole location.

Samples Impacted: Samples collected in C Farm at site A, B and/or C1. (Direct push slant borehole locations C8102, C8104 and C8106).

Proposed Change: The laboratory may group all samples from these locations as a single preparation batch as needed to optimize the number of samples tested in each batch, so long as holding times and HASQARD minimum QC frequencies are met. Soil and QC samples shall be batched separately.

This change allows for maximum batch sizes and does not require QC for each borehole location; however, each preparation batch will have all required QC samples (duplicates, spikes, spike duplicates, etc.).

However, if sampling at C8106 is delayed past October 2012 or cancelled, the other two locations may be reported together and C8106 will be reported separately.

Reason for Change: This change will allow more efficient processing of the samples both in the laboratory and during the data review and reporting.

Date Change Effective: 9-15-11

Schedule Impact: None

Authorization:

Characterization Task Lead (Print/Sign): **Date:**
A.M. Templeton 9-29-11

Vadose Zone Quality Assurance (Print/Sign): **Date:**
K.J. Dunbar 9-29-11

222-S Project Coordinator (Print/Sign): **Date:**
S.G. Mckinney 9-29-11

ATL Project Coordinator (Print/Sign): G.P. Ritenour — **Date:**

Vadose Lab Interface Lead (Print/Sign): H.L. Anastos — **Date:** 9-29-11

cc: S. J. Eberlein, J.R. Prilucik, Dana Stewart, Dave Myers, Penny Berlin, Eric Wyse, Mike Connelly, Harold Sydnor, Cindy Tabor, Ann Shrum, Marcel Bergeron

From:	McKinney, Steve G
To:	Ritenour, Gerald P; Menjivar, Carolina S
Subject:	FW: Anticipated Delay in 14 Day Rpt for C8102
Date:	Monday, June 20, 2011 1:45:46 PM

From: Anastos, Heather L
Sent: Monday, June 20, 2011 1:18 PM
To: McKinney, Steve G
Cc: Johnson, Jo M
Subject: RE: Anticipated Delay in 14 Day Rpt for C8102

For C farm leak loss re-assessments we would like quick turn around on samples at and below 30 ft piperun.
We can live with 3-4 weeks TAT.

Please keep me posted regarding the lab AC issues.

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: McKinney, Steve G
Sent: Monday, June 20, 2011 12:44 PM
To: Anastos, Heather L
Cc: Johnson, Jo M
Subject: FW: Anticipated Delay in 14 Day Rpt for C8102

..provided the AC in the lab does not become an issue, they will still be able to support the short hold time analyses and shipping analyses… Let us know.

Thanks.

From: Ritenour, Gerald P
Sent: Monday, June 20, 2011 12:02 PM
To: McKinney, Steve G
Cc: Hansen, Daniel R; Menjivar, Carolina S
Subject: Anticipated Delay in 14 Day Rpt for C8102

Steve,

I was informed by ATL management that for the next week ATL expects to use most of our available resources to support mission critical work for PFP. This requires significant RadCon resources, which are now available. In addition we are expecting an issue with IC-Anions analysis

given the loss of the York chillers and rising lab temperatures. Ambient temperatures are expected to exceed 90F this week. Given the afore mentioned and with the loss of resources during the week of the 4th ATL is requesting an extension of the C Farm Core hole C8102 14-Day report to 7/13/2011.

NOTE: For the time being we expect to be able to support ammonia analysis, at least until the temperature inside reaches a level that laboratory personnel can no longer work safely or at some minimum level of comfort.

If you have any questions please let me know,

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
To: Ritenour, Gerald P; McKinney, Steve G
Cc: Menjivar, Carolina S
Subject: RE: C Farm Report
Date: Monday, September 19, 2011 1:58:57 PM

JR –

This works for us. We will issue a CCN to document the change.

Heather Anastos
Chemist, Closure & Corrective Measures
(509) 373-2616
2440 Stevens/Rm 1516

washingtonriver protectionsolutions
contractor to the United States Department of Energy

From: Ritenour, Gerald P
Sent: Thursday, September 15, 2011 8:31 AM
To: McKinney, Steve G; Anastos, Heather L
Cc: Menjivar, Carolina S
Subject: C Farm Report

Heather, Steve,
ATL would like to consolidate all the remaining C Farm core holes(C8102, 4, & 6) into one report. Also we would like to follow the S Farm QC requirement of having every batch contain the required QC samples (DUP, SPK, SPK-DUP, etc) but not require that they be performed on every core hole. This should help speed up the process by reducing the number of batches and the time need to produce and review the report

Gerald "JR" Ritenour
Project Manager
ATL Analytical Operations
Advanced Technologies and Laboratories International, Inc.
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gerald_p_ritenour@rl.gov

From:	McKinney, Steve G
To:	Ritenour, Gerald P
Subject:	FW: Core 8104 analysis clarification
Date:	Monday, December 05, 2011 4:24:21 PM

From: McKinney, Steve G
Sent: Monday, October 17, 2011 2:07 PM
To: Ritenour, Gerald P
Cc: Anastos, Heather L
Subject: Core 8104 analysis clarification

For the C8104 core composite samples received at 222-S on 10-13-11, please perform all remaining analysis specified in the C Farm FSAP, minus those short hold time analyses performed at WSCF – CN, pH, Tc-99 on a 1:1 water digest, conductivity, SVOA, IC anions and ammonia.

Thanks.

From: Anastos, Heather L
Sent: Tuesday, October 18, 2011 1:45 PM
To: McKinney, Steve G
Cc: Ritenour, Gerald P; Eberlein, Susan J
Subject: RE: Sr question

I agree. Accept the data and note in the narrative.

From: McKinney, Steve G
Sent: Tuesday, October 18, 2011 1:07 PM
To: Anastos, Heather L
Subject: FW: Sr question

I'm inclined to accept these. It is a lot of samples to rerun and it is soil. Not sure we would do that much better. It does

Core Number	Customer Sample ID	Sample Depth	SAMPLE_R	A	ANALYTE	UNIT	CS	BLANK	RESULT	DUPLICATE	AVERAGE	RPD	Det Limit	COUNT ERR	RPD-Surf/Surf Dup
C8102	B2B1L8	Surface	S11V004735	E	Strontium-C	%	n/a	82.4	77.8	48.6	n/a	n/a	n/a	n/a	45.2
C8102	B2B1L9	Surface Dup	S11V004752	E	Strontium-C	%	n/a	82.4	49.1	n/a	n/a	n/a	n/a	n/a	
C8102	B2B1L8	Surface	S11V004735	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	1.74E-05	1.22E-05	1.48E-05	34.8	1.80E-07	5.527	31.9
C8102	B2B1L9	Surface Dup	S11V004752	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	2.40E-05	n/a	n/a	n/a	2.76E-07	5.84	
C8102	B2B1L8	Surface	S11V004724		Potassium-40	uCi/g	n/a	<1.82E-06	6.63E-06	9.65E-06	8.14E-06	37.0	2.24E-06	8.05	54.5
C8102	B2B1L9	Surface Dup	S11V004740		Potassium-40	uCi/g	n/a	<1.82E-06	1.16E-05	n/a	n/a	n/a	3.71E-06	8.64	
C8102	B2B1L8	Surface	S11V004724		Lead-214	uCi/g	n/a	<1.48E-07	5.95E-07	6.50E-07	6.22E-07	8.83	1.92E-07	10.97	17.5
C8102	B2B1L9	Surface Dup	S11V004740		Lead-214	uCi/g	n/a	<1.48E-07	7.09E-07	n/a	n/a	n/a	3.03E-07	14.35	
C8102	B2B1L8	Surface	S11V004724		Lead-212	uCi/g	n/a	<9.43E-08	5.25E-07	5.42E-07	5.33E-07	3.15	1.27E-07	8.23	20.4
C8102	B2B1L9	Surface Dup	S11V004740		Lead-212	uCi/g	n/a	<9.43E-08	6.44E-07	n/a	n/a	n/a	2.05E-07	9.82	
C8102	B2B1L8	Surface	S11V004724		Cesium-137	uCi/g	100	<5.07E-08	4.37E-06	3.99E-06	4.18E-06	9.13	9.02E-08	1.28	4.7
C8102	B2B1L9	Surface Dup	S11V004740		Cesium-137	uCi/g	100	<5.07E-08	4.17E-06	n/a	n/a	n/a	1.47E-07	2.02	
C8102	B2B1L8	Surface	S11V004724		Bismuth-214	uCi/g	n/a	<1.33E-07	6.26E-07	4.43E-07	5.34E-07	34.2	1.95E-07	11.69	8.3
C8102	B2B1L9	Surface Dup	S11V004740		Bismuth-214	uCi/g	n/a	<1.33E-07	6.80E-07	n/a	n/a	n/a	3.13E-07	16.98	
C8102	B2D1X2	5.7'-9.7'	S11V004792	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	<6.48E-07	n/a	n/a	n/a	6.48E-07	n/a	U
C8102	B2D1X2	5.7'-9.7'	S11V004792	E	Strontium-C	%	n/a	82.4	78.3	n/a	n/a	n/a	n/a	n/a	
C8102	B2D1X4	11.5'-15.5'	S11V004830	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	<1.81E-06	n/a	n/a	n/a	1.81E-06	n/a	U
C8102	B2D1X4	11.5'-15.5'	S11V004830	E	Strontium-C	%	n/a	82.4	76.8	n/a	n/a	n/a	n/a	n/a	
C8102	B2D1X5	16.1'-18.1'	S11V004848	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	<2.66E-07	n/a	n/a	n/a	2.66E-07	n/a	U
C8102	B2D1X5	16.1'-18.1'	S11V004848	E	Strontium-C	%	n/a	82.4	50.8	n/a	n/a	n/a	n/a	n/a	
C8102	B2D1X6	65'-67'	S11V004866	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	<1.83E-07	n/a	n/a	n/a	1.83E-07	n/a	U
C8102	B2D1X6	65'-67'	S11V004866	E	Strontium-C	%	n/a	82.4	74.6	n/a	n/a	n/a	n/a	n/a	
C8102	B2D1X7	96'-98'	S11V004915	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	<3.24E-07	n/a	n/a	n/a	3.24E-07	n/a	U
C8102	B2D1X7	96'-98'	S11V004915	E	Strontium-C	%	n/a	82.4	41.9	n/a	n/a	n/a	n/a	n/a	
C8102	B2D1X8	155'-157'	S11V004933	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	<1.70E-07	n/a	n/a	n/a	1.70E-07	n/a	U
C8102	B2D1X8	155'-157'	S11V004933	E	Strontium-C	%	n/a	82.4	80.9	n/a	n/a	n/a	n/a	n/a	
C8102	B2D1X9	188'-190'	S11V004951	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	<1.71E-07	n/a	n/a	n/a	1.71E-07	n/a	U
C8102	B2D1X9	188'-190'	S11V004951	E	Strontium-C	%	n/a	82.4	79.7	n/a	n/a	n/a	n/a	n/a	
C8102	B2D1Y0	221'-223'	S11V004969	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	<5.37E-07	n/a	n/a	n/a	5.37E-07	n/a	U
C8102	B2D1Y0	221'-223'	S11V004969	E	Strontium-C	%	n/a	82.4	71.2	n/a	n/a	n/a	n/a	n/a	

seem to straddle your action levels though…

Let us know.

Thanks.

From: Ritenour, Gerald P
Sent: Tuesday, October 18, 2011 9:24 AM
To: McKinney, Steve G
Cc: Catlow, Stanley A; Maddigan, Craig J
Subject:

Steve,
The RPD for Sr 89/90 was outside the 30% required in the FSAP at 34.8, but meets the 35% HASQARD requirement. The lab believes this is due to matrix inhomogeneity. The table below contains the result for Sr-89/90 and the GEA from the surface samples. Even with the 150-200g aliquot for GEA there is considerable variation. The Sr-89/90 digest used 10g. I have also calculated the RPD between the Surface and Surface Dup sample (last column). Please let us know if these results are acceptable.
Thanks, JR

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

From: Anastos, Heather L
To: McKinney, Steve G
Cc: Ritenour, Gerald P; Eberlein, Susan J; Connelly, Michael
Subject: Interim Reports
Date: Wednesday, November 09, 2011 6:55:36 AM

Steve –

Vadose agrees to waive the interim reports on the remaining projects currently in-house at 222-S. Please put those resources on completing the final reports.

If you have any questions, let me know.
Thank you,
Heather

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From: McKinney, Steve G
Sent: Friday, November 18, 2011 10:55 AM
To: Ritenour, Gerald P
Cc: Anastos, Heather L; Catlow, Stanley A
Subject: RE: C8102 Pu/Am Results

..looks like we do need to confirm these results. At the same time, Stan says there is a trip blank out there undergoing rerun – is it related to these samples and could we get the results of the rerun blank…?

Thanks!

From: Ritenour, Gerald P
Sent: Thursday, November 17, 2011 3:17 PM
To: Anastos, Heather L; McKinney, Steve G
Subject: RE: C8102 Pu/Am Results

Steve,
Here's the spectra of the Pu result with 40 counts

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: Wednesday, November 16, 2011 4:07 PM
To: Anastos, Heather L; McKinney, Steve G
Subject: C8102 Pu/Am Results

Heather, Steve,
There were low level positive results for some of the samples in core hole C8102 for Pu/Am. All results are below the quantitation limit with low gross counts and high counting errors. I would not typical reanalyze these sample. Is this acceptable?

Customer Sample ID	Sample Depth	SAMPLE_R	A	ANALYTE	Unit	LCS	BLANK	RESULT	DUP	Det Limit	% Counting Error	Goss Counts
B2B1L8	Surface	S11V004734	E	Americium-241	uCi/g	100	<2.51E-08	6.27E-08	<3.06E-08	2.89E-08	27.31	16
B2B1L8	Surface	S11V004734	E	Plutonium-239/240	uCi/g	108	<4.22E-08	9.47E-08	<9.16E-08	2.99E-08	46.0	18
B2D1X4	11.5'-15.5'	S11V004829	E	Americium-241	uCi/g	100	<2.51E-08	6.10E-08	n/a	3.79E-08	31.33	16
B2D1X9	188'-190'	S11V004950	E	Americium-241	uCi/g	100	<2.51E-08	6.06E-08	n/a	3.01E-08	28.18	15
B2D1X9	188'-190'	S11V004950	E	Plutonium-239/240	uCi/g	108	<4.22E-08	2.06E-07	n/a	4.54E-08	30.5	40

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

Ritenour, Gerald P

From: Anastos, Heather L
Sent: Wednesday, December 07, 2011 10:54 AM
To: Ritenour, Gerald P
Cc: McKinney, Steve G
Subject: RE: C8106 IC batch 31881

We will accept the data. Please note the QC failures in the narrative.

From: Ritenour, Gerald P
Sent: Tuesday, December 06, 2011 5:03 PM
To: Anastos, Heather L
Cc: McKinney, Steve G
Subject: C8106 IC batch 31881

Heather,
We have a high RPD for fluoride and a low spike recovery for phosphate in batch 31881. This not uncommon with vadose sample. There were two matrix spikes in this batch and both were low for PO4. Since all spikes pass except PO4 and the two other anions that were above the quantification limit (PO4, NO3) have passing RPDs the lab would like to report these results with narration. This appears to be matrix related.
Thanks, JR

Core Number	Customer Sample ID	Segment Number	SAMPLE_R	ANALYTE	Units	LCS% Recovery	BLANK	RESULT	DUP	RPD	MS% Recovery	MDL	Q-Flag
C8106	B2FPR7	Surface	S11V005861	Fluoride	ug/g	99.9	<1.61E-03	0.557	1.29	79.7	75.8	0.0157	M
C8106	B2FPR7	Surface	S11V005861	Glycolate	ug/g	109	<9.37E-03	<0.0914	<0.0920	n/a	99.1	0.0914	U
C8106	B2FPR7	Surface	S11V005861	Acetate	ug/g	107	<6.04E-03	<0.0589	<0.0593	n/a	99.0	0.0589	U
C8106	B2FPR7	Surface	S11V005861	Formate	ug/g	98.7	<4.67E-03	<0.0456	0.160	n/a	92.6	0.0456	U
C8106	B2FPR7	Surface	S11V005861	Chloride	ug/g	96.6	<9.98E-03	0.228	0.328	35.9	93.2	0.0974	B
C8106	B2FPR7	Surface	S11V005861	Nitrite	ug/g	102	0.0348	2.05	3.42	50.2	98.1	0.187	B
C8106	B2FPR7	Surface	S11V005861	Sulfate	ug/g	100	<0.0187	1.86	3.10	50.1	91.8	0.182	B
C8106	B2FPR7	Surface	S11V005861	Oxalate	ug/g	101	<0.0231	<0.225	0.282	n/a	78.9	0.225	U
C8106	B2FPR7	Surface	S11V005861	Bromide	ug/g	83.4	<0.0580	<0.566	n/a	n/a	79.7	0.566	U
C8106	B2FPR7	Surface	S11V005861	Nitrate	ug/g	103	<0.0208	4.18	5.17	21.1	99.4	0.203	
C8106	B2FPR7	Surface	S11V005861	Phosphate	ug/g	93.8	<0.0167	4.57	5.58	19.8	47.4/60.0	0.163	N

Gerald "JR" Ritenour
Project Manager
ATL Analytical Operations

Ritenour, Gerald P

From: Anastos, Heather L
Sent: Wednesday, December 07, 2011 10:55 AM
To: Ritenour, Gerald P; McKinney, Steve G
Subject: RE:

We will accept the data. Please note the QC failure in the narrative.

From: Ritenour, Gerald P
Sent: Wednesday, December 07, 2011 9:39 AM
To: Anastos, Heather L; McKinney, Steve G
Subject:

Heather, Steve
The LCS for K was slightly low at 77.3% (±20 required). The MS % was 150%, however the sample result is more than 4X the spike and the MSrecovery criterion do not apply. Since the sample results fall within the expect range for vadose samples, the laboratory would like to report these results with narration. Reanalysis would exceed the 6 month holding time.
Thanks, JR

Core Number	Customer Sample ID	Sample Depth	SAMPLE_R	A	ANALYTE	Units	LCS % Recovery	BLANK	RESULT	DUP	RPD	MS % Recovery	MDL	Q Flag
C8102	B2B1L8	Surface	S11V004730	A	Potassium	ug/g	77.3	<0.500	9.65E+02	1.08E+03	11.7	150	117	BN
C8102	B2B1L9	Surface Dup	S11V004747	A	Potassium	ug/g	77.3	<0.500	1.10E+03	n/a	n/a	n/a	114	BN
C8102	B2D1X2	5.7'-9.7'	S11V004787	A	Potassium	ug/g	77.3	<0.500	1.10E+03	n/a	n/a	n/a	111	BN
C8102	B2D1X4	11.5'-15.5'	S11V004825	A	Potassium	ug/g	77.3	<0.500	916	n/a	n/a	n/a	117	BN
C8102	B2D1X5	16.1'-18.1'	S11V004843	A	Potassium	ug/g	77.3	<0.500	934	n/a	n/a	n/a	110	BN
C8102	B2D1X6	65'-67'	S11V004861	A	Potassium	ug/g	77.3	<0.500	951	n/a	n/a	n/a	110	BN
C8102	B2D1X7	96'-98'	S11V004910	A	Potassium	ug/g	77.3	<0.500	1.22E+03	n/a	n/a	n/a	109	N
C8102	B2D1X8	155'-157'	S11V004928	A	Potassium	ug/g	77.3	<0.500	933	n/a	n/a	n/a	110	BN
C8102	B2D1X9	188'-190'	S11V004946	A	Potassium	ug/g	77.3	<0.500	935	n/a	n/a	n/a	108	BN
C8102	B2D1Y0	221'-223'	S11V004964	A	Potassium	ug/g	77.3	<0.500	871	n/a	n/a	n/a	108	BN

Gerald "JR" Ritenour
Project Manager
ATL Analytical Operations

From:	Ritenour, Gerald P
To:	McKinney, Steve G; Anastos, Heather L
Cc:	Wyse, Eric J; Rice, Andrew D
Subject:	C Farm C8106 Missed HT for CN
Date:	Wednesday, December 14, 2011 3:40:00 PM

Steve, Anastos,

Due to an oversight by analytical personnel, a CN analysis is being performed after the holding time has expired for core hole C8106, I005, B2FYM7. The holding time was exceeded by 25 days.

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From:	Ritenour, Gerald P
To:	McKinney, Steve G; Anastos, Heather L
Cc:	Hansen, Daniel R; Rice, Andrew D; Bushaw, Thomas H; Maddigan, Craig J
Subject:	C8102 Missed HT for Ni-3-63
Date:	Thursday, December 15, 2011 10:23:00 AM

Steve, Heather,

Five analysis for Ni-63 exceeded the 180Day HT in the SAP by between one and ten days. This was caused by the need for reanalysis to address low level (20-30pCi/g) false positives in the original analysis. The samples were originally analyzed in October.

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From: Ritenour, Gerald P
To: McKinney, Steve G; Anastos, Heather L
Subject: FW: Missed hold time C8106 SVOA
Date: Friday, December 30, 2011 8:20:00 AM

Steve, Heather,
I believe I missed sending out this notification. We missed the 14-Day HT on the SVOA for C8106 interval I001 due to outages

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From: Monteith, Kenneth R
Sent: Thursday, December 01, 2011 7:09 AM
To: Ritenour, Gerald P
Cc: Duchsherer, Mark J
Subject: RE: Missed hold time

The hold time for sample S11V006150, *parent # S11V5890* (hold time 11/9/11) was missed due to ventilation/electrical problems in the 222-S laboratory.

- Nov 4th (Friday) – Ventilation went down in the afternoon with another set of Cfarm soxhlet (solid) samples in progress. A chem tech received special permission to enter the hood to remove the samples from the heating mantles, cap the round bottom flasks, and place them into the refrigerator. During this process the chem tech felt several small shocks when they came into contact with the hood.

- Nov 5th and 6th (weekend) – No lab work allowed due to ventilation/electrical outage.

- Nov 7th (Monday) – No lab work allowed due to ventilation/electrical outage

- Nov 8th (Tuesday) - No lab work allowed due to ventilation/electrical outage

- Nov 9th (Wednesday) – The laboratory ventilation was restored, the hoods in room 4S were checked for an electrical short and returned to service. Team 2 worked overtime to recover the samples, which were in process and clean the glassware to prepare for the next batch.

- Nov 10th (Thursday) – The extraction process for sample S11V006150 was started.

Thanks

Ken Monteith
Advanced Technologies and Laboratories International, Inc.
Contractor to the Office of River Protection
U.S. Department of Energy

From: Ritenour, Gerald P
Sent: Wednesday, November 30, 2011 1:22 PM
To: Monteith, Kenneth R
Cc: Duchsherer, Mark J
Subject: RE: Missed hold time

How come? Were there facility/equipment issues?

Gerald "JR" Ritenour
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From: Monteith, Kenneth R
Sent: Wednesday, November 30, 2011 1:12 PM
To: Ritenour, Gerald P
Subject: Missed hold time

JR,

Per our conversation, we missed the hold time for sample S11V006150 (Parent # S11V5890)

Thanks

Ken Monteith
Advanced Technologies and Laboratories International, Inc.
Contractor to the Office of River Protection
U.S. Department of Energy

From: McKinney, Steve G
To: Ritenour, Gerald P; Anastos, Heather L
Subject: RE: Expiring Holding time for ICP/MS C8104
Date: Friday, December 30, 2011 11:47:18 AM

There is no funding to ship samples outside for analysis. We need to analyze in house as soon as instruments are available.

Thanks for the heads up.

From: Ritenour, Gerald P
Sent: Thursday, December 29, 2011 9:48 AM
To: McKinney, Steve G; Anastos, Heather L
Cc: Rice, Andrew D; Hansen, Daniel R; Duchsherer, Mark J
Subject: Expiring Holding time for ICP/MS C8104

Steve,
The holding times for ICP/MS Actinides, Sb, and Sn-126 expired on 12-26-11 for Core C8104, intervals I001 to I003. The holding times for the remaining intervals (Surf, Surf Dup, and I004 through I008) will expired 1/8/12 through 1/17/12. Due to an outage with the PQ Excell instrument ATL is unsure that it can make these holding times. The vendor has been called and is required to be at the lab in no less than 3 business days. However, it is my understanding that we have not yet scheduled any vendor support and next week's schedule is loaded. In light of these complications WRPS might want to consider outside support in order to meeting holding times.
Thanks, JR

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Ritenour, Gerald P

To: Anastos, Heather L; McKinney, Steve G
Cc: Catlow, Stanley A; Connelly, Michael
Subject: RE: C8102 Pu/Am Results

From: Anastos, Heather L
Sent: Monday, January 16, 2012 11:15 AM
To: Ritenour, Gerald P; McKinney, Steve G
Cc: Catlow, Stanley A; Connelly, Michael
Subject: RE: C8102 Pu/Am Results

I think so long as it is clearly described in the narrative, it should be fine.

From: Ritenour, Gerald P
Sent: Monday, January 16, 2012 8:44 AM
To: Anastos, Heather L; McKinney, Steve G
Cc: Catlow, Stanley A; Connelly, Michael
Subject: RE: C8102 Pu/Am Results

All,
The more I think about this, I believe it would be less confusing to report the second analysis even though it is slightly pass the HT, and discuss the original in the narrative. Let me know if this is acceptable.

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From: Anastos, Heather L
Sent: Tuesday, December 27, 2011 11:02 AM
To: Ritenour, Gerald P; McKinney, Steve G
Cc: Catlow, Stanley A; Connelly, Michael
Subject: RE: C8102 Pu/Am Results

JR –

I understand your issue. I still believe the results from the deep samples (188-190') are likely false positives (either statistical or due to contamination) – and believe the second results are more accurate for those samples. You'll also note that the samples where other isotopes are detected are in the shallow (surface and surface dup) samples – which isn't surprising. But the fact is that the data is inconclusive.

I have talked with Mike Connelly at Vadose, and we're okay with you reporting the first set of results for all the samples. However, we would like the second set of results documented in the narrative. For your information, we will be flagging the deep Pu/Am detects as suspect data in HEIS – documenting that the second analysis showed no detectable amounts.

Thanks –
Heather

From: Ritenour, Gerald P
Sent: Tuesday, December 20, 2011 3:57 PM
To: Ritenour, Gerald P; McKinney, Steve G
Cc: Anastos, Heather L; Catlow, Stanley A
Subject: RE: C8102 Pu/Am Results

Steve, Heather,
We re-ran the C8102 samples that had positive results for Pu/Am and they were ND. However based on some additional information, I am not convinced that we should report these results. Stanley included in the batch with the C8102 , sample from C8104 with similar positive results (see table below, original analysis in red). The C8104 sample kept their positive results. In looking at Cs-137 and Sr-90 it seem obvious that there is some small amount of radioactive material in these sample. I believe if we re-ran the samples again they may come up positive. Given this and that the rerun of sample S11V004734 was past the holding time, I would prefer to report the initial analysis. Please let me know if this is acceptable?

Core Number	Customer Sample ID	Sample Depth	SAMPLE_R	A	ANALYTE	RESULT UNIT	LCS	BLANK	RESULT	DUP	RPD	Det Limit	COUNT ERR	Q Flag
C8102	B2B1L8	Surface	S11V004734	E	Americium-241	uCi/g	98.5	<2.72E-08	<2.86E-08	<2.64E-08	n/a	2.86E-08	n/a	U
C8102	**B2B1L8**	**Surface**	**S11V004734**	**E**	**Americium-241**	**uCi/g**	**100**	**<2.51E-08**	**6.27E-08**	**<3.06E-08**	**n/a**	**2.89E-08**	**27.31**	
C8102	B2B1L8	Surface	S11V004724		Cesium-137	uCi/g	100	<5.07E-08	4.37E-06	3.99E-06	9.13	9.02E-08	1.28	
C8102	B2B1L8	Surface	S11V004734	E	Plutonium-238	uCi/g	n/a	<4.38E-08	<2.61E-08	<2.58E-08	n/a	2.61E-08	n/a	U
C8102	B2B1L8	Surface	S11V004734	E	Plutonium-239/240	uCi/g	99.3	<4.38E-08	<2.79E-08	<2.18E-08	n/a	2.79E-08	n/a	U
C8102	**B2B1L8**	**Surface**	**S11V004734**	**E**	**Plutonium-239/240**	**uCi/g**	**108**	**<4.22E-08**	**9.47E-08**	**<9.16E-08**	**n/a**	**2.99E-08**	**46**	**J**
C8102	B2B1L8	Surface	S11V004735	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	1.74E-05	1.22E-05	34.8	1.80E-07	5.527	
C8102	B2B1L9	Surface Dup	S11V004740		Cesium-137	uCi/g	100	<5.07E-08	4.17E-06	n/a	n/a	1.47E-07	2.02	
C8102	B2B1L9	Surface Dup	S11V004752	E	Strontium-89/90	uCi/g	94.4	<5.62E-07	2.40E-05	n/a	n/a	2.76E-07	5.84	
C8102	B2D1X4	11.5'-15.5'	S11V004829	E	Americium-241	uCi/g	100	<2.51E-08	6.100E-08	n/a	n/a	3.79E-08	31.33	J
C8102	B2D1X9	188'-190'	S11V004950	E	Americium-241	uCi/g	98.5	<2.72E-08	<2.68E-08	n/a	n/a	2.68E-08	n/a	U
C8102	**B2D1X9**	**188'-190'**	**S11V004950**	**E**	**Americium-241**	**uCi/g**	**100**	**<2.51E-08**	**6.06E-08**	**n/a**	**n/a**	**3.01E-08**	**28.18**	

C8102	B2D1X9	188'-190'	S11V004950	E	Plutonium-238	uCi/g	n/a	<4.38E-08	<3.85E-08	n/a	n/a	3.85E-08	n/a	U
C8102	B2D1X9	188'-190'	S11V004950	E	Plutonium-239/240	uCi/g	99.3	<4.38E-08	<3.68E-08	n/a	n/a	3.68E-08	n/a	U
C8102	**B2D1X9**	**188'-190'**	**S11V004950**	**E**	**Plutonium-239/240**	**uCi/g**	**108**	**<4.22E-08**	**2.060E-07**	**n/a**	**n/a**	**4.54E-08**	**30.5**	
C8104	B2FB30	16.1'-18.1'	S11V005124	E	Americium-241	uCi/g	95.6	<3.21E-08	3.81E-08	n/a	n/a	2.99E-08	37.23	
C8104	B2FPF1	Surface	S11V005450		Americium-241	uCi/g	n/a	<9.12E-07	1.76E-07	n/a	n/a	1.37E-07	23.72	
C8104	B2FPF1	Surface	S11V005460	E	Americium-241	uCi/g	98.5	<2.72E-08	5.21E-08	n/a	n/a	2.77E-08	29.32	
C8104	B2FPF1	Surface	S11V005460	E	Americium-241	uCi/g	95.6	<3.21E-08	6.21E-08	n/a	n/a	3.14E-08	28	
C8104	B2FPF1	Surface	S11V005450		Cesium-137	uCi/g	93.8	<1.88E-07	2.77E-05	n/a	n/a	8.35E-08	0.29	
C8104	B2FPF1	Surface	S11V005460	E	Plutonium-239/240	uCi/g	99.3	<4.38E-08	3.13E-07	n/a	n/a	3.61E-08	12.29	
C8104	B2FPF1	Surface	S11V005460	E	Plutonium-239/240	uCi/g	106	<4.83e-08	2.11E-07	n/a	n/a	2.94E-08	12.2	
C8104	B2FPF1	Surface	S11V005461	E	Strontium-89/90	uCi/g	102	2.94E-07	8.12E-06	n/a	n/a	1.40E-07	7.308	
C8104	B2FPF2	Surface Dup	S11V005476	E	Americium-241	uCi/g	98.5	<2.72E-08	5.33E-08	n/a	n/a	3.22E-08	31.18	
C8104	B2FPF2	Surface Dup	S11V005476	E	Americium-241	uCi/g	95.6	<3.21E-08	6.78E-08	n/a	n/a	3.46E-08	27.7	
C8104	B2FPF2	Surface Dup	S11V005466		Cesium-137	uCi/g	93.8	<1.88E-07	2.27E-05	n/a	n/a	1.21E-07	0.44	
C8104	B2FPF2	Surface Dup	S11V005476	E	Plutonium-239/240	uCi/g	99.3	<4.38E-08	1.98E-07	n/a	n/a	4.97E-08	17.72	
C8104	B2FPF2	Surface Dup	S11V005476	E	Plutonium-239/240	uCi/g	106	<4.83e-08	2.85E-07	n/a	n/a	2.80E-08	10.4	
C8104	B2FPF2	Surface Dup	S11V005477	E	Strontium-89/90	uCi/g	102	2.94E-07	1.18E-05	n/a	n/a	1.42E-07	5.979	

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From: Ritenour, Gerald P
Sent: Friday, November 18, 2011 11:03 AM
To: McKinney, Steve G
Cc: Anastos, Heather L; Catlow, Stanley A
Subject: RE: C8102 Pu/Am Results

Yes and yes

Gerald "JR" Ritenour
Project Manager
ATL Analytical Operations

Ritenour, Gerald P

From: Anastos, Heather L
Sent: Wednesday, May 30, 2012 11:19 AM
To: Ritenour, Gerald P; McKinney, Steve G
Subject: RE: C8104 ICP/MS As

I agree, we can accept with notation in the narrative.

From: Ritenour, Gerald P
Sent: Wednesday, May 30, 2012 11:00 AM
To: McKinney, Steve G
Cc: Anastos, Heather L
Subject: RE: C8104 ICP/MS As

Steve,
I went back and looked and the closing CCV was low at 87%. The previous CCV was 92% and the ICV was 98%. The Post Spike was 103% and was the last sample analyzed before the low CCV. Since the LCS and MS were run between the mid-run CCV and Final CCV, a drop in instrument sensitive may have affected the recoveries to some degree, buy post spike recovery does not support that.

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From: McKinney, Steve G
Sent: Wednesday, May 30, 2012 10:13 AM
To: Ritenour, Gerald P
Cc: Anastos, Heather L
Subject: RE: C8104 ICP/MS As

..based on all the other QC (instrument being normal) ya got my vote.

From: Ritenour, Gerald P
Sent: Wednesday, May 30, 2012 10:01 AM
To: Anastos, Heather L; McKinney, Steve G
Subject: C8104 ICP/MS As

Steve, Heather,

The table below displays the results for ICP/MS batch 34232. As you can see both the LCS and MS are low. Normally we would reanalyze, but the original recovery calculations were in error and these failures were not discovered until after the HT had lapsed. We would like to report these results with a narration of "result may be biased low". However, the average As result for C Farm (124 results) is 3.4 (σ^2=1.2). For C8104 it was 3.5 (σ^2=1.0). Please let me know it this is acceptable.
Thanks, JR

Core Number	Customer Sample ID	Sample Depth	Lab ID	A	ANALYTE	Unit	LCS	BLANK	RESULT	DUP	RPD	MS %Recv	Det Limit	Qual Flag
C8104	B2FB27	5.7'-7.7'	S11V005062	A	Arsenic	ug/g	75.4	<0.0210	2.43	n/a	n/a	n/a	0.190	N
C8104	B2FB29	11.5'-15.5'	S11V005102	A	Arsenic	ug/g	75.4	<0.0210	2.78	n/a	n/a	n/a	0.186	N
C8104	B2FB30	16.1'-18.1'	S11V005120	A	Arsenic	ug/g	75.4	<0.0210	2.59	n/a	n/a	n/a	0.189	N
C8104	B2FB31	41'- 43'	S11V005138	A	Arsenic	ug/g	75.4	<0.0210	2.82	n/a	n/a	n/a	0.189	N
C8104	B2FB32	93'- 95'	S11V005156	A	Arsenic	ug/g	75.4	<0.0210	3.87	n/a	n/a	n/a	0.187	N
C8104	B2FB33	117'-119'	S11V005174	A	Arsenic	ug/g	75.4	<0.0210	3.71	n/a	n/a	n/a	0.190	N
C8104	B2FB34	157'- 159'	S11V005192	A	Arsenic	ug/g	75.4	<0.0210	3.06	n/a	n/a	n/a	0.190	N
C8104	B2FPF1	Surface	S11V005456	A	Arsenic	ug/g	75.4	<0.0210	5.22	4.12	23.7	73.5	0.182	N
C8104	B2FPF2	Surface Dup	S11V005472	A	Arsenic	ug/g	75.4	<0.0210	5.09	n/a	n/a	n/a	0.185	N

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Ritenour, Gerald P

From: Anastos, Heather L
Sent: Tuesday, March 13, 2012 3:38 PM
To: Ritenour, Gerald P; McKinney, Steve G
Subject: RE: Batch 31803 for Core Hole C8104

It is acceptable to report these with the notations in the narrative.

--Heather

From: Ritenour, Gerald P
Sent: Tuesday, March 13, 2012 3:26 PM
To: McKinney, Steve G; Anastos, Heather L
Subject: Batch 31803 for Core Hole C8104

Heather, Steve,
The LCS recovery for potassium exceeded the ±20% requirement in the SAP at 79%. The MS for barium and strontium were recovered at 127% and 133%, which exceeds the ±25% requirement. However, the sample results for potassium, barium ,and strontium were within the expected range for C Farm soil samples. The laboratory would like to report these result with appropriate flagging and discussion in the narrative. Please let us know if this acceptable.
Thanks, JR

Core Number	Customer Sample ID	Sample Depth	Lab ID	Analyte	Unit	LCS%	Blank	Result	DUP	RPD	MS%	MDL	QUAL Flag
C8104	B2FB27	5.7'-7.7'	S11V005062	Barium	ug/g	89.8	<3.00E-03	70.2	n/a	n/a	n/a	0.680	N
C8104	B2FB29	11.5'-15.5'	S11V005102	Barium	ug/g	89.8	<3.00E-03	72.9	n/a	n/a	n/a	0.665	N
C8104	B2FB30	16.1'-18.1'	S11V005120	Barium	ug/g	89.8	<3.00E-03	75.8	n/a	n/a	n/a	0.676	N
C8104	B2FB31	41'- 43'	S11V005138	Barium	ug/g	89.8	<3.00E-03	92.4	n/a	n/a	n/a	0.674	N
C8104	B2FB32	93'- 95'	S11V005156	Barium	ug/g	89.8	<3.00E-03	61	n/a	n/a	n/a	0.667	N
C8104	B2FB33	117'-119'	S11V005174	Barium	ug/g	89.8	<3.00E-03	57.8	n/a	n/a	n/a	0.680	N
C8104	B2FB34	157'- 159'	S11V005192	Barium	ug/g	89.8	<3.00E-03	72.9	n/a	n/a	n/a	0.679	N
C8104	B2FPF1	Surface	S11V005456	Barium	ug/g	89.8	<3.00E-03	81.1	73.4	9.89	127	0.650	N
C8104	B2FPF2	Surface Dup	S11V005472	Barium	ug/g	89.8	<3.00E-03	79.2	n/a	n/a	n/a	0.662	N
C8104	B2FB27	5.7'-7.7'	S11V005062	Potassium	ug/g	79.1	<0.500	868	n/a	n/a	n/a	113	B
C8104	B2FB29	11.5'-15.5'	S11V005102	Potassium	ug/g	79.1	<0.500	864	n/a	n/a	n/a	111	B
C8104	B2FB30	16.1'-18.1'	S11V005120	Potassium	ug/g	79.1	<0.500	954	n/a	n/a	n/a	113	B
C8104	B2FB31	41'- 43'	S11V005138	Potassium	ug/g	79.1	<0.500	1.13E+03	n/a	n/a	n/a	112	
C8104	B2FB32	93'- 95'	S11V005156	Potassium	ug/g	79.1	<0.500	841	n/a	n/a	n/a	111	B
C8104	B2FB33	117'-119'	S11V005174	Potassium	ug/g	79.1	<0.500	974	n/a	n/a	n/a	113	B

C8104	B2FB34	157'- 159'	S11V005192	Potassium	ug/g	**79.1**	<0.500	1.14E+03	n/a	n/a	n/a	113	
C8104	B2FPF1	Surface	S11V005456	Potassium	ug/g	**79.1**	<0.500	929	908	2.27	483	108	B
C8104	B2FPF2	Surface Dup	S11V005472	Potassium	ug/g	**79.1**	<0.500	973	n/a	n/a	n/a	110	B
C8104	B2FB27	5.7'-7.7'	S11V005062	Strontium	ug/g	89.9	<3.00E-03	32.2	n/a	n/a	n/a	0.680	N
C8104	B2FB29	11.5'-15.5'	S11V005102	Strontium	ug/g	89.9	<3.00E-03	30.1	n/a	n/a	n/a	0.665	N
C8104	B2FB30	16.1'-18.1'	S11V005120	Strontium	ug/g	89.9	<3.00E-03	35	n/a	n/a	n/a	0.676	N
C8104	B2FB31	41'- 43'	S11V005138	Strontium	ug/g	89.9	<3.00E-03	67.7	n/a	n/a	n/a	0.674	N
C8104	B2FB32	93'- 95'	S11V005156	Strontium	ug/g	89.9	<3.00E-03	29.4	n/a	n/a	n/a	0.667	N
C8104	B2FB33	117'-119'	S11V005174	Strontium	ug/g	89.9	<3.00E-03	30.2	n/a	n/a	n/a	0.680	N
C8104	B2FB34	157'- 159'	S11V005192	Strontium	ug/g	89.9	<3.00E-03	35	n/a	n/a	n/a	0.679	N
C8104	B2FPF1	Surface	S11V005456	Strontium	ug/g	89.9	<3.00E-03	37.2	30.6	19.5	**133**	0.650	N
C8104	B2FPF2	Surface Dup	S11V005472	Strontium	ug/g	89.9	<3.00E-03	35.2	n/a	n/a	n/a	0.662	N

Gerald "JR" Ritenour
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Ritenour, Gerald P

From: Anastos, Heather L
Sent: Wednesday, June 06, 2012 9:35 AM
To: Ritenour, Gerald P; McKinney, Steve G
Subject: RE: High Tl blank batch 34910

Report with a "C" flag and notation in the narrative that reanalysis would have been outside of holding time.

From: Ritenour, Gerald P
Sent: Tuesday, June 05, 2012 5:33 PM
To: Anastos, Heather L; McKinney, Steve G
Subject: High Tl blank batch 34910

Heather, Steve,
We have a high blank for Tl in for the C8106 samples (see table below). The blank and seven of the 9 samples are above EQL and the blank is more than 5 time the sample results, which meets the HEIS requirement to apply the "C" flag. In fact it is more that 100% of lowest 5 sample results. Average sample result for Tl in the 21 other C8106 samples is around 0.12 ug/g. We would normally re-prepared and reanalyzed, however since the last holding time expired in early April, I was not sure if we should reanalyze or report with a note in the narrative. The LRDL in the SAP for Thallium is 0.1ug/g.

Core Number	Customer Sample ID	Sample Depth	Lab ID	ANALYTE	Unit	LCS	BLANK	RESULT	Dup	RPD	MS	Det Limit	Qual Flag
C8106	B2FPR7	Surface	S11V005862	Thallium	ug/g	101	**0.0281**	0.304	0.319	4.75	103	0.0185	C
C8106	B2FPR8	Surface Dup	S11V005876	Thallium	ug/g	101	**0.0281**	0.286	n/a	n/a	n/a	0.0186	C
C8106	B2FYM3	11'- 13'	S11V005895	Thallium	ug/g	101	**0.0281**	0.287	n/a	n/a	n/a	0.0183	C
C8106	B2FYM4	19'- 21'	S11V005914	Thallium	ug/g	101	**0.0281**	0.272	n/a	n/a	n/a	0.0180	C
C8106	B2FYM5	27'- 29'	S11V005933	Thallium	ug/g	101	**0.0281**	0.248	n/a	n/a	n/a	0.0178	C
C8106	B2FYM6	64'- 66'	S11V005952	Thallium	ug/g	101	**0.0281**	0.186	n/a	n/a	n/a	0.0177	C
C8106	B2FYM7	90'- 92'	S11V005971	Thallium	ug/g	101	**0.0281**	0.204	n/a	n/a	n/a	0.0184	C
C8106	B2FYM8	132'- 134'	S11V005990	Thallium	ug/g	101	**0.0281**	0.183	n/a	n/a	n/a	0.0185	CB
C8106	B2FYM9	161.5'- 163.5'	S11V006009	Thallium	ug/g	101	**0.0281**	0.162	n/a	n/a	n/a	0.0184	CB

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Attachment 9

RECEIPT PAPERWORK

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	(X) LO-090-101 Rev EE.0 ( ) LO-090-102 Rev

Date Samples Received: 6.15.11 Group #: 20110761

Number of Samples: 1 set C-Free (Vadose equipment blank)

Sample Custodian: RHtab

Sample Custodian to Complete:

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

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

PM to Complete:

Samples acceptable for release? Yes PM Initials RK Date 6.15.11

If No, comment on communication and resolution: per JR. Richman

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V11-003-003	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE C03	DATA TURNAROUND
Bob Campbell / Rick Sharp	SYDNOR, HA	373-5589	SYDNOR, HA	AIR QUALITY ☐	60 Days / 120 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C 8102 Equipment Blank 1	WMA C Sampling for CMS - QC		V11-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
003	TFVZ 10- 000004	N/A	N/A	GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C	Cool~6C	HNO3 to pH <2	H2SO4 to pH <2/Cool~6C	NaOH to pH >=12/Cool~6C	HNO3 to pH <2	None
HOLDING TIME	24 Hours	7/40 Days	28 Days	7 Days	14 Days	6 Months	6 Months
TYPE OF CONTAINER	G/P	aG	G/P	G/P	G/P	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1	1	2	1
VOLUME	500mL	1000mL	500mL	250mL	250mL	1000mL	1000mL
SAMPLE ANALYSIS	pH (Water) - 9040 (TF); IC Anions - 9056; ✓	SEE ITEM (1) IN SPECIAL INSTRUCTIONS ✓	SEE ITEM (2) IN SPECIAL INSTRUCTIONS ✓	300.7_AMMONIUM (TF); ✓	Total Cyanide - 9014 (TF); ✓	SEE ITEM (3) IN SPECIAL INSTRUCTIONS ✓	C-14; H3 - TRITIUM; I129_SEP_GEA (TF); ✓

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME							
B2B1N7	WATER	6-15-11	10.00	✓	✓	✓	✓	✓	✓	✓

S11V004719, 4715, 4716, 4721, 4720, 4718, 4717

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
Bob Campbell 6-15-11 1100	RT Steele RT Steele ATL 6.15.11 1100	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
S4 sampler will be used at Depths 188'- 190'.
Bob Campbell 6-15-11
Temp blank 10°C received
GRP # 20110761

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-003-003	PAGE 2 OF 2
COLLECTOR Bob Campbell/Rick Sharp	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03 **AIR QUALITY** ☐	**DATA TURNAROUND** 60 Days / 120 Days
SAMPLING LOCATION C 8102 Equipment Blank 1	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC		**SAF NO.** V11-003		
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ 10-000004	**ACTUAL SAMPLE DEPTH** N/A	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

(1) Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate}; PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};
(2) Mercury - 7470 - (CV) (TF); 6010_Metals_ICP {Aluminum, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Cerium, Chromium, Copper, Europium, Iron, Lanthanum, Lead, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Selenium, Silicon, Silver, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thallium, Thorium, Tin, Titanium, Tungsten, Yttrium, Zinc, Zirconium}; 6010_Metals_ICP; RADISO_ICPMS (TF);
(3) GAMMA ENERGY ANALYSIS (TF); Americium-241 (TF); CURIUM {Curium-242, Curium-243/244}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Total Sr; Isotopic Plutonium {Plutonium-238, Plutonium-239/240};

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-003-004	PAGE 1 OF 1
COLLECTOR Bob Campbell / Rick Sharp	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C 8102 Equipment Blank 1	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC		**SAF NO.** V11-003	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ 10-000004	**ACTUAL SAMPLE DEPTH** N/A	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO TestAmerica St. Louis	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	14/40 Days
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	2
VOLUME	1L
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2B1N7	WATER	~~1000~~ 12 6-15-11 6-15-11	10.00	✓

Equipment Blank

CHAIN OF POSSESSION	SIGN/ PRINT NAMES		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Bob Campbell	6-15-11 1100	RLSteele RLSteele ATL	6.15.11 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1) Pesticides - 8081 (TF) {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Hexachlorobenzene};
Sampler will be used at Depths 188' – 190'.
Bob Campbell 6-15-11
Temp blank 1°C reader
GRPH ~~20110761~~ mmo 6-15-11
20110702, S11V004722

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	☒ LO-090-101 Rev E.Eo ○ LO-090-102 Rev

Date Samples Received: 5.25.11 Group #: 200 alltech STL

Number of Samples: 2 sets CFGRM - E8102 (Surface + Dup) 20110763

Sample Custodian: alltech

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	0°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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials DPL Date 5-26-2011

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 1)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-036	PAGE 1 OF 2
COLLECTOR Campbell / Rivera	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 Surface	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** Surface	**COA** n/a	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** n/a		**BILL OF LADING/AIR BILL NO.** n/a		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	~~G~~ P 5-25-11 G
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2B1L8	SOIL	5-25-11	0840	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell C-pbell	5-25-11 1020	RtStech RTStech/G ATL	5.25.11 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
Account Stock 5-25-11
Temp blank 0°C Added
GRP # 20110763
SAM # 5118004723

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

PRINTED ON 4/13/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-036	PAGE 2 OF 2
COLLECTOR Campbell / Rivera	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 Surface	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** Surface	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
(1) pH (Soil) - 9045; ICPMS Tc-99_WE(TF); Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pyrene, Pyridine, Total cresols, Tributyl phosphate};
6010_Metals_ICP {Aluminum, Barium, Beryllium, Bismuth, Boron, Calcium, Cerium, Chromium, Cobalt, Copper, Europium, Iron, Lanthanum, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Nickel, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Silicon, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thorium, Tin, Titanium, Tungsten, Vanadium, Yttrium, Zinc, Zirconium}; 6020_METALS_ICPMS (TF) {Antimony, Arsenic, Cadmium, Lead, Selenium, Silver, Thallium}; Mercury - 7471 - (CV) (TF); IC Anions - 9056; 300.7_AMMONIUM (TF); Total Cyanide - 9014 (TF); GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Thorium-228, Thorium-234}; Americium-241 (TF); I129_SEP_GEA (TF); C-14; CURIUM {Curium-242, Curium-243/244}; H3 - TRITIUM; Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Total Sr; Actinides ICPMS (TF) {Neptunium-237, Thorium-230, Thorium-232, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238}; RADISO_ICPMS (TF) {Technetium-99, Tin-126}; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF); PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};

PRINTED ON 4/13/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-037	PAGE 1 OF 2
COLLECTOR Campbell / Rivera	COMPANY CONTACT ANASTOS, HL	TELEPHONE NO. 373-2616	PROJECT COORDINATOR SYDNOR, HA	PRICE CODE C03 AIR QUALITY ☐	DATA TURNAROUND 60 Days / 120 Days
SAMPLING LOCATION C8102 Surface Dup	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V11-001		
ICE CHEST NO. 003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH Surface ~~Dup~~ BC 5-25-11	COA N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
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~6C
		HOLDING TIME	24 Hours
		TYPE OF CONTAINER	~~G~~ BC 5-25-11 G
		NO. OF CONTAINER(S)	2
		VOLUME	500mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2B1L9	SOIL	5-25-11	0840	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell C-pbell	5-25-11 1020	RtSteele RtSteele ATL	5.25.11 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

Scott Brod 5-25-11

Temp blank 0°c [illegible]

GRP # 20110763

SAM # ~~511FV~~ [illegible] 5.25.11 511V004739

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

PRINTED ON 4/13/2011 A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-037	PAGE 2 OF 2
COLLECTOR: Campbell / Rivera	COMPANY CONTACT: ANASTOS, HL	TELEPHONE NO.: 373-2616	PROJECT COORDINATOR: SYDNOR, HA	PRICE CODE: C03	DATA TURNAROUND
SAMPLING LOCATION: C8102 Surface Dup	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V11-001	AIR QUALITY: ☐	60 Days / 120 Days
ICE CHEST NO.: 003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: Surface	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

SPECIAL INSTRUCTIONS

Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
(1) pH (Soil) - 9045; ICPMS Tc-99_WE(TF); Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pyrene, Pyridine, Total cresols, Tributyl phosphate}; 6010_Metals_ICP {Aluminum, Barium, Beryllium, Bismuth, Boron, Calcium, Cerium, Chromium, Cobalt, Copper, Europium, Iron, Lanthanum, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Nickel, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Silicon, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thorium, Tin, Titanium, Tungsten, Vanadium, Yttrium, Zinc, Zirconium}; 6020_METALS_ICPMS (TF) {Antimony, Arsenic, Cadmium, Lead, Selenium, Silver, Thallium}; Mercury - 7471 - (CV) (TF); IC Anions - 9056; 300.7_AMMONIUM (TF); Total Cyanide - 9014 (TF); GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Thorium-228, Thorium-234}; Americium-241 (TF); I129_SEP_GEA (TF); C-14; CURIUM {Curium-242, Curium-243/244}; H3 - TRITIUM; Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Total Sr; Actinides ICPMS (TF) {Neptunium-237, Thorium-230, Thorium-232, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238}; RADISO_ICPMS (TF) {Technetium-99, Tin-126}; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF); PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};

PRINTED ON 4/13/2011

A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	(X) LO-090-101 Rev EG.0 ( ) LO-090-102 Rev

Date Samples Received: 5/31/11 Group #: 20110763

Number of Samples: 1 set C-FARM (C8102/I001) ABC/shoe

Sample Custodian: Rhodes

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	0°C RK			☐ 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. (Any "No" checked requires Project Manager resolution)

PM to Complete:

Samples acceptable for release? Yes PM Initials CSM Date 05/31/11

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 1)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-039	PAGE 1 OF 1
COLLECTOR Campbell / Sharp	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I001	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TF VZ-10-000004	**ACTUAL SAMPLE DEPTH** 5.7' - 7.7'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1P9	SOIL	5-31-11	1320	✓
B2D1R0	SOIL	5-31-11	1320	✓
B2D1R1	SOIL	5-31-11	1320	✓

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell	5.31.11 1400	RTSteele ATL	5.31.11 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};
Temp blank 0°C RTSteele 5-31-11
GRP# 20110763
SAM # S11V004755 A
4756 B
4757 C
4758 RTSteele 5.31.11

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-038	PAGE 1 OF 1
COLLECTOR Campbell / Sharp	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I001	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 5.7'-7.7'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	~~os~~ BC 5-31-11 G
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	✓
B2D1P8	SOIL	5-31-11	1320	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
Chad Campbell	5-31-11 1400	RTSteele ATL	5.31.11 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
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

Scott Sweet 5-31-11
Temp blank 0°C
GRP # 20110763
Sam # S11V004758 Shoe

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	⊗ LO-090-101 Rev E.E.O ○ LO-090-102 Rev

Date Samples Received: 6.1.11 Group #: 20110763

Number of Samples: 3 sets VA dose C FARM (C8102/I002,3,4)

Sample Custodian: Rt Lueb

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	-1°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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials CSM Date 06/01/11

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 1)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V11-001-041	PAGE 1 OF 1

COLLECTOR: Campbell/Sharp	COMPANY CONTACT: ANASTOS, HL	TELEPHONE NO.: 373-2616	PROJECT COORDINATOR: SYDNOR, HA	PRICE CODE: C03 — DATA TURNAROUND: 60 Days / 120 Days
SAMPLING LOCATION: C8102 I002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V11-001	AIR QUALITY: ☐
ICE CHEST NO.: 003	FIELD LOGBOOK NO.: HFVZ-10-000004	ACTUAL SAMPLE DEPTH: 7.7-9.7	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE — ORIGINAL
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A	

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1R3	SOIL	6-1-11	0905	✓
B2D1R4	SOIL	6-1-11	0905	✓
~~B2D1R5~~	~~SOIL~~ BC 6-1-11			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature] Campbell	6-1-11 1145	[signature] RTSteele ATL	6-1-11 1145
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

[signature] 6-1-11

Temp blank -1°C [signature]

GRP# 20110763
SAM# S11V004775 Liner A
4776 Liner B

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

PRINTED ON 4/12/2011 A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-040	PAGE 1 OF 1
COLLECTOR Campbell/Sharp	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I002	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 7.2-9.7	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	~~G~~ DS G 6-1-11
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1R2	SOIL	6-1-11	0905	✓

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	6-1-11 ~~6/1/11 1445~~ 6.1.11 1145	RTSteele RTSteele ATL	6-1-11 1145

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

Scott Sund 6-1-11

Temp blank -1°C Related

GRP # 20110763
SAM # S11V00 ~~4478~~ SHOC 4778
CM 06/01/11

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-043	PAGE 1 OF 1
COLLECTOR Campbell/Sharp	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I003	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 11.5-13.5	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1R7	SOIL	6-1-11	0951	—
~~B2D1R8~~	~~SOIL~~ DS 6-1-11	~~6-1-11~~		
~~B2D1R9~~	~~SOIL~~ DS 6-1-11	~~6-1-11~~		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
Campbell	6-1-11 1145	RTSteele ATL	6-1-11 1145
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

Scott Sheer 6-1-11
Temp blank -1°C received
GRP # 20110763
Sam # S11V004795 Liner A

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-042	PAGE 1 OF 1
COLLECTOR Campbell/Sharp	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I003	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 11.5-13.5	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	~~G~~ G P3 6-1-11
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1R6 -	SOIL	6-1-11	0957	—

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
Gabriel Campbell	6.1.11 1145	RHSteele RHSteele ATL	6.1.11 1145

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

Scott Sharp 6-1-11

Temp blank ~1°C exhibit

GRP# 20110763
Sam# S11V004798 shoe

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-045	PAGE 1 OF 1
COLLECTOR Campbell/Sharp	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I004	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 13.5 - 15.5	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner/G 500 ML
NO. OF CONTAINER(S)	1 2 BL 6-1-11
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1T1	SOIL	6-1-11	1055	✓
B2D1T2	SOIL	6-1-11	1055	✓
~~B2D1T3~~	~~SOIL~~ BL 6-1-11			

CHAIN OF POSSESSION	SIGN/ PRINT NAMES
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME
Cahall C-pbell 6.1.11 1145	RTSteele RTSteele ATL 6.1.11 1145
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

Accutt Sweet 6-1-11

temp blank -1°C etched

Grp # 20110763
Sam # S11V00 4815 Liner A
S11V00 4816 Liner B

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-044	PAGE 1 OF 1
COLLECTOR Campbell/Sharp	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I004	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 13.5-15.5	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	ORIGINAL
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~6C
		HOLDING TIME	24 Hours
		TYPE OF CONTAINER	~~G~~ PS 6-1-11
		NO. OF CONTAINER(S)	1
		VOLUME	500mL
	SPECIAL HANDLING AND/OR STORAGE	**SAMPLE ANALYSIS**	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1T0	SOIL	6-Hi	1055	✓

CHAIN OF POSSESSION	SIGN/ PRINT NAMES		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	6.1.11 1145	RTSteele RTSteele ATL	6/1/11 1145
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

Temp blank -1°C RTSteele

Brent Shoe 6-1-11
GRP # 20110763
SAM # S11V004818 Shoe

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

DD-O

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	☒ LO-090-101 Rev EG WD 6-3-11 ☐ LO-090-102 Rev

Date Samples Received: 6-3-11 Group #: 20110763

Number of Samples: 2

Sample Custodian: Leslie Dietz

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	X			
RSR provided?	X	WD 6-3-11		
Verify GKI is complete			X	☒ In Project File
Check that outer custody seal is intact, if present	X			
Record cooler temperature in centigrade, as appropriate	X			☐ Check if no cooler and/or no ice
Samples are intact and in good condition	X			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	X			
• Date and time of sampling	X			
• Sampling location or origin	X			
• Container type, size, and number	X			
• Analysis request is clear	X			
• Signature of persons relinquishing and receiving samples	X			
• Date and/or time of sample custody exchange	X			
Verify that sample numbers on containers match the COC and/or RSA	X			
Samples stored properly (e.g., refrigeration)	X			

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

PM to Complete:

Samples acceptable for release? yes PM Initials csm Date 06/03/11

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 1)

Washington River Protection Solutions | **CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST** | **V11-001-047** | **PAGE 1 OF 1**

COLLECTOR Campbell/Rivera	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA
SAMPLING LOCATION C8102 I005	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 16.1 – 18.1	**COA** N/A
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE C03 **DATA TURNAROUND** 60 Days / 120 Days

AIR QUALITY ☐

METHOD OF SHIPMENT GOVERNMENT VEHICLE **ORIGINAL**

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1T5	SOIL	6-3-11	0930	✓
~~B2D1T6~~	~~SOIL~~ 6-3-11			
~~B2D1T7~~	~~SOIL~~ 6-3-11			

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
C Campbell	6-3-11 1040	Leslie Drake	6-3-11 10:40

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};
6-3-11
-1.0 cooler
SIIV 004833 Liner A

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-046	PAGE 1 OF 1
COLLECTOR Campbell / Rivera	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I005	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 603	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 16.1 - 18.1	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1T4	SOIL	6-3-11	0930	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
Campbell C-pbell	6-3-11 1040	Leslie Diaz	6-3-11 10:40

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

6-3-11

S11V004836 Shoe

-1.0 cooler

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	(X) LO-090-101 Rev E-E,O ( ) LO-090-102 Rev

Date Samples Received: 6.8.11 Group #: 20110763

Number of Samples: 1 set C-FAN VADOSE F006

Sample Custodian: RT Reed

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	10c RT		✓	☐ 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials RT Date 6.8.11

If No, comment on communication and resolution: per J.R. Rikenour

Other Comments:

A-6005-342 (REV 1)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-049	PAGE 1 OF 1
COLLECTOR Campbell / ~~R~~ 6-8-11 RR R Sharp	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** ~~+8.1 - 20.~~ 6-8-11 RR 65' - 67'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*		SAMPLE DATE	SAMPLE TIME	
B2D1T9	SOIL	A	6/8/11	0920	✓
B2D1V0	SOIL	B	6/8/11	0920	✓
B2D1V1	SOIL	C	6/8/11	0920	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
Rick Sharp	6-8-11/1010	RLTedeschi RTSteele ATL	6-8-11 1010
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

6-8-11

Temp blank -1°C RLTedeschi

GRI# 20110763

SAM# S11V004851 Liner A
4852 Liner B
4853 Liner C

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

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A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		V11-001-048	PAGE 1 OF 1
COLLECTOR Campbell / ~~Rick~~ R SHARP 6-8-11RR	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03 **DATA TURNAROUND** **AIR QUALITY** ☐ **60 Days / 120 Days**
SAMPLING LOCATION C8102 I006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	
ICE CHEST NO. 063	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** ~~18.1-20.1~~ RR 6-8-11 65'-67'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE **ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A	

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1T8	SOIL	~~6-3-11~~ 6-8-11RR	0920	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RP Rick Sharp	6-8-11/1010	R Stucke RTSTGGIG ATL	6.9.11 0010

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

Barb Campbell 6-8-11

Temp blanks received ~1°C

GRP# 20110963

SAM# S11V004854 shoe

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	(X) LO-090-101 Rev E.G.0 ( ) LO-090-102 Rev

Date Samples Received: 6.13.11 Group #: 20110763

Number of Samples: 1 set CFAAm VAdose C8102 I007

Sample Custodian: RA Stuck

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	0°C NA			☐ 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials RK Date 6.13.11

If No, comment on communication and resolution: Per J.R. Ritenour

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-051	PAGE 1 OF 1
COLLECTOR Sharp/Villareal	COMPANY CONTACT ANASTOS, HL	TELEPHONE NO. 373-2616	PROJECT COORDINATOR SYDNOR, HA	PRICE CODE C03	DATA TURNAROUND
SAMPLING LOCATION C8102 I007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V11-001	AIR QUALITY ☐	60 Days / 120 Days
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFIZ 000004	ACTUAL SAMPLE DEPTH 96' - 98'	COA N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1V3	SOIL	6-13-11	0948	✓
B2D1V4	SOIL	6-13-11	0948	✓
B2D1V5	SOIL	6-13-11	0948	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Villareal	6-13-11 1040	RTSteele ATL	6-13-11 1040
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

L.U. 6-13-11
~0.°C
Temp blank

GRP# 20110763
SAM# S11V004900 A
4901 D
4902 C Liner

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-050	PAGE 1 OF 1
COLLECTOR Sharp/Villareal	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I007	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. TFVS-09003	**FIELD LOGBOOK NO.** TFV2 060004	**ACTUAL SAMPLE DEPTH** 96'-98'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1V2	SOIL	6-13-11	0948	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
J.Villareal	6-13-11 1040	R Steele RTSteele ATL	6-13-11 1040
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

I.V 6-13-11
~0°C
Temp blank
GRPH 20110763
SAMP S11V004903 shoe

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	☒ LO-090-101 Rev E-E.6 ○ LO-090-102 Rev

Date Samples Received: 6.14.11 Group #: 20110763

Number of Samples: 1 Set C-Farm vAdose C8102 I008.

Sample Custodian: Abbott

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	0°C On			☐ 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials RA Date 6.14.11

If No, comment on communication and resolution: for JR. Release

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-053	PAGE 1 OF 1
COLLECTOR SHARP / VILLAREAL	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I008	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. TFVS-09-063	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 155' - 157'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1V7	SOIL	6-14-11	10.00	✓
B2D1V8	SOIL	6-14-11	10.00	✓
B2D1V9	SOIL	6-14-11	10.00	✓

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
J.V. Villareal 6.14.11 1050	RTSteele ATL 6.14.11 1050	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

I.V. 6-14-11
Temp blank 0°c recieved
GRP# 20110763
Sam# S11V00 4918 Liner A
4919 Liner B
4920 Liner C

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-052	PAGE 1 OF 1
COLLECTOR SHARP / Villarreal	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I008	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. TFVS-09-003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 155' - 157'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1V6	SOIL	6-14-11	10.00	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
JL Villarreal	6.14.11 1050	RTSteele ATL	6.14.11 1050
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

C.V. 6-14-11

Temp blank 0°C ptc

GRP# 20110763

Sam # S11V004921 Shoe

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	○ LO-090-101 Rev E.E.O ○ LO-090-102 Rev

Date Samples Received: 6.16.11 Group #: 20110763

Number of Samples: 1 set C-FAcm VADOSE C8102 (I009)

Sample Custodian: RKCtech

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	3°C			☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓			If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:				
• Client name and client sample number	✓			
• Date and time of sampling	✓			
• Sampling location or origin	✓			
• Container type, size, and number	✓			
• Analysis request is clear	✓			
• Signature of persons relinquishing and receiving samples	✓			
• Date and/or time of sample custody exchange	✓			
Verify that sample numbers on containers match the COC and/or RSA	✓			
Samples stored properly (e.g., refrigeration)	✓			

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

PM to Complete:

Samples acceptable for release? yes PM Initials RTL Date 6.16.11

If No, comment on communication and resolution: per. CSM.

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-055	PAGE 1 OF 1
COLLECTOR Campbell / Rivera	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I009	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 188-190	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1W1 A	SOIL	6-16-11	1405	✓
B2D1W2 B	SOIL	6-16-11	1405	✓
B2D1W3 C	SOIL	6-16-11	1405	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
C Campbell	6-16-11 1445	RH Teagle RTeagle ATC	6.16.11 1445
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TE) {Bulk density - wet};

6-16-11
Temp BLANK
3°C Noted
GRP# 20110763
SAM# S11V004936 Liner A
4937 Liner B
4938 Liner C

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V11-001-054	PAGE 1 OF 1

COLLECTOR Campbell / Rivera	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03 **DATA TURNAROUND** 60 Days / 120 Days
SAMPLING LOCATION C8102 I009	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 188 ~ 190	**COA** n/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE **ORIGINAL**
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~6C
		HOLDING TIME	24 Hours
		TYPE OF CONTAINER	Gs
		NO. OF CONTAINER(S)	1
		VOLUME	500mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1W0	SOIL	6-16-11	1405	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell Campbell	6/16/11 ~~0245~~ 1445	[signature] [illegible] ATL	6.15.11 1445
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

[signature] 6-16-11

Temp blank 3°C [initials]

GRP# 20110763
Sam# S11V004939 shoe

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

PRINTED ON 4/12/2011 A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	(X) LO-090-101 Rev 6.C.0 ( ) LO-090-102 Rev

Date Samples Received: 6.20.11 Group #: 20110763

Number of Samples: 1 SLF C-FARM VA DOSE I0010

Sample Custodian: _____

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	10c			☐ 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials RK Date 6.20.11

If No, comment on communication and resolution: Per CSn

Other Comments:

A-6005-342 (REV 1)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-057	PAGE 1 OF 1
COLLECTOR Campbell/Ekstrom	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I010	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 221 - 223 ft	**COA** n/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** n/A		**BILL OF LADING/AIR BILL NO.** n/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*		SAMPLE DATE	SAMPLE TIME	
B2D1W5	SOIL	A	6-20-11	1055	✓
B2D1W6	SOIL	B	6-20-11	1055	✓
B2D1W7	SOIL	C	6-20-11	1055	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
Campbell	6-20-11 1130	RTSteele AR	6.20.11 1130
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

Campbell 6-20-11

Temp blank -1°C

GRP # 20110763

SAM # S11V0C 4954 Liner A
4955 Liner B
4956 Liner C

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-056	PAGE 1 OF 1
COLLECTOR Campbell / EKstrom	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8102 I010	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 221-223 ft.	**COA** n/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** n/A		**BILL OF LADING/AIR BILL NO.** n/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Gs
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2D1W4	SOIL	6-20-11	1055	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
C Campbell	6-20-11 1130	RL Cook RTSteele ATL	6.20.11 1130
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

C Campbell 6-20-11

Temp blank -10C

GRP# 20110763

deleted

Sample # S11V004957 Shoe

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

PRINTED ON 4/12/2011

A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LØ-090-101 Rev EE.0

Date Samples Received: 7.18.11 Group #: 20111028 Y 1029

Number of Samples: 1 Set C-FARM UADOSE EQ.B

Sample Custodian: RL Tech

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	0°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	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle	✓			
• 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials RKS Date 7-18.11

If No, comment on communication and resolution: POR CSM

Other Comments:

A-6005-342 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-003-005	PAGE 1 OF 2
COLLECTOR Elstrom/Campbell	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C 8104 Equipment Blank 1 Prior to I008	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC		**SAF NO.** V11-003	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. TFVS-09-003	**FIELD LOGBOOK NO.** TRV2-10-000004	**ACTUAL SAMPLE DEPTH** N/A	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C	Cool~6C	HNO3 to pH <2	H2SO4 to pH <2/Cool~6C	NaOH to pH >=12/Cool~6C	None	HNO3 to pH <2
HOLDING TIME	24 Hours	7/40 Days	28 Days	7 Days	14 Days	6 Months	6 Months
TYPE OF CONTAINER	G/P	aG	G/P	G/P	G/P	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1	1	1	2
VOLUME	500mL	1000mL	500mL	250mL	250mL	1000mL	1000mL
SAMPLE ANALYSIS	pH (Water) - 9040 (TF); IC Anions - 9056;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	300.7_AMMONIUM (TF);	Total Cyanide - 9014 (TF);	C-14; H3 - TRITIUM; I129_SEP_GEA (TF);	SEE ITEM (3) IN SPECIAL INSTRUCTIONS
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**					
B2B1N8	WATER	7/18/11	0900	✓	✓	✓	✓	✓	✓	✓

DI water Lot# H29E19 Bee 7/18/11

511V005013, 5009, 5010, 5015, 5014, 5011, 5012

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	7-18-11 1000	RTSteele	ATL 7.18.11 1000	Billy Gahell 7-18-11
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	O/C T.B. Retained
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	GRP # 20111028
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	Equipment Blank
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	

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

PRINTED ON 6/14/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-003-005	PAGE 2 OF 2
COLLECTOR Ekstrom/ Campbell	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C 8104 Equipment Blank 1 Prior to Ioos	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC		**SAF NO.** V11-003	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. TFVS-09-003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** N/A	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

(1) Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate}; PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};
(2) Mercury - 7470 - (CV) (TF); 6010_Metals_ICP {Aluminum, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Cerium, Chromium, Copper, Europium, Iron, Lanthanum, Lead, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Selenium, Silicon, Silver, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thallium, Thorium, Tin, Titanium, Tungsten, Yttrium, Zinc, Zirconium}; 6010_Metals_ICP; RADISO_ICPMS (TF);
(3) GAMMA ENERGY ANALYSIS (TF); Americium-241 (TF); CURIUM {Curium-242, Curium-243/244}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Total Sr; Isotopic Plutonium {Plutonium-238, Plutonium-239/240};

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-003-006	PAGE 1 OF 1
COLLECTOR Ekstrom / Campbell	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C 8104 Equipment Blank 1 Prior to I008	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC		**SAF NO.** V11-003	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. TFVS-09-003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** N/A	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO ~~TestAmerica St. Louis~~ 222-S RRE 7/18/11	**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~6C
		HOLDING TIME	14/40 Days
		TYPE OF CONTAINER	aG
		NO. OF CONTAINER(S)	2
		VOLUME	1L
	SPECIAL HANDLING AND/OR STORAGE	**SAMPLE ANALYSIS**	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

DI Lot # H29E19 RRE 7/18/11

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2B1N8	WATER	7/18/11	0900	✓

S11V005016

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM [signature] Campbell	7-18-11 1000	**RECEIVED BY/STORED IN** RtSteele RTSteele ATL	7-18-11 1000
RELINQUISHED BY/REMOVED FROM		**RECEIVED BY/STORED IN**	
RELINQUISHED BY/REMOVED FROM		**RECEIVED BY/STORED IN**	
RELINQUISHED BY/REMOVED FROM		**RECEIVED BY/STORED IN**	
RELINQUISHED BY/REMOVED FROM		**RECEIVED BY/STORED IN**	
RELINQUISHED BY/REMOVED FROM		**RECEIVED BY/STORED IN**	
RELINQUISHED BY/REMOVED FROM		**RECEIVED BY/STORED IN**	

SPECIAL INSTRUCTIONS

(1) Pesticides - 8081 (TF) {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Hexachlorobenzene}; [signature] 7-18-11

T.B. Temp °C 0 rtsteele

GRP # ~~20110228~~ 20111029 rtsteele 7-18-11

S11V00 5016 - offsite RPR 5-4-2012

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

PRINTED ON 6/14/2011

A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	☒ LO-090-101 Rev E.E.0 ○ LO-090-102 Rev

Date Samples Received: 6-29-11 Group #: 20111030

Number of Samples: 2 sets, VA dose C8104/surface & Dup

Sample Custodian: pl/tab

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	1°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)	✓			MO 409

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

PM to Complete:

Samples acceptable for release? yes PM Initials GPP Date 6-29-2011

If No, comment on communication and resolution:

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-069	PAGE 1 OF 2
COLLECTOR Campbell / Ekstrom	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8104 Surface	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 6" – 12"	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9X4	SOIL	~~6-28-11~~ 6-29-11 6-28-11	0950	✓

Surface

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
Campbell Campbell	6-29-11 0845	RTClark RTSteele ATC	6-29-11 0845
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/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
Bc Clinton 6/29/11
Temp blnk -1°C Retest
GRPH 20111030
S11V00501 7 Surface

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

PRINTED ON 6/14/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-069	PAGE 2 OF 2
COLLECTOR Campbell / Ekstrom	COMPANY CONTACT ANASTOS, HL	TELEPHONE NO. 373-2616	PROJECT COORDINATOR SYDNOR, HA	PRICE CODE C03	DATA TURNAROUND
SAMPLING LOCATION C8104 Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V11-001	AIR QUALITY ☐	60 Days / 120 Days
ICE CHEST NO. 003	FIELD LOGBOOK NO. TFV2-10-00004	ACTUAL SAMPLE DEPTH 6'-12'	COA N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

**Only samples from intervals within the top 15 ft. will be analyzed for pesticides,and PCBs.
(1) pH (Soil) - 9045; ICPMS Tc-99_WE(TF); Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pyrene, Pyridine, Total cresols, Tributyl phosphate}; 6010_Metals_ICP {Aluminum, Barium, Beryllium, Bismuth, Boron, Calcium, Cerium, Chromium, Cobalt, Copper, Europium, Iron, Lanthanum, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Nickel, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Silicon, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thorium, Tin, Titanium, Tungsten, Vanadium, Yttrium, Zinc, Zirconium}; 6020_METALS_ICPMS (TF) {Antimony, Arsenic, Cadmium, Lead, Selenium, Silver, Thallium}; Mercury - 7471 - (CV) (TF); IC Anions - 9056; 300.7_AMMONIUM (TF); Total Cyanide - 9014 (TF); GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Thorium-228, Thorium-234}; Americium-241 (TF); I129_SEP_GEA (TF); C-14; CURIUM {Curium-242, Curium-243/244}; H3 - TRITIUM; Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Total Sr; Actinides ICPMS (TF) {Neptunium-237, Thorium-230, Thorium-232, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238}; RADISO_ICPMS (TF) {Technetium-99, Tin-126}; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF); PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};

PRINTED ON 6/14/2011

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		V11-001-070	PAGE 1 OF 2
COLLECTOR Campbell / Ekstrom	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03 **DATA TURNAROUND**
SAMPLING LOCATION C8104 Surface Dup	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐ **60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-00004	**ACTUAL SAMPLE DEPTH** 6"-12"	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE **ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A	

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9X5	SOIL	~~6-28-11~~ 6-28-11	0950	✓

Surface Dup

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
Campbell / Ekstrom 6-29-11 0845	Rittele RISTEEN ATC 6.29.11 0845	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/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
BR Ekstrom 6/28/11
Temp blank -1°C
RTittel
GAP # 20111030
S11V005034 surface dup

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

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A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-070	PAGE 2 OF 2
COLLECTOR Campbell / Ekstrom	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8104 Surface Dup	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 6" - 12"	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

**Only samples from intervals within the top 15 ft. will be analyzed for pesticides,and PCBs.
(1) pH (Soil) - 9045; ICPMS Tc-99_WE(TF); Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pyrene, Pyridine, Total cresols, Tributyl phosphate}; 6010_Metals_ICP {Aluminum, Barium, Beryllium, Bismuth, Boron, Calcium, Cerium, Chromium, Cobalt, Copper, Europium, Iron, Lanthanum, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Nickel, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Silicon, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thorium, Tin, Titanium, Tungsten, Vanadium, Yttrium, Zinc, Zirconium}; 6020_METALS_ICPMS (TF) {Antimony, Arsenic, Cadmium, Lead, Selenium, Silver, Thallium}; Mercury - 7471 - (CV) (TF); IC Anions - 9056; 300.7_AMMONIUM (TF); Total Cyanide - 9014 (TF); GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Thorium-228, Thorium-234}; Americium-241 (TF); I129_SEP_GEA (TF); C-14; CURIUM {Curium-242, Curium-243/244}; H3 - TRITIUM; Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Total Sr; Actinides ICPMS (TF) {Neptunium-237, Thorium-230, Thorium-232, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238}; RADISO_ICPMS (TF) {Technetium-99, Tin-126}; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF); PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};

PRINTED ON 6/14/2011

A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev 6.6.0

Date Samples Received: 7.21.11 Group #: 20111030

Number of Samples: 2 soil C-FARM VADOSE RE / surface / surface DUP.

Sample Custodian: [signature]

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	0°			☐ 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	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle			✓	
• 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials RL Date 7.21.11

If No, comment on communication and resolution: per CSM

Other Comments:

A-6005-342 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-108	PAGE 1 OF 2
COLLECTOR Campbell / Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8104 Surface	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 6' – 12"	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPF1	SOIL	7-21-11	0845	✓

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
Cphill C-pbell	7-21-11 1015	RETSteele RTS	7.21.11 1015	7-21-11
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	0°C TB. Metal
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	GPH 20111030
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	511 VCC54148 Surface
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
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**

PRINTED ON 7/18/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-108	PAGE 2 OF 2
COLLECTOR Campbell / Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8104 Surface	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 6" — 12"	**COA** n/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** n/A		

SPECIAL INSTRUCTIONS

**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
This is a retake of sample from this location.
(1) pH (Soil) - 9045; ICPMS Tc-99_WE(TF); Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pyrene, Pyridine, Total cresols, Tributyl phosphate}; 6010_Metals_ICP {Aluminum, Barium, Beryllium, Bismuth, Boron, Calcium, Cerium, Chromium, Cobalt, Copper, Europium, Iron, Lanthanum, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Nickel, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Silicon, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thorium, Tin, Titanium, Tungsten, Vanadium, Yttrium, Zinc, Zirconium}; 6020_METALS_ICPMS (TF) {Antimony, Arsenic, Cadmium, Lead, Selenium, Silver, Thallium}; Mercury - 7471 - (CV) (TF); IC Anions - 9056; 300.7_AMMONIUM (TF); Total Cyanide - 9014 (TF); GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Thorium-228, Thorium-234}; Americium-241 (TF); I129_SEP_GEA (TF); C-14; CURIUM {Curium-242, Curium-243/244}; H3 - TRITIUM; Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Total Sr; Actinides ICPMS (TF) {Neptunium-237, Thorium-230, Thorium-232, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238}; RADISO_ICPMS (TF) {Technetium-99, Tin-126}; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF); PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};

PRINTED ON 7/18/2011

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-109	PAGE 1 OF 2
COLLECTOR Campbell / Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8104 Surface Dup	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 6" – 12"	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPF2	SOIL	7-21-11	0845	~

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
Campbell 7-21-11 1015	RT Steele RTSteele AHL 7-21-11 1015	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/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

Cmmr. 7-21-11

TB 0°C Metal

GRP# 20111030

S11V0052464 - Surface Dup

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

PRINTED ON 7/18/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-109	PAGE 2 OF 2
COLLECTOR Campbell/Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8104 Surface Dup	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 6" – 12"	**COA** n/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** n/A		**BILL OF LADING/AIR BILL NO.** n/A		

SPECIAL INSTRUCTIONS

**Only samples from intervals within the top 15 ft. will be analyzed for pesticides,and PCBs.

This is a retake of sample from this location.
(1) pH (Soil) - 9045; ICPMS Tc-99_WE(TF); Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pyrene, Pyridine, Total cresols, Tributyl phosphate}; 6010_Metals_ICP {Aluminum, Barium, Beryllium, Bismuth, Boron, Calcium, Cerium, Chromium, Cobalt, Copper, Europium, Iron, Lanthanum, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Nickel, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Silicon, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thorium, Tin, Titanium, Tungsten, Vanadium, Yttrium, Zinc, Zirconium}; 6020_METALS_ICPMS (TF) {Antimony, Arsenic, Cadmium, Lead, Selenium, Silver, Thallium}; Mercury - 7471 - (CV) (TF); IC Anions - 9056; 300.7_AMMONIUM (TF); Total Cyanide - 9014 (TF); GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Thorium-228, Thorium-234}; Americium-241 (TF); I129_SEP_GEA (TF); C-14; CURIUM {Curium-242, Curium-243/244}; H3 - TRITIUM; Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Total Sr; Actinides ICPMS (TF) {Neptunium-237, Thorium-230, Thorium-232, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238}; RADISO_ICPMS (TF) {Technetium-99, Tin-126}; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF); PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};

PRINTED ON 7/18/2011

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	☑ LO-090-101 Rev E.E, 0 ○ LO-090-102 Rev

Date Samples Received: 6.29.11 Group #: 20111030

Number of Samples: 1 set C-CAGM y Adose C 8104-I001

Sample Custodian: RtDietz

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	0°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)	✓			MO 409

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

PM to Complete:

Samples acceptable for release? yes PM Initials GPR Date 6-29-2011

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 1)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-072	PAGE 1 OF 1
COLLECTOR Campbell / Ekstrom	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8104 I001	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ-10-00004	**ACTUAL SAMPLE DEPTH** 5.7 - 7.7 Ft.	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9Y6 A	SOIL	6/30/11	1042	✓
B2F9Y7 B	SOIL	6/30/11	1042	✓
B2F9Y8 C	SOIL	6/30/11	1042	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
BE Ekstrom BE Ekstrom	6/29/11 1150	RT Steele RTSteele ATL	6.29.11 1150

SPECIAL INSTRUCTIONS

**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

Bulk Campbell 6-29-11

0°C
Temp blank
Received

Gapt 20111030
S11V005050 Liner A
S11V005051 Liner B
S11V005052 Liner C

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

PRINTED ON 6/20/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-071	PAGE 1 OF 1
COLLECTOR Campbell / Ekstran	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8104 I001	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 5.7- 7.7 FT BGS	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9X6	SOIL	6-29-11	1042	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RL Elston BC Elston	6/29/11 1150	RLCtool RTSteele AFC	6.29.11 1150
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

Bobby Cahill 6-29-11

Temp blank 0°C received

GRPH 20111030

S11V005053 Shoe

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

PRINTED ON 6/20/2011

A-6003-618 (REV 2)

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	☒ LO-090-101 Rev E.G.0 ○ LO-090-102 Rev

Date Samples Received: 6.30.11 Group #: 20111030

Number of Samples: (3) sets C-Farm VA Dose C8104 / I002, 3, 4

Sample Custodian: RHLteub

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	10C per			☐ 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials RHL Date 6.30.11

If No, comment on communication and resolution: Per CSM

Other Comments:

A-6005-342 (REV 1)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		V11-001-074	PAGE 1 OF 1
COLLECTOR: Elsstrom / Campbell	COMPANY CONTACT: ANASTOS, HL	TELEPHONE NO.: 373-2616	PROJECT COORDINATOR: SYDNOR, HA	PRICE CODE: C03
SAMPLING LOCATION: C8104 I002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V11-001	AIR QUALITY: ☐
ICE CHEST NO.: 003	FIELD LOGBOOK NO.: TNZ-10-000004	ACTUAL SAMPLE DEPTH: 11.5-13.5 Ft	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A	

DATA TURNAROUND: 60 Days / 120 Days

ORIGINAL

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9Y9	SOIL Liner A	6/30/11	0905	✓
~~B2FB00~~	~~SOIL~~	6/30/11	0905	✓
~~B2FB01~~	~~SOIL~~	6/30/11	0905	✓

BR Elsstrom 6/30/11
BC Elsstrom 6/30/11

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BC Elsstrom BC Elsstrom	6/30/11 1100	RTSteele RTSteele ATL	6.30.11 1100

SPECIAL INSTRUCTIONS

**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TFF {Bulk density - wet};

Temp blank ~1°C Melted

GRP# 20111030
Liner A ~~SIIV005070~~ MO 7-5-11
SIIV005070

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

PRINTED ON 6/15/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-073	PAGE 1 OF 1
COLLECTOR Ekstrom / Campbell	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8104 I002	**PROJECT DESIGNATION** WMA C Sampling for CMS 11.5 TO 13.5 Ft.		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 11.5-13.5 Ft	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
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~6C
		HOLDING TIME	24 Hours
		TYPE OF CONTAINER	G
		NO. OF CONTAINER(S)	1
		VOLUME	500mL
	SPECIAL HANDLING AND/OR STORAGE	**SAMPLE ANALYSIS**	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9X7	SOIL - Shoe	6/30/11	0905	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
BC Ekstrom	6/30/11 1100	RT Steele RJ Steele	6/30/11 1100

SPECIAL INSTRUCTIONS

**LABORATORY

Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.

After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

BC Ekstrom 6-30-11

~1°c
Temp blank
RT Steele

6 GRAB 20111030 20111073 >mo 7-5-11
Shoe ~~S11V005073~~ S11V005073

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

PRINTED ON 6/15/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		V11-001-076	PAGE 1 OF 1
COLLECTOR: Ekstrom / Campbell	COMPANY CONTACT: ANASTOS, HL	TELEPHONE NO.: 373-2616	PROJECT COORDINATOR: SYDNOR, HA	PRICE CODE: C03 — DATA TURNAROUND: 60 Days / 120 Days
SAMPLING LOCATION: C8104 I003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V11-001	AIR QUALITY: ☐
ICE CHEST NO.: 003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 13.5 to 15.5 ft	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE — **ORIGINAL**
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A	

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9X9 A	SOIL	6/30/11	0945	✓
B2F9Y0 B	SOIL	6/30/11	0945	✓
~~B2F9Y1~~	~~SOIL~~	~~6/30/11~~	~~0945~~	✓

BC Ekstrom 6/30/11

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: BC Ekstrom BC Ekstrom	6/30/11 1100	RECEIVED BY/STORED IN: RH Steele RH Steele ATL	6-30-11 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};
Bobby Campbell 6-30-11
Temp blank -1°c [illegible]
GRP # 20111030 mo 7-5-11
Liner A ~~S11V0 5090~~ S11V005090
Liner B ~~S11V0 5091~~ mo 7-5-11 S11V005091

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

PRINTED ON 6/15/2011 A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V11-001-075	PAGE 1 OF 1

COLLECTOR Ekstrom / Campbell	COMPANY CONTACT ANASTOS, HL	TELEPHONE NO. 373-2616	PROJECT COORDINATOR SYDNOR, HA	PRICE CODE C03 DATA TURNAROUND 60 Days / 120 Days
SAMPLING LOCATION C8104 I003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V11-001	AIR QUALITY ☐
ICE CHEST NO. 003	FIELD LOGBOOK NO. TFV2-10-000004	ACTUAL SAMPLE DEPTH 13.5 to 15.5 ft	COA N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE **ORIGINAL**
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A	

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool 6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9X8 Shoe	SOIL	6/30/11	0945	✓

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: BL Ekstrom	6/30/11 1100	RECEIVED BY/STORED IN: RJ Steele ATL	6-30-11 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
[signature] 6-30-11
Temp blank -1°c [initials]
GRI # 20111030
Shoe S11V005093

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

PRINTED ON 6/15/2011 A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-078	PAGE 1 OF 1
COLLECTOR Ekstrom / Campbell	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8104 I004	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 16.1 to 18.1 Ft	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.		MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9Y3	A	SOIL	6/30/11	1030	✓
B2F9Y4	B	SOIL	6/30/11	1030	✓
B2F9Y5	C	SOIL	6/30/11	1030	✓

CHAIN OF POSSESSION	SIGN/ PRINT NAMES		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B2 Ekstrom BC Ekstrom	6/30/11 1100	R Steele ATL	6.30.11 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

6-30-11

Temp blank ~10c

Batch 20111030
A S11V005110
B S11V005111
C S11V005112

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

PRINTED ON 6/15/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-077	PAGE 1 OF 1
COLLECTOR Ekstrom/Campbell	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8104 I004	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFR2-10-000004	**ACTUAL SAMPLE DEPTH** 16.1 to 18.1 ft	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9Y2 Shoe	SOIL	6/30/11	1030	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
BC Ekstrom	6/30/11 1100	RTSteele ATL	6.30.11 1100
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
6-30-11
Temp blank ~1°C
6296 20111030
Shoe SIIV005113

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

PRINTED ON 6/15/2011

A-6003-618 (REV 2)

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

Date Samples Received: 10-13-11

Group #: 20111030, 20111250 (L Farm) 20111272, 20111243, 20111290 (S Farm) DPR 10-17-11

Number of Samples: 21 total

Sample Custodian: [signature]

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present	✓			on Ice Cooler
Record cooler temperature in centigrade, as appropriate				☐ Check if no cooler and/or no ice Cooler 1, 0°C Cooler 2, 0°C
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	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle	✓			
• 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Y/N/S PM Initials [initials] Date 10/13/11

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 2)

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No.
N/A 112817		20111031
		Page 1 of 1

Collector: Campbell/Sharp	Contact/Requestor: Jo Marie Johnson/Steve McKinney	Telephone No. 372-9474 MSIN T6-02 FAX
SAF No.: N/A	Sample Origin: C Farm Vadose	Purchase Order/Charge Code: N/A
Project Title: C Farm CMA 2011-1	Logbook/ Work Package No.: N/A	Ice Chest No. GWS-210 Temp. N/A
Shipped To (Lab): WSCF	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: N/A	Data Turnaround: per SDG	Parts and Return No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
1	B2FPF1		7-21-11	0845	~~2 500 mL glass~~ 1 1-LITER	see List 1 (Lab Sample ID S11V005448)	<6 C
2	B2FPF2		7-21-11	0845	~~2 500 mL glass~~ 1 1-LITER	see List 1 (Lab Sample ID S11V005464)	<6 C
						Grp 20111030 (2225)	
						1) Surface - Composite	
						2) Surface Dup - Composite	
						~~List 1: CN-EDTA, pH solid, Tc-99 (1:1 water digest), conductivity, SVOA,~~	
						~~IC anions/small organic acids, ammonia, GEA screen, total activity.~~	
						APK 10-17-11 GEA + TAB LOGGED INTO ~~Group 112816~~	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

~~Send results to Steve McKinney (Steve G Mckinney@rl.gov) and Mellissa Garrard (see SOW for e-mail address) Contract 36612, rel. 9~~

Report per FSAP. APK 10-17-11

Required Analyses per email 10-17-11

Hold Time

~~7 days~~

0 °C allowed

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
TA Frazier	Teresa Frazier		10/13/11 1000	L.D. Wall	L.D. Wall	L.D. Wall	10/13/11 1000
L.D. Wall	L.D. Wall	L.D. Wall	10/13/11 1045	RT Steele	RT Steele	ATC	10/13/11 1045
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S = Soil		DL = Drum Liquids	
SE = Sediment		T = Tissue	
SO = Solid		WI = Wipe	
SL = Sludge		L = Liquid	
W = Water		V = Vegetation	
O = Oil		VA = Vapor	
A = Air		X = Other	
DS = Drum Solids			

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No.
N/A 112816		20111031
		Page 1 of 1

Collector: Campbell/Sharp	Contact/Requestor: Jo Marie Johnson/Steve McKinney	Telephone No. 372-9474 MSIN T6-02 FAX
SAF No.: N/A	Sample Origin: C Farm Vadose	Purchase Order/Charge Code: N/A
Project Title: C Farm CMA 2011-1	Logbook/ Work Package No.: N/A	Ice Chest No. GWS-210 Temp. N/A
Shipped To (Lab): WSCF	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: N/A	Data Turnaround: ASAP	Parts and Return No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
1	B2FPF1		7-21-11	0845	60 mL glass	GEA, total activity (Lab Sample ID S11V005450)	<6 C
2	B2FPF2		7-21-11	0845	60 mL glass	GEA, total activity (Lab Sample ID S11V005466)	<6 C
						~~Please expedite these analyses to permit off site shipment.~~	
						Grp 2011030 (222S)	
						1) Surface GEA S11V005450	
						2) Surface Dup GEA S11V005466	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

~~Send results to Steve McKinney (Steve G McKinney@rl.gov) and Mellissa Garrard (see SOW for e-mail address)~~
Contract 36612, rel. 9
Report per FSAP SOW 10-17-11
Required analyses per email 10-17-4

Hold Time: per work instruction

0°C RHLab

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Leslie Matz	Leslie Matz		8-1-11 1400				8/1/11 1400
TA Frazier			10/3/11 1000	L.D. Wall	L.D. Wall		10/3/11 1000
L.D. Wall	L.D. Wall		10/3/11 1045	RHLab	RHLab		10/3/11 1045
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S = Soil		DL = Drum Liquids	
SE = Sediment		T = Tissue	
SO = Solid		WI = Wipe	
SL = Sludge		L = Liquid	
W = Water		V = Vegetation	
O = Oil		VA = Vapor	
A = Air		X = Other	
DS = Drum Solids			

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No.
N/A 11275		20111031
		Page 1 of 1

Collector: Campbell/Sharp	Contact/Requestor: Jo Marie Johnson/Steve McKinney	Telephone No. 372-9474 MSIN T6-02 FAX
SAF No.: N/A	Sample Origin: C Farm Vadose	Purchase Order/Charge Code: N/A
Project Title: C Farm CMA 2011-1	Logbook/ Work Package No.: N/A	Ice Chest No. GWS-051 Temp. N/A
Shipped To (Lab): WSCF	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: N/A	Data Turnaround: per SDG	Parts and Return No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
1	B2FB27		6-~~29~~-11 30 MA 07/15/11	1042	1 L glass	see List 1 (Lab Sample ID S11V005~~054~~ 5746 SPR 10-17-11 I-001 Comp.	<6 C
2	B2FB29		6-30-11	~~0905~~ 0945 MA 07/15/11	1 L glass	see List 1 (Lab Sample ID S11V005094 I-002+3 Composite	<6 C
3	B2FB30		6-30-11	1030	1 L glass	see List 1 (Lab Sample ID S11V005114 I-004 Composite	<6 C
4	B2FB31		7-12-11	0940	1 L glass	see List 1 (Lab Sample ID S11V00~~5132~~ 5677 I-005 Composite	<6 C
						Grp. 20111030 (2225)	
						~~List 1: CN-EDTA, pH-solid, Tc-99 (1:1 water digest), conductivity, GVOA,~~	
						~~IC anions/small organic acids, ammonia. Shipping analyses (GEA screen and~~	
						~~total activity) are requested on an expedited basis. Shipping analyses~~	
						~~are to be submitted via approved spreadsheet.~~ SPR 10-17-11	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

~~Send results to Steve McKinney (Steve_G_McKinney@rl.gov) and Mellissa Garrard (see SOW for e-mail address) Contract 36612, rel. 9~~

Repeat per FSAD SPR 10-17-11

Required Analyses per email 10-17-11

Hold Time ~~14 days~~ 0 °C chilled

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
TA Frazier	Teresa Frazier		10/13/11 1000	L.D. WALL	L.D. Wall	L.D. Wall	10/13/11 1000
L.D. WALL	L.D. Wall	L.D. Wall	10/13/11 1045	R.L. Steele	R.L. Steele	R.L. Steele ATL	10/13/11 1045
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S = Soil		DL = Drum Liquids	
SE = Sediment		T = Tissue	
SO = Solid		WI = Wipe	
SL = Sludge		L = Liquid	
W = Water		V = Vegetation	
O = Oil		VA = Vapor	
A = Air		X = Other	
DS = Drum Solids			

FINAL SAMPLE DISPOSITION — Disposal Method (e.g., Return to customer, per lab procedure, used in process) — Disposed By — Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No.
N/A 112794		20111031
		Page 1 of 1

Collector: Campbell/Sharp	Contact/Requestor: Jo Marie Johnson/Steve McKinney	Telephone No. 372-9474 MSIN T6-02 FAX
SAF No.: N/A	Sample Origin: C Farm Vadose	Purchase Order/Charge Code: N/A
Project Title: C Farm CMA 2011-1	Logbook/ Work Package No.: N/A	Ice Chest No. GWS-210 Temp. N/A
Shipped To (Lab): WSCF	Method of Shipment: Govt. vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: N/A	Data Turnaround: per SDG	Parts and Return No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
	B2FB32		7-14-11		1 L glass	see List 1 (Lab Sample ID S11V005150 I-006 Composite	<6 C
	~~B2FB32~~		~~7-14-11~~		~~125mL glass~~	~~see List 2 (Lab Sample ID S11V005445).~~ KB 10/13/11	
						LAD 7-14-11	
						Grp. 20111030 (2225)	
						~~List 1: CN-EDTA, pH-solid, Tc-99 (1:1 water digest), conductivity,~~ SVOA, APR 10-17-11	
						IC ~~anions/small organic acids, ammonia~~	
						~~List 2 Ship HQ~~ outside Lab	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS

~~Send results to Steve McKinney (Steve G Mckinney@rl.gov) and Mellissa Garrard (see SOW for e-mail address) Contract 36612, rel. 9~~ APR 10-17-11

Report per FSAP

Required analyses per email 10-17-11

Hold Time: 7 days

0°C rlltech

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leslie Diaz	7/14/11 1500		7/14/11 1500
TA Brazier	10/13/11 1000	L.D. Wall L.D. Wall	10/13/11 1000
L.D. Wall L.D. Wall	10/13/11 1045	RHFeele RHFeele ATL	10/13/11 1045
Relinquished By	Date/Time	Received By	Date/Time

Matrix*

S = Soil		DL = Drum Liquids	
SE = Sediment		T = Tissue	
SO = Solid		WI = Wipe	
SL = Sludge		L = Liquid	
W = Water		V = Vegetation	
O = Oil		VA = Vapor	
A = Air		X = Other	
DS = Drum Solids			

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler N/A 112795		C.O.C. No. 20111031 Page 1 of 1
Collector Campbell/Sharp	Contact/Requestor Jo Marie Johnson/Steve McKinney	Telephone No. 372-9474 MSIN T6-02 FAX
SAF No. N/A	Sample Origin C Farm Vadose	Purchase Order/Charge Code N/A
Project Title C Farm CMA 2011-1	Logbook/ Work Package No. N/A	Ice Chest No. GWS-210 Temp. N/A
Shipped To (Lab) WSCF	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. N/A
Protocol N/A	Data Turnaround per SDG	Parts and Return No. N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
	B2FB33		7-15-11	~~1042~~ 1030 +d 7-27-11	1 L glass	see List 1 (Lab Sample ID S11V005168) I007 Composite	<6 C
	~~B2FB34~~		~~7-18-11~~	~~0905~~	~~1 L glass~~	~~see List 1 (Lab Sample ID S11V005186)~~ LAD 7-18-11	<6 C
	~~B2FB33~~		~~7-15-11~~	~~1030~~	~~125 mL glass~~	~~Ship Outside Lab (Lab Sample ID S11V005446)~~	<6 C
	~~B2FB34~~		~~7-18-11~~	~~0940~~	~~125 mL glass~~	~~Ship Outside Lab (Lab Sample ID S11V005447)~~	<6 C
	~~B2FB34~~		~~7/18/11~~	~~1030~~	~~125 ml glass~~	~~See list 1 (Lab sample ID S11V005446)~~ LB 10/13/11	
						~~List 1: CN EDTA, pH solid, Tc-99 (1:1 water digest), conductivity, SVOA,~~	
						~~IC anions/small organic acids, ammonia, GEA screen, total activity~~ DPR 10-17-11	
						GRP. 20111030 (2225)	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS — Hold Time ~~7 days~~

~~Send results to Steve McKinney (Steve_G_Mckinney@rl.gov) and Mellissa Garrard (see SOW for e-mail address) Contract 36612, rel. 9~~ DPR 10-17-11

0 °C RHSteele

Report per FSAP

Required analyses per email 10-17-11

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leslie Diaz / Leslie Diaz	7-18-11 ~~15:40~~ 1340	TA Frazier / [signature]	7-18-11 1340
[signature] / [signature]	10/13/11 1000	L.D. WALL / L.D. Wall	10/13/11 1000
L.D. WALL / L.D. Wall	10/13/11 1045	RHSteele / RHSteele ATL	10/13/11 1045

Matrix*

S = Soil	DL = Drum Liquids	SE = Sediment	T = Tissue
SO = Solid	WI = Wipe	SL = Sludge	L = Liquid
W = Water	V = Vegetation	O = Oil	VA = Vapor
A = Air	X = Other	DS = Drum Solids	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Assembler N/A 112796	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. 20111031 / Page 1 of 1	
Collector Campbell/Sharp	Contact/Requestor Jo Marie Johnson/Steve McKinney	Telephone No. 372-9474	MSIN T6-02 FAX
SAF No. N/A	Sample Origin C Farm Vadose	Purchase Order/Charge Code N/A	
Project Title C Farm CMA 2011-1	Logbook/ Work Package No. N/A	Ice Chest No. GWS-210	Temp. N/A
Shipped To (Lab) WSCF	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. N/A	
Protocol N/A	Data Turnaround per SDG	Parts and Return No. N/A	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
	B2FB34		7-19-11		1 L glass	see List 1 (Lab Sample ID S11V005~~168~~) S11V005186 I-008	<6 C
	~~B2FB34~~		~~7-19-11~~		~~125 mL glass~~	~~Ship Outside Lab (Lab Sample ID S11V005447)~~ Composite	<6 C
					KB 10/13/11		
						Grp. 20111030	
						~~List 1: CN-EDTA, pH-solid, Tc-99 (1:1 water digest), conductivity, SVOA,~~	
						~~IC anions/small organic acids, ammonia, GEA screen, total activity.~~ JPL 10-17-11	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ⦿ No

SPECIAL INSTRUCTIONS — Hold Time ~~7 days~~

~~Send results to Steve McKinney (Steve G Mckinney@rl.gov) and Mellissa Garrard (see SOW for e-mail address)~~ JPL-10-17-11
Contract 36612, rel. 9
Report per FSAP JPL-10-17-11
Required analyses per email 10-17-11
0°c RHSteele

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leslie Diaz / Leslie Diaz	7/19/11 1425	Kayla Breazeale / K Bz	7/19/11 1425
TA Frazier / Teresa Frazier	10/13/11 1000	L.D. WAll / L.D. Wall	10/13/11 1000
L.D. WAll / L.D. Wall	10/13/11 1045	RH Steele / RHSteele AHL	10/13/11 1045

Matrix*
S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air; DS = Drum Solids; DL = Drum Liquids; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; VA = Vapor; X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

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

Date Samples Received: 10.25.11 Group #: 20111362

Number of Samples: 2 C-FARM C8106 SOR / SORDUP

Sample Custodian: RtCtech

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete				☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	0°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	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle			✓	
• 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials RTS Date 10.25.11

If No, comment on communication and resolution: Per CSM
G.P.R

Other Comments:

A-6005-342 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-110	PAGE 1 OF 2
COLLECTOR Campbell / Snook	COMPANY CONTACT ANASTOS, HL	TELEPHONE NO. 373-2616	PROJECT COORDINATOR SYDNOR, HA	PRICE CODE C03	DATA TURNAROUND 60 Days / 120 Days
SAMPLING LOCATION C8106 Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V11-001	AIR QUALITY ☐	
ICE CHEST NO. 001	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 1'-1.5'	COA n/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
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~6C
		HOLDING TIME	24 Hours
		TYPE OF CONTAINER	G
		NO. OF CONTAINER(S)	2
		VOLUME	500mL
	SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B2FPX9	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPR7	SOIL	10-25-11	0945	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature] Campbell	10-25-11 1200	[signature] RTSTEELE ATL	10-25-11 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

[signature] 10-25-11

Temp blank ~0°c rltstul 10.25.11

GRP # 2011 1362

Sam # ~~S11V5857~~ rltsteele S11V005857

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

PRINTED ON 9/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-110	PAGE 2 OF 2
COLLECTOR Campbell/Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03 **AIR QUALITY** ☐	**DATA TURNAROUND** 60 Days / 120 Days
SAMPLING LOCATION C8106 Surface	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001		
ICE CHEST NO. 001	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 1 - 1.5	**COA** n/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** n/A		**BILL OF LADING/AIR BILL NO.** n/A		

SPECIAL INSTRUCTIONS

**Only samples from intervals within the top 15 ft. will be analyzed for pesticides,and PCBs.
(1) pH (Soil) - 9045; ICPMS Tc-99_WE(TF); Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pyrene, Pyridine, Total cresols, Tributyl phosphate}; 6010_Metals_ICP {Aluminum, Barium, Beryllium, Bismuth, Boron, Calcium, Cerium, Chromium, Cobalt, Copper, Europium, Iron, Lanthanum, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Nickel, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Silicon, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thorium, Tin, Titanium, Tungsten, Vanadium, Yttrium, Zinc, Zirconium}; 6020_METALS_ICPMS (TF) {Antimony, Arsenic, Cadmium, Lead, Selenium, Silver, Thallium}; Mercury - 7471 - (CV) (TF); IC Anions - 9056; 300.7_AMMONIUM (TF); Total Cyanide - 9014 (TF); GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Thorium-228, Thorium-234}; Americium-241 (TF); I129_SEP_GEA (TF); C-14; CURIUM {Curium-242, Curium-243/244}; H3 - TRITIUM; Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Total Sr; Actinides ICPMS (TF) {Neptunium-237, Thorium-230, Thorium-232, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238}; RADISO_ICPMS (TF) {Technetium-99, Tin-126}; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF); PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};

PRINTED ON 9/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-144	PAGE 1 OF 2
COLLECTOR Campbell / Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 Surface Dup	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 001	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 1-1.5 ft	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
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
RADIOACTIVE TIE TO: B2FR66

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPR8	SOIL	10-25-11	0945	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
Campbell Campbell	10-25-11 1200	R Attack R Hagele AFC	10.25.11 1200

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

Scott Snook 10-25-11

Temp blank
~0°C
R Attack 10.25.11

GRP # 20111362
SAM # 511V005871

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

PRINTED ON 9/12/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-144	PAGE 2 OF 2
COLLECTOR Campbell/Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 Surface Dup	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 001	**FIELD LOGBOOK NO.** TFV2-10-00004	**ACTUAL SAMPLE DEPTH** 1'-1.5'	**COA** n/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** n/A		**BILL OF LADING/AIR BILL NO.** n/A		

SPECIAL INSTRUCTIONS

**Only samples from intervals within the top 15 ft. will be analyzed for pesticides,and PCBs.
(1) pH (Soil) - 9045; ICPMS Tc-99_WE(TF); Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pyrene, Pyridine, Total cresols, Tributyl phosphate}; 6010_Metals_ICP {Aluminum, Barium, Beryllium, Bismuth, Boron, Calcium, Cerium, Chromium, Cobalt, Copper, Europium, Iron, Lanthanum, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Nickel, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Silicon, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thorium, Tin, Titanium, Tungsten, Vanadium, Yttrium, Zinc, Zirconium}; 6020_METALS_ICPMS (TF) {Antimony, Arsenic, Cadmium, Lead, Selenium, Silver, Thallium}; Mercury - 7471 - (CV) (TF); IC Anions - 9056; 300.7_AMMONIUM (TF); Total Cyanide - 9014 (TF); GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Thorium-228, Thorium-234}; Americium-241 (TF); I129_SEP_GEA (TF); C-14; CURIUM {Curium-242, Curium-243/244}; H3 - TRITIUM; Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Total Sr; Actinides ICPMS (TF) {Neptunium-237, Thorium-230, Thorium-232, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238}; RADISO_ICPMS (TF) {Technetium-99, Tin-126}; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF); PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};

PRINTED ON 9/12/2011

A-6003-618 (REV 2)

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

Date Samples Received: 10.26.11 Group #: 20111362

Number of Samples: 3 sets VADOSE C-FARM C8106 1, 2, 3

Sample Custodian: RH Leach

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete		✓		☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	0°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	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle			✓	
• 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials RHL Date 10.26.11

If No, comment on communication and resolution: per C.S.M.

Other Comments:

A-6005-342 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		V11-001-113	PAGE 1 OF 1
COLLECTOR Campbell/Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03 **DATA TURNAROUND**
SAMPLING LOCATION C8106 I001	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐ **60 Days / 120 Days**
ICE CHEST NO. 001 BC-10-26-11 003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 11'-13'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE **ORIGINAL**
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
RADIOACTIVE TIE TO: B2FPY0

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPT0 A	SOIL	10-26-11	0900	✓
B2FPT1 B	SOIL	10-26-11	0900	✓
B2FPT2 C	SOIL	10-26-11	0900	✓

GRPH 20111362
SAMP# S11V005383 ~~5384~~ ~~5385~~ MMC 10-26-11

Liner A S11V005883
Liner B S11V005884
Liner C S11V005885

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
Campbell 10-26-11 1245	RTSteele AR 10.26.11 1245	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

T.B. Scott Sweet 10.26.11
0°C received

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

PRINTED ON 7/26/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-112	PAGE 1 OF 1
COLLECTOR Campbell / Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 I001	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. ~~003~~ MC 10-25-11 BC 10-26-11 003	**FIELD LOGBOOK NO.** TFVZ-10-00004	**ACTUAL SAMPLE DEPTH** 11 – 13	**COA** n/a	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
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
RADIOACTIVE TIE TO: B2FPY0

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPR9	SOIL	10-26-11	0900	V

GAP # 2011136Z
SAM # ~~SHOE5586~~
mmo
10-26-11

Shoe - S11V00058 86

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
Campbell Campbell	10-26-11 1245	RTSteele ATL	10.26.11 1245

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
Scott Sweet 10.26-11

T.B.
0 µlkd

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		V11-001-115	PAGE 1 OF 1
COLLECTOR Campbell / Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03 **DATA TURNAROUND**
SAMPLING LOCATION C8106 I002	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐ **60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2.-10-000004	**ACTUAL SAMPLE DEPTH** 19'-21'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE **ORIGINAL**
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
RADIOACTIVE TIE TO: B2FPY1

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

GRP # 20111362
Sam # S11V005902 Liner A
S903 Liner B
S904 Liner C

SAMPLE NO.		MATRIX*		SAMPLE DATE	SAMPLE TIME	
B2FPT4	A	SOIL	1	10-26-11	1015	✓
B2FPT5	B	SOIL		10-26-11	1015	✓
B2FPT6	C	SOIL		10-26-11	1015	✓

CHAIN OF POSSESSION	SIGN/ PRINT NAMES
RELINQUISHED BY/REMOVED FROM Gabriel Campbell **DATE/TIME** 10-26-11 1245	**RECEIVED BY/STORED IN** RHKtab RHKtab/6 AFL **DATE/TIME** 10.26.11 1245
RELINQUISHED BY/REMOVED FROM **DATE/TIME**	**RECEIVED BY/STORED IN** **DATE/TIME**
RELINQUISHED BY/REMOVED FROM **DATE/TIME**	**RECEIVED BY/STORED IN** **DATE/TIME**
RELINQUISHED BY/REMOVED FROM **DATE/TIME**	**RECEIVED BY/STORED IN** **DATE/TIME**
RELINQUISHED BY/REMOVED FROM **DATE/TIME**	**RECEIVED BY/STORED IN** **DATE/TIME**
RELINQUISHED BY/REMOVED FROM **DATE/TIME**	**RECEIVED BY/STORED IN** **DATE/TIME**

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};
Scott Sydnor 10-26-11

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			V11-001-114	PAGE 1 OF 1
COLLECTOR campbell / snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 I002	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000041	**ACTUAL SAMPLE DEPTH** 19' - 21'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
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
RADIOACTIVE TIE TO: B2FPY1

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPT3	SOIL	10-26-11	1015	✓

CRP # 20111362
Sam # S11V005905 shoe

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
Campbell C-pbell	10.26-11 1245	RHTech RICHELE ARL	10.26.11 1245

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
Scott Snook 10.26.11
T.B.
O'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			V11-001-117	PAGE 1 OF 1
COLLECTOR Campbell / Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 I003	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 27'-29'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
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
RADIOACTIVE TIE TO: B2FPY2

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPT8 A	SOIL	10-26-11	1200	✓
B2FPT9 B	SOIL	10-26-11	1200	✓
B2FPV0 C	SOIL	10-26-11	1200	✓

GRPH# 20111362
SAM# S11V005921 Liner A
5922 Liner B
5923 Liner C

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM / **DATE/TIME**	**RECEIVED BY/STORED IN** / **DATE/TIME**	
Cphill Campbell 10-26-11 1245	RTSteele ATL 10.26.11 1245	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

Scott Sweet 10-26-11
0°C
T.B. pilot

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			V11-001-116	PAGE 1 OF 1
COLLECTOR: Campbell/Snook	COMPANY CONTACT: ANASTOS, HL	TELEPHONE NO.: 373-2616	PROJECT COORDINATOR: SYDNOR, HA	PRICE CODE: C03	DATA TURNAROUND
SAMPLING LOCATION: C8106 I003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V11-001	AIR QUALITY: ☐	60 Days / 120 Days
ICE CHEST NO.: 003	FIELD LOGBOOK NO.: TFV2-10-000004	ACTUAL SAMPLE DEPTH: 27'- 29'	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	ORIGINAL
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
RADIOACTIVE TIE TO: B2FPY2

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPT7	SOIL	10-26-11	1200	✓

GRP# 20111362
SAM# S11V005924 Shoe

CHAIN OF POSSESSION	SIGN/ PRINT NAMES		
RELINQUISHED BY/REMOVED FROM: C Campbell	DATE/TIME: 10-26-11 1245	RECEIVED BY/STORED IN: R Stoddard 272	DATE/TIME: 10.26.11 1245
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

Scott Sweet 10-26-11

0°C
T.B. started

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

PRINTED ON 7/26/2011

A-6003-618 (REV 2)

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

Date Samples Received: 11·3·11 Group #: 20111362

Number of Samples: 1 set C FARm VAdose C8106 I004

Sample Custodian: RT Link

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete	✓			☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	0°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	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle			✓	
• 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials RTS Date 11·7·11

If No, comment on communication and resolution: per CSM

Other Comments:

A-6005-342 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-119	PAGE 1 OF 1
COLLECTOR Campbell / Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 I004	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 64-66	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
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
RADIOACTIVE TIE TO: B2FPY3

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPV2 A	SOIL	11-3-11	0900	✓
B2FPV3 B	SOIL	11-3-11	0900	✓
B2FPV4 C	SOIL	11-3-11	0900	✓

GRP # 20111362
Stm # S11V005940 Liner A
5941 Liner B
5942 Liner C

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM B Campbell B Campbell	**DATE/TIME** 11.3.11 0940	**RECEIVED BY/STORED IN** R Steele R Steele ATL	**DATE/TIME** 11.3.11 0940
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};
B Campbell 11-3-11
0°C Temp blank Rels

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

PRINTED ON 7/26/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-118	PAGE 1 OF 1
COLLECTOR Campbell/Snook	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 I004	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 64-66	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
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
RADIOACTIVE TIE TO: B2FPY3

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPV1	SOIL	11-3-11	0900	✓

GRP# 20111362
SAM # S11V005943 Shoe

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
BCampbell BCampbell	11-3-11 0940	RTSteele RTSteele ATL	11.3.11 0940
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

0°C
Temp blank related
BCampbell 11-3-11

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

PRINTED ON 7/26/2011

A-6003-618 (REV 2)

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

Date Samples Received: 11.4.11 Group #: 20111362

Number of Samples: 1 set C-Frame VA005C @ 8106 I005

Sample Custodian: RRtab

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete	✓			☑ In Project File
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	0°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	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle			✓	
• 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials RFL Date 11.4.11

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

Other Comments:

A-6005-342 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-121	PAGE 1 OF 1
COLLECTOR Campbell / Villarreal	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 I005	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 90-92	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
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
RADIOACTIVE TIE TO: B2FYL7

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

GRP # 20111362
SAM # S11V005959
S11V005960
S11V005961

SAMPLE NO.		MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPV6	A	SOIL	11-4-11	0900	✓
B2FPV7	B	SOIL	11-4-11	0900	✓
B2FPV8	C	SOIL	11-4-11	0900	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
B Campbell BC-pbell	11-4-11 1040	R Steele R Steele AFC	11.4.11 1040

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

Bulk Campbell 11-4-11

Temp blank 0°C related

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

PRINTED ON 7/26/2011

A-6003-618 (REV 2)

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

Date Samples Received: 11.7.11 Group #: 20111362

Number of Samples: 1 set C-FARM Vadose (C8106 - I006)

Sample Custodian: _____

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete	✓			☑ In Project File
Check that outer custody seal is intact, if present	✓			
Record cooler temperature in centigrade, as appropriate	0°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	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle			✓	
• 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials RTS Date 11.7.11

If No, comment on communication and resolution: Per C.S.M

Other Comments:

A-6005-342 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-123	PAGE 1 OF 1
COLLECTOR SHARP / VILLAREAL	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 I006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	60 Days / 120 Days
ICE CHEST NO. TFYS-0-003	**FIELD LOGBOOK NO.** TFHZ-10-000004	**ACTUAL SAMPLE DEPTH** 90-92 ft bgs 132'-134'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
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
RADIOACTIVE TIE TO: B2FYL8

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

GRP # 20111362
SAN # 511V005TF
5979
5980

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPW0 Liner A	SOIL	11-7-11	1047	✓
B2FPW1 Liner B	SOIL	11-7-11	1047	✓
B2FPW2 Liner C	SOIL	11-7-11	1047	✓

CHAIN OF POSSESSION	SIGN/ PRINT NAMES			
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	
RSS Rick Sharp	11-7-11 1200	RRStickle RRSteele AM	11-7-11 1200	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**	

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

11-7-11

0°C
Refrig Temp blank

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

PRINTED ON 7/26/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-122	PAGE 1 OF 1
COLLECTOR Sharp / Willard	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 I006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. TFVS-0-003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** ~~90' - 92'~~ Rlted 132' 139'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
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
RADIOACTIVE TIE TO: B2FYL8

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

GEA# 20111362
SMA# 511v005981

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPV9 shoe	SOIL	11-7-11	1047	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RWSharp	11-7-11 1200	Rlted RTSteele ATL	11-7-11 1200
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

11-7-11
0°C
Temp blank

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

PRINTED ON 7/26/2011

A-6003-618 (REV 2)

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

Date Samples Received: 11.8.11 Group #: 20111362

Number of Samples: 1 set C-Farm vadose C8106 I007

Sample Custodian: RHTeels

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?	✓			
Verify GKI is complete	✓			☑ In Project File
Check that outer custody seal is intact, if present	✓			
Record cooler temperature in centigrade, as appropriate				☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓			If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:				
• Client name and client sample number	✓			
• Date and time of sampling	✓			
• Sampling location or origin	✓			
• Container type, size, and number	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle			✓	
• 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. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials RHT Date 11.8.11

If No, comment on communication and resolution: per C.S.M

Other Comments:

A-6005-342 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-125	PAGE 1 OF 1
COLLECTOR Campbell / Villarreal	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 I007	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-00004	**ACTUAL SAMPLE DEPTH** 161.5-163.5	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.		MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPW4	A	SOIL	11-8-11	1020	✓
B2FPW5	B	SOIL	11-8-11	1020	✓
B2FPW6	C	SOIL	11-8-11	1020	✓

GRP # 20111362

SAM # S11V005997
5998
5999

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
BCampbell BC-pbell	11-8-11 1115	RTSteele RTSteele ATL	11-8-11 1115

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

0°C Temp blank RTSteele 11-8-11

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

PRINTED ON 7/26/2011

A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-124	PAGE 1 OF 1
COLLECTOR Campbell / Villarreal	**COMPANY CONTACT** ANASTOS, HL	**TELEPHONE NO.** 373-2616	**PROJECT COORDINATOR** SYDNOR, HA	**PRICE CODE** C03	**DATA TURNAROUND**
SAMPLING LOCATION C8106 I007	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V11-001	**AIR QUALITY** ☐	**60 Days / 120 Days**
ICE CHEST NO. 003	**FIELD LOGBOOK NO.** TFV2-10-000004	**ACTUAL SAMPLE DEPTH** 161.5 - 163.5	**COA** n/a	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** n/a		**BILL OF LADING/AIR BILL NO.** n/a		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	Generic Testing;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPW3 shoe	SOIL	11-8-11	1020	✓

GRP # 20111362
SAM # S11V06 ~~5997~~ 6000
~~5998~~ rtt tech
~~5~~ 11/8/11

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	**DATE/TIME**	**RECEIVED BY/STORED IN**	**DATE/TIME**
BC Campbell BC Campbell	11-8-11 1115	RT Steele RT Steele ATL	11.8.11 1115

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.

11-8-11
0°C
Temp blank
rtt tech

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

PRINTED ON 7/26/2011

A-6003-618 (REV 2)

Appendix A

WSCF ANALYTICAL REPORTS

WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

September 12, 2011

Steve McKinney

Dear Steve McKinney,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF112817

Reference: (1) NA - No Customer Specification
(2) MSC-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Program Plan

This letter contains the following information for sample delivery group WSCF112817

* Cover Sheet (Attachment 1)
* Narrative (Attachment 2)
* Analytical Results (Attachment 3)
* Sample Receipt Information (Attachment 4)

Very truly yours,

Electronically signed by Joseph Hale

For Lab Manager

WSCF Analytical Lab

(509) 373-7495

Attachments 4

CC: w/Attachments
Heather Anastos
Melissa Garrard

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF112817
Data Deliverable Date 08/08/11

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
	B2FPF1	112817001	SOIL	07/21/11	08/01/11
	B2FPF2	112817002	SOIL	07/21/11	08/01/11

ATTACHMENT 2

NARRATIVE

Consisting of 3 pages
Including cover page

Attachment 2
Narrative
WSCF112817

Introduction

Two (2) samples were received at the WSCF Laboratory on August 1, 2011. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *HNF-SD-CP-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Program Plan.*

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results and a comment report detailing method abnormalities as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

The following generic data qualifiers (i.e., B, D, U and J) may be applicable to this report, as appropriate

- **B** – Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **D** – Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** – Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Inorganic Comments

Ammonia – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. QC batch report and analytical data indicate results as ammonia but give the CAS# as NH_4-N (ammonium). Analytical Note(s):

- All applicable QC controls are within the established limits.

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All applicable QC controls are within the established limits.

Conductivity – Hold time requirement for this analysis was met. A Laboratory Control Sample was analyzed with this delivery group. Analytical Note(s):

1

Attachment 2
Narrative
WSCF112817

- All applicable QC controls are within the established limits.

Cyanide – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All applicable QC controls are within the established limits.

ICP-MS Metals – The hold time requirements for this analysis were met. A Blank and Laboratory Control Sample were analyzed with this delivery group. Technetium-99 is analyzed without prep therefore there is no Matrix Spike or Matrix Spike Duplicate with analysis. Analytical Note(s):

- All applicable QC controls are within the established limits.

pH – The hold time requirement for this analysis was met. A Duplicate and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All applicable QC controls are within the established limits.

Organic Comments

Semi-VOA – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Pentachlorophenol did not meet the MS / MSD RPD acceptance limits. Sample results for this analyte were not flagged. The quality control report was flagged for RPD failure.
- Diethyl phthalate - was detected in the Blank. Affected sample results in this batch were "B" Flagged.
- All other applicable QC controls are within the established limits.

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 48 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

Washington River Protection Solutions

Attention: Steve McKinney

Contract # NA
Group # WSCF112817
Report Date September 12, 2011

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Marisol Avila

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no `Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Steve McKinney
Department Inorganic

Group # WSCF112817

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187667	187668	3	BLANK	62252	BLANK		Ammonia(N) by IC (S)
187667	187668	4	LCS	62253	LCS		Ammonia(N) by IC (S)
187667	187668	5	DUP	62254	B2FPF1(112817001DUP)	112817001	Ammonia(N) by IC (S)
187667	187668	6	MS	62255	B2FPF1(112817001MS)	112817001	Ammonia(N) by IC (S)
187667	187668	7	MSD	62256	B2FPF1(112817001MSD)	112817001	Ammonia(N) by IC (S)
187667	187668	8	SAMPLE	112817001	B2FPF1		Ammonia(N) by IC (S)
187667	187668	9	SAMPLE	112817002	B2FPF2		Ammonia(N) by IC (S)
187669	187670	2	BLANK	62261	BLANK		Anions by Ion Chromatography (Solid)
187669	187670	3	LCS	62262	LCS		Anions by Ion Chromatography (Solid)
187669	187670	4	MS	62263	B2FPF1(112817001MS)	112817001	Anions by Ion Chromatography (Solid)
187669	187670	5	MSD	62264	B2FPF1(112817001MSD)	112817001	Anions by Ion Chromatography (Solid)
187669	187670	6	DUP	62265	B2FPF1(112817001DUP)	112817001	Anions by Ion Chromatography (Solid)
187669	187670	7	SAMPLE	112817001	B2FPF1		Anions by Ion Chromatography (Solid)
187669	187670	8	SAMPLE	112817002	B2FPF2		Anions by Ion Chromatography (Solid)

Batch QC List

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187681	187746	1	BLANK	62306	BLANK		SW-846 8270D Semivolatiles
187681	187746	2	LCS	62307	LCS		SW-846 8270D Semivolatiles
187681	187746	3	MS	62308	B2FPF1(112817001MS)	112817001	SW-846 8270D Semivolatiles
187681	187746	4	MSD	62309	B2FPF1(112817001MSD)	112817001	SW-846 8270D Semivolatiles
187681	187746	5	SAMPLE	112817001	B2FPF1		SW-846 8270D Semivolatiles
187681	187746	6	SAMPLE	112817002	B2FPF2		SW-846 8270D Semivolatiles

Batch QC List

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112817

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187663	188088	1	BLANK	62244	BLANK		Technetium-99 by ICP MS
187663	188088	2	LCS	62245	LCS		Technetium-99 by ICP MS
187663	188088	3	SAMPLE	112817001	B2FPF1		Technetium-99 by ICP MS
187663	188088	4	DUP	62653	B2FPF1(112817001DUP)	112817001	Technetium-99 by ICP MS
187663	188088	5	SAMPLE	112817002	B2FPF2		Technetium-99 by ICP MS

Batch QC List

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112817

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187394	187394	1	LCS	61944	LCS		Conductivity
187394	187394	2	SAMPLE	112817001	B2FPF1		Conductivity
187394	187394	3	SAMPLE	112817002	B2FPF2		Conductivity
187395	187395	1	LCS	61945	LCS		Soil And Waste pH Measurement
187395	187395	2	DUP	61946	B2FPF1(112817001DUP)	112817001	Soil And Waste pH Measurement
187395	187395	3	SAMPLE	112817001	B2FPF1		Soil And Waste pH Measurement
187395	187395	4	SAMPLE	112817002	B2FPF2		Soil And Waste pH Measurement
187395	187395	5	LCS	61947	LCS		Soil And Waste pH Measurement
187415	187415	2	SAMPLE	112817001	B2FPF1		Dry Weight/Percent Moisture
187415	187415	3	SAMPLE	112817002	B2FPF2		Dry Weight/Percent Moisture
187656	187659	1	BLANK	62226	BLANK		Cyanide by Midi/Spectrophotometer
187656	187659	4	LCS	62228	LCS		Cyanide by Midi/Spectrophotometer
187656	187659	5	MS	62229	B2FPF1(112817001MS)	112817001	Cyanide by Midi/Spectrophotometer
187656	187659	6	MSD	62230	B2FPF1(112817001MSD)	112817001	Cyanide by Midi/Spectrophotometer
187656	187659	7	SAMPLE	112817001	B2FPF1		Cyanide by Midi/Spectrophotometer
187656	187659	8	SAMPLE	112817002	B2FPF2		Cyanide by Midi/Spectrophotometer

Method Reference

Attention Steve McKinney
Department Inorganic

Group # WSCF112817

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-503-401	Analysis of Cations by Ion Chromatography		
	HEIS	300.7_CATIONS_IC	Determination of Cations by IC
LA-533-410	Anion Analysis by Ion Chromatography		
	EPA-600/R-94-111	300.0	Determination of Inorganic Anions by Ion Chromatography
	HEIS	300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-523-456	Semivolatile Sample Analysis by SW-846 Method 8270D		
	EPA SW-846	8000B	Determinative Chromagraphic Separations
	EPA SW-846	3510C	Separatory Funnel Liquid-Liquid Extraction
	EPA SW-846	8270D	Semivolatile Organic Compounds by Gas
	EPA SW-846	3545	Pressurized Fluid Extraction (PFE)
			Chromatography/Mass Spectrometry (GC/MS)
	HEIS	8270_SVOA_GCMS	Semivolatile Organic Compounds by Gas
			Chromatography/Mass Spectrometry(GC/MS)

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112817

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-505-412	Technicium-99 by ICP-MS		
	HEIS	RADISOTOPES_ICPMS	Tc-99 by ICPMS

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112817

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-519-401	Conductivity		
	ASTM	D1125	Standard Test Methods for Electrical Conductivity and Resistivity of Water
	EPA SW-846	9050A	Specific Conductance
	HEIS	120.1_CONDUCT	Specific Conductance
LA-212-411	Determination of Soil pH Measurement		
	HEIS	150.1_PH	pH
LA-519-412	Total Residual Percent Solids Dried at 103 - 105 Degrees C		
	EPA-600/4-79-020	160.3	Total Residue
	Standard Methods	2540B	Total Solids Dried at 103-105 C
	HEIS	%SOLIDS	Dry Weight, Percent Solids
LA-695-402	Determination of Cyanide by Mididistillation and		
	EPA	SW-846 Method 9014/9010	Determination of Cyanide by Midi-Distillation and Spectrophotometric Analysis
	SM	4500 CNE	Cyanide, Total
	HEIS	335.2_CYANIDE	Cyanide, Total

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

WSCF Analytical Results Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112817

Sample # 112817001
SAF#
Sample ID B2FPF1

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anion Prep										**08/08/11**
Cation by IC										
Ammonia (N)	NH4-N	LA-503-401	U	<0.073		mg/kg	1	0.073	1.3	08/08/11
Anions by IC										**08/08/11**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	U	<0.31		mg/kg	1	0.31	0.62	08/08/11
Chloride	16887-00-6	LA-533-410	U	<0.54		mg/kg	1	0.54	3.5	08/08/11
Nitrite-N	NO2-N	LA-533-410	U	<0.17		mg/kg	1	0.17	0.85	08/08/11
Bromide	24959-67-9	LA-533-410	U	<0.72		mg/kg	1	0.72	4.1	08/08/11
Nitrate-N	NO3-N	LA-533-410	B	0.386		mg/kg	1	0.16	0.86	08/08/11
Phosphate-P	14265-44-2	LA-533-410	U	<0.43		mg/kg	1	0.43	3.1	08/08/11
Sulfate	14808-79-8	LA-533-410	U	<0.62		mg/kg	1	0.62	9.1	08/08/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112817

Sample # 112817002
SAF#
Sample ID B2FPF2

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anion Prep										**08/08/11**
Cation by IC										
Ammonia (N)	NH4-N	LA-503-401	U	<0.073		mg/kg	1	0.073	1.4	08/08/11
Anions by IC										**08/08/11**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	U	<0.31		mg/kg	1	0.31	0.62	08/08/11
Chloride	16887-00-6	LA-533-410	U	<0.54		mg/kg	1	0.54	3.5	08/08/11
Nitrite-N	NO2-N	LA-533-410	U	<0.17		mg/kg	1	0.17	0.85	08/08/11
Bromide	24959-67-9	LA-533-410	U	<0.72		mg/kg	1	0.72	4.2	08/08/11
Nitrate-N	NO3-N	LA-533-410	B	0.285		mg/kg	1	0.16	0.86	08/08/11
Phosphate-P	14265-44-2	LA-533-410	U	<0.43		mg/kg	1	0.43	3.1	08/08/11
Sulfate	14808-79-8	LA-533-410	U	<0.62		mg/kg	1	0.62	9.1	08/08/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
\+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Sample # 112817001
SAF#
Sample ID B2FPF1

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8270 Prep										**08/03/11**
SW-846 8270D										
4-Nitrophenol	100-02-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Phenol	108-95-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Pyrene	129-00-0	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Acenaphthene	83-32-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Pentachlorophenol	87-86-5	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Chlorophenol	95-57-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4-Nitroaniline	100-01-6	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4-Chloroaniline	106-47-8	LA-523-456	U	<300		ug/kg	1	300	800	08/08/11

MDL = Minimum Detection
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DF = Dilution Factor
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X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Sample # 112817001
SAF#
Sample ID B2FPF1

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Di-n-octylphthalate	117-84-0	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Hexachlorobenzene	118-74-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Anthracene	120-12-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Dimethylphthalate	131-11-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Dibenzofuran	132-64-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Fluoranthene	206-44-0	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Acenaphthylene	208-96-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Chrysene	218-01-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11

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WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Sample # 112817001
SAF#
Sample ID B2FPF1

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Benzo(a)anthracene	56-55-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Isophorone	78-59-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Diethyl phthalate	84-66-2	LA-523-456	JB	340		ug/kg	1	300	800	08/08/11
Di-n-butylphthalate	84-74-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Phenanthrene	85-01-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Butylbenzylphthalate	85-68-7	LA-523-456	U	<300		ug/kg	1	300	800	08/08/11
n-Nitrosodiphenylamine	86-30-6	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Fluorene	86-73-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11

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PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Sample # 112817001
SAF#
Sample ID B2FPF1

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbazole	86-74-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Hexachlorobutadiene	87-68-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Nitroaniline	88-74-4	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Nitrophenol	88-75-5	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Naphthalene	91-20-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Methylnaphthalene	91-57-6	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Chloronaphthalene	91-58-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Methylphenol	95-48-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Nitrobenzene	98-95-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
3-Nitroaniline	99-09-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Hexachloroethane	67-72-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
n-Decane	124-18-5	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
n-Dodecane	112-40-3	LA-523-456	U	<300		ug/kg	1	300	800	08/08/11
Benzyl alcohol	100-51-6	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11

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PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Sample # 112817001
SAF#
Sample ID B2FPF1

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Butoxyethanol	111-76-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Tributyl phosphate	126-73-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Naphthylamine	91-59-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Cyclohexanone	108-94-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Pyridine	110-86-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Benzoic Acid	65-85-0	LA-523-456	U	<200		ug/kg	1	200	2.E3	08/08/11

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WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Sample # 112817002
SAF#
Sample ID B2FPF2

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8270 Prep										**08/03/11**
SW-846 8270D										
4-Nitrophenol	100-02-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Phenol	108-95-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Pyrene	129-00-0	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Acenaphthene	83-32-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Pentachlorophenol	87-86-5	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Chlorophenol	95-57-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4-Nitroaniline	100-01-6	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4-Chloroaniline	106-47-8	LA-523-456	U	<300		ug/kg	1	300	800	08/08/11

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PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Sample # 112817002
SAF#
Sample ID B2FPF2

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Di-n-octylphthalate	117-84-0	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Hexachlorobenzene	118-74-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Anthracene	120-12-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Dimethylphthalate	131-11-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Dibenzofuran	132-64-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Fluoranthene	206-44-0	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Acenaphthylene	208-96-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Chrysene	218-01-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11

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WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Sample # 112817002
SAF#
Sample ID B2FPF2

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Benzo(a)anthracene	56-55-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Isophorone	78-59-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Diethyl phthalate	84-66-2	LA-523-456	JB	250		ug/kg	1	200	800	08/08/11
Di-n-butylphthalate	84-74-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Phenanthrene	85-01-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Butylbenzylphthalate	85-68-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
n-Nitrosodiphenylamine	86-30-6	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Fluorene	86-73-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11

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WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Sample # 112817002
SAF#
Sample ID B2FPF2

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbazole	86-74-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Hexachlorobutadiene	87-68-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Nitroaniline	88-74-4	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Nitrophenol	88-75-5	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Naphthalene	91-20-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Methylnaphthalene	91-57-6	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Chloronaphthalene	91-58-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Methylphenol	95-48-7	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Nitrobenzene	98-95-3	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
3-Nitroaniline	99-09-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Hexachloroethane	67-72-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
n-Decane	124-18-5	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
n-Dodecane	112-40-3	LA-523-456	U	<300		ug/kg	1	300	800	08/08/11
Benzyl alcohol	100-51-6	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Sample # 112817002
SAF#
Sample ID B2FPF2

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Butoxyethanol	111-76-2	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Tributyl phosphate	126-73-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
2-Naphthylamine	91-59-8	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Cyclohexanone	108-94-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Pyridine	110-86-1	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	<200		ug/kg	1	200	800	08/08/11
Benzoic Acid	65-85-0	LA-523-456	U	<200		ug/kg	1	200	2.E3	08/08/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112817

Sample # 112817001
SAF#
Sample ID B2FPF1

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**08/07/11**
TC-99 ICP/MS										
Technetium-99	14133-76-7	LA-505-412	U	<1.1E-3		ug/kg	1	1.1E-3		08/08/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112817

Sample # 112817002
SAF#
Sample ID B2FPF2

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**08/07/11**
TC-99 ICP/MS										
Technetium-99	14133-76-7	LA-505-412	U	<0.0010		ug/kg	1	0.0010		08/08/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112817

Sample # 112817001
SAF#
Sample ID B2FPF1

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Conductivity										**08/02/11**
Conductivity										
Conductivity	CONDUCT	LA-519-401		60.9		uS/cm	1	0.50	5.0	08/02/11
Cyanide Prep										**08/03/11**
Cyanide										
Cyanide	57-12-5	LA-695-402	U	<0.21		mg/kg	1	0.21	1.0	08/03/11
Total Residue										**08/02/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		96		percent	1			08/02/11
pH on Solids										**08/02/11**
pH on Solids										
pH	PH	LA-212-411		9.06		unitless	1	0.010	0.50	08/02/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112817

Sample # 112817002
SAF#
Sample ID B2FPF2

Matrix SOIL
Sampled 07/21/11
Received 08/01/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Conductivity										**08/02/11**
Conductivity										
Conductivity	CONDUCT	LA-519-401		59.4		uS/cm	1	0.50	5.0	08/02/11
Cyanide Prep										**08/03/11**
Cyanide										
Cyanide	57-12-5	LA-695-402	U	<0.21		mg/kg	1	0.21	1.0	08/03/11
Total Residue										**08/02/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		96		percent	1			08/02/11
pH on Solids										**08/02/11**
pH on Solids										
pH	PH	LA-212-411		9.10		unitless	1	0.010	0.50	08/02/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112817

QC Batch 187394
Associated Samples 112817001, 112817002

Test Conductivity

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #61944**							
Conductivity	CONDUCT		132	uS/cm	100.8	90 - 110				08/02/11

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112817

QC Batch 187395
Associated Samples 112817001, 112817002

Test Soil And Waste pH Measurement

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #61945**							
pH	PH		7.99	unitless	99.9	98.75 - 101.25				08/02/11
DUP			**QC Sample #61946**							
			Original 112817001							
pH	PH	9.06	9.08	unitless			0.30	30		08/02/11
LCS			**QC Sample #61947**							
pH	PH		7.99	unitless	99.9	98.75 - 101.25				08/02/11

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112817

QC Batch 187656
Associated Samples 112817001, 112817002

Test Cyanide by Midi/Spectrophotometer

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #62226**								
Cyanide	57-12-5		<4.0	ug/L						U	08/03/11
LCS			**QC Sample #62228**								
Cyanide	57-12-5		48.4	mg/kg	89.1	85 - 115					08/03/11
MS			**QC Sample #62229**								
			Original 112817001								
Cyanide	57-12-5	<0.21	1.94	mg/kg	97.3	75 - 125					08/03/11
MSD			**QC Sample #62230**								
			Original 112817001						**Paired**	**62229**	
Cyanide	57-12-5	<0.21	1.89	mg/kg	94.9	75 - 125	2.60	20			08/03/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112817

QC Batch 187667
Associated Samples 112817001, 112817002

Test Ammonia(N) by IC (S)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
DUP			**QC Sample #62254**								
			Original 112817001								
Ammonia (N)	NH4-N	<0.073	<0.073	mg/kg			0.00	30		U	08/08/11
MS			**QC Sample #62255**								
			Original 112817001								
Ammonia (N)	NH4-N	<0.073	26.0	mg/kg	103.9	75 - 125					08/08/11
MSD			**QC Sample #62256**								
			Original 112817001						**Paired**	**62255**	
Ammonia (N)	NH4-N	<0.073	26.3	mg/kg	105	75 - 125	1.10	30			08/08/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112817

QC Batch 187669
Associated Samples 112817001, 112817002

Test Anions by Ion Chromatography (Solid)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #62261**							
Fluoride	16984-48-8		<0.036	ug/mL					U	08/08/11
Chloride	16887-00-6		<0.062	ug/mL					U	08/08/11
Nitrite-N	NO2-N		<0.020	ug/mL					U	08/08/11
Bromide	24959-67-9		<0.083	ug/mL					U	08/08/11
Nitrate-N	NO3-N		<0.019	ug/mL					U	08/08/11
Phosphate-P	14265-44-2		<0.050	ug/mL					U	08/08/11
Sulfate	14808-79-8		<0.072	ug/mL					U	08/08/11
LCS			**QC Sample #62262**							
Fluoride	16984-48-8		0.914	ug/mL	92.3	90 - 110				08/08/11
Chloride	16887-00-6		1.82	ug/mL	91.9	90 - 110				08/08/11
Nitrite-N	NO2-N		0.949	ug/mL	97	90 - 110				08/08/11
Bromide	24959-67-9		3.90	ug/mL	99.4	90 - 110				08/08/11
Nitrate-N	NO3-N		0.879	ug/mL	99.3	90 - 110				08/08/11
Phosphate-P	14265-44-2		1.85	ug/mL	96.8	90 - 110				08/08/11
Sulfate	14808-79-8		3.71	ug/mL	94.6	90 - 110				08/08/11
MS			**QC Sample #62263**							
			Original 112817001							
Fluoride	16984-48-8	<0.31	21.5	mg/kg	85	80 - 120				08/08/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112817

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Chloride	16887-00-6	<0.54	45.2	mg/kg	89.5	80 - 120					08/08/11
Nitrite-N	NO2-N	<0.17	23.2	mg/kg	93	80 - 120					08/08/11
Bromide	24959-67-9	<0.72	96.0	mg/kg	96	80 - 120					08/08/11
Nitrate-N	NO3-N	0.386	23.3	mg/kg	103.1	80 - 120					08/08/11
Phosphate-P	14265-44-2	<0.43	44.9	mg/kg	92.1	80 - 120					08/08/11
Sulfate	14808-79-8	<0.62	93.2	mg/kg	93.2	80 - 120					08/08/11
MSD			**QC Sample #62264**								
			Original 112817001						**Paired**	**62263**	
Fluoride	16984-48-8	<0.31	22.2	mg/kg	88	80 - 120	3.50	30			08/08/11
Chloride	16887-00-6	<0.54	46.7	mg/kg	92.4	80 - 120	3.20	30			08/08/11
Nitrite-N	NO2-N	<0.17	24.7	mg/kg	99	80 - 120	6.20	30			08/08/11
Bromide	24959-67-9	<0.72	98.5	mg/kg	98.5	80 - 120	2.60	30			08/08/11
Nitrate-N	NO3-N	0.386	23.4	mg/kg	103.7	80 - 120	0.60	30			08/08/11
Phosphate-P	14265-44-2	<0.43	45.5	mg/kg	93.3	80 - 120	1.30	30			08/08/11
Sulfate	14808-79-8	<0.62	93.7	mg/kg	93.7	80 - 120	0.50	30			08/08/11
DUP			**QC Sample #62265**								
			Original 112817001								
Fluoride	16984-48-8	<0.31	<0.31	mg/kg			0.00	30		U	08/08/11
Chloride	16887-00-6	<0.54	<0.54	mg/kg			14.60	30		U	08/08/11
Nitrite-N	NO2-N	<0.17	<0.17	mg/kg			0.00	30		U	08/08/11
Bromide	24959-67-9	<0.72	<0.72	mg/kg			0.00	30		U	08/08/11
Nitrate-N	NO3-N	0.386	0.336	mg/kg			13.90	30		B	08/08/11
Phosphate-P	14265-44-2	<0.43	<0.43	mg/kg			0.00	30		U	08/08/11
Sulfate	14808-79-8	<0.62	<0.62	mg/kg			34.10	30	*	UX	08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

QC Batch 187681
Associated Samples 112817001, 112817002

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #62306**						
4-Nitrophenol	100-02-7		<200	ug/kg				U	08/08/11
1,4-Dichlorobenzene	106-46-7		<200	ug/kg				U	08/08/11
Phenol	108-95-2		<200	ug/kg				U	08/08/11
1,2,4-Trichlorobenzene	120-82-1		<200	ug/kg				U	08/08/11
2,4-Dinitrotoluene	121-14-2		<200	ug/kg				U	08/08/11
Pyrene	129-00-0		<200	ug/kg				U	08/08/11
4-Chloro-3-methylphenol	59-50-7		<200	ug/kg				U	08/08/11
n-Nitroso-di-n-propylamine	621-64-7		<200	ug/kg				U	08/08/11
Acenaphthene	83-32-9		<200	ug/kg				U	08/08/11
Pentachlorophenol	87-86-5		<200	ug/kg				U	08/08/11
2-Chlorophenol	95-57-8		<200	ug/kg				U	08/08/11
4-Nitroaniline	100-01-6		<200	ug/kg				U	08/08/11
4-Bromophenyl-phenylether	101-55-3		<200	ug/kg				U	08/08/11
2,4-Dimethylphenol	105-67-9		<200	ug/kg				U	08/08/11
4-Chloroaniline	106-47-8		<300	ug/kg				U	08/08/11
Bis(1-Chloro-2-propyl)ether	108-60-1		<200	ug/kg				U	08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Bis-(2-Chloroethyl) ether	111-44-4		<200	ug/kg				U	08/08/11
Bis-(2-Chloroethoxy)methane	111-91-1		<200	ug/kg				U	08/08/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		<200	ug/kg				U	08/08/11
Di-n-octylphthalate	117-84-0		<200	ug/kg				U	08/08/11
Hexachlorobenzene	118-74-1		<200	ug/kg				U	08/08/11
Anthracene	120-12-7		<200	ug/kg				U	08/08/11
2,4-Dichlorophenol	120-83-2		<200	ug/kg				U	08/08/11
Dimethylphthalate	131-11-3		<200	ug/kg				U	08/08/11
Dibenzofuran	132-64-9		<200	ug/kg				U	08/08/11
Benzo(g,h,i)perylene	191-24-2		<200	ug/kg				U	08/08/11
Indeno(1,2,3-cd)pyrene	193-39-5		<200	ug/kg				U	08/08/11
Benzo(b)fluoranthene	205-99-2		<200	ug/kg				U	08/08/11
Fluoranthene	206-44-0		<200	ug/kg				U	08/08/11
Benzo(k)fluoranthene	207-08-9		<200	ug/kg				U	08/08/11
Acenaphthylene	208-96-8		<200	ug/kg				U	08/08/11
Chrysene	218-01-9		<200	ug/kg				U	08/08/11
Benzo(a)pyrene	50-32-8		<200	ug/kg				U	08/08/11
2,4-Dinitrophenol	51-28-5		<200	ug/kg				U	08/08/11
Dibenzo(a,h)anthracene	53-70-3		<200	ug/kg				U	08/08/11
4,6-Dinitro-2-methylphenol	534-52-1		<200	ug/kg				U	08/08/11
1,3-Dichlorobenzene	541-73-1		<200	ug/kg				U	08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Benzo(a)anthracene	56-55-3		<200	ug/kg				U	08/08/11
2,6-Dinitrotoluene	606-20-2		<200	ug/kg				U	08/08/11
4-Chlorophenyl-phenylether	7005-72-3		<200	ug/kg				U	08/08/11
Hexachlorocyclopentadiene	77-47-4		<200	ug/kg				U	08/08/11
Isophorone	78-59-1		<200	ug/kg				U	08/08/11
Diethyl phthalate	84-66-2		380	ug/kg				J	08/08/11
Di-n-butylphthalate	84-74-2		<200	ug/kg				U	08/08/11
Phenanthrene	85-01-8		<200	ug/kg				U	08/08/11
Butylbenzylphthalate	85-68-7		<200	ug/kg				U	08/08/11
n-Nitrosodiphenylamine	86-30-6		<200	ug/kg				U	08/08/11
Fluorene	86-73-7		<200	ug/kg				U	08/08/11
Carbazole	86-74-8		<200	ug/kg				U	08/08/11
Hexachlorobutadiene	87-68-3		<200	ug/kg				U	08/08/11
2-Nitroaniline	88-74-4		<200	ug/kg				U	08/08/11
2-Nitrophenol	88-75-5		<200	ug/kg				U	08/08/11
Naphthalene	91-20-3		<200	ug/kg				U	08/08/11
2-Methylnaphthalene	91-57-6		<200	ug/kg				U	08/08/11
2-Chloronaphthalene	91-58-7		<200	ug/kg				U	08/08/11
3,3-Dichlorobenzidine	91-94-1		<200	ug/kg				U	08/08/11
2-Methylphenol	95-48-7		<200	ug/kg				U	08/08/11
1,2-Dichlorobenzene	95-50-1		<200	ug/kg				U	08/08/11
2,4,5-Trichlorophenol	95-95-4		<200	ug/kg				U	08/08/11
Nitrobenzene	98-95-3		<200	ug/kg				U	08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
3-Nitroaniline	99-09-2		<200	ug/kg					U	08/08/11
3 & 4 Methylphenol, Total	65794-96-9		<200	ug/kg					U	08/08/11
Hexachloroethane	67-72-1		<200	ug/kg					U	08/08/11
2,4,6-Trichlorophenol	88-06-2		<200	ug/kg					U	08/08/11
n-Decane	124-18-5		<200	ug/kg					U	08/08/11
n-Dodecane	112-40-3		<300	ug/kg					U	08/08/11
Benzyl alcohol	100-51-6		<200	ug/kg					U	08/08/11
2-Butoxyethanol	111-76-2		<200	ug/kg					U	08/08/11
Tributyl phosphate	126-73-8		<200	ug/kg					U	08/08/11
2-Naphthylamine	91-59-8		<200	ug/kg					U	08/08/11
Cyclohexanone	108-94-1		<200	ug/kg					U	08/08/11
Pyridine	110-86-1		<200	ug/kg					U	08/08/11
1,2,4-Trimethylbenzene	95-63-6		<200	ug/kg					U	08/08/11
Benzoic Acid	65-85-0		<200	ug/kg					U	08/08/11
LCS			**QC Sample #62307**							
4-Nitrophenol	100-02-7		5200	ug/kg	86.8	49 - 128				08/08/11
1,4-Dichlorobenzene	106-46-7		3800	ug/kg	96	71 - 122				08/08/11
Phenol	108-95-2		5700	ug/kg	94.2	72 - 123				08/08/11
1,2,4-Trichlorobenzene	120-82-1		5400	ug/kg	90.1	73 - 127				08/08/11
2,4-Dinitrotoluene	121-14-2		5500	ug/kg	91.4	68 - 121				08/08/11
Pyrene	129-00-0		5600	ug/kg	93.1	75 - 137				08/08/11
4-Chloro-3-methylphenol	59-50-7		5700	ug/kg	94.9	69 - 127				08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Nitroso-di-n-propylamine	621-64-7		5600	ug/kg	93	73 - 125				08/08/11
Acenaphthene	83-32-9		5700	ug/kg	94.9	73 - 122				08/08/11
Pentachlorophenol	87-86-5		4300	ug/kg	70.9	42 - 132				08/08/11
2-Chlorophenol	95-57-8		5700	ug/kg	94.4	71 - 123				08/08/11
2-Butoxyethanol	111-76-2		5500	ug/kg	92	50 - 140				08/08/11
Benzyl alcohol	100-51-6		5600	ug/kg	94	50 - 140				08/08/11
2-Methylphenol	95-48-7		5700	ug/kg	94.5	50 - 140				08/08/11
Hexachloroethane	67-72-1		5100	ug/kg	85.4	50 - 140				08/08/11
2-Nitrophenol	88-75-5		5200	ug/kg	86	50 - 140				08/08/11
2,4-Dimethylphenol	105-67-9		6000	ug/kg	99.7	50 - 140				08/08/11
2,4-Dichlorophenol	120-83-2		5600	ug/kg	92.8	50 - 140				08/08/11
n-Dodecane	112-40-3		5800	ug/kg	96.9	50 - 140				08/08/11
Naphthalene	91-20-3		5600	ug/kg	92.6	50 - 140				08/08/11
2-Nitroaniline	88-74-4		5500	ug/kg	92.4	50 - 140				08/08/11
Dibenzofuran	132-64-9		5800	ug/kg	96.1	50 - 140				08/08/11
Fluorene	86-73-7		5900	ug/kg	97.7	50 - 140				08/08/11
Tributyl phosphate	126-73-8		5400	ug/kg	89.8	50 - 140				08/08/11
Hexachlorobenzene	118-74-1		5700	ug/kg	95.1	50 - 140				08/08/11
Anthracene	120-12-7		5700	ug/kg	95.1	50 - 140				08/08/11
Carbazole	86-74-8		5800	ug/kg	76	50 - 140				08/08/11
Di-n-butylphthalate	84-74-2		5700	ug/kg	94.7	50 - 140				08/08/11
3,3-Dichlorobenzidine	91-94-1		5200	ug/kg	86.9	50 - 140				08/08/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		5800	ug/kg	96.5	50 - 140				08/08/11
Di-n-octylphthalate	117-84-0		5200	ug/kg	87	50 - 140				08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Benzo(a)pyrene	50-32-8		5600	ug/kg	93.2	50 - 140				08/08/11
Bis(1-Chloro-2-propyl)ether	108-60-1		5600	ug/kg	92.8	50 - 140				08/08/11
4-Chloroaniline	106-47-8		5300	ug/kg	70.3	50 - 140				08/08/11
MS			**QC Sample #62308**							
			Original 112817001							
4-Nitrophenol	100-02-7	<200	21000	ug/kg	83.8	53 - 130				08/08/11
1,4-Dichlorobenzene	106-46-7	<200	15000	ug/kg	85.9	75 - 117				08/08/11
Phenol	108-95-2	<200	22000	ug/kg	85.5	76 - 123				08/08/11
1,2,4-Trichlorobenzene	120-82-1	<200	21000	ug/kg	81.2	76 - 125				08/08/11
2,4-Dinitrotoluene	121-14-2	<200	21000	ug/kg	81	73 - 120				08/08/11
Pyrene	129-00-0	<200	21000	ug/kg	82.1	78 - 134				08/08/11
4-Chloro-3-methylphenol	59-50-7	<200	22000	ug/kg	87.3	71 - 129				08/08/11
n-Nitroso-di-n-propylamine	621-64-7	<200	22000	ug/kg	85.9	75 - 124				08/08/11
Acenaphthene	83-32-9	<200	22000	ug/kg	86	75 - 121				08/08/11
Pentachlorophenol	87-86-5	<200	18000	ug/kg	68.9	39 - 140				08/08/11
2-Chlorophenol	95-57-8	<200	22000	ug/kg	85.2	75 - 123				08/08/11
2-Butoxyethanol	111-76-2	<200	21000	ug/kg	83.2	50 - 140				08/08/11
Benzyl alcohol	100-51-6	<200	22000	ug/kg	86.5	50 - 140				08/08/11
2-Methylphenol	95-48-7	<200	22000	ug/kg	87.3	50 - 140				08/08/11
Hexachloroethane	67-72-1	<200	20000	ug/kg	77.2	50 - 140				08/08/11
2-Nitrophenol	88-75-5	<200	20000	ug/kg	77.7	50 - 140				08/08/11
2,4-Dimethylphenol	105-67-9	<200	23000	ug/kg	91.3	50 - 140				08/08/11
2,4-Dichlorophenol	120-83-2	<200	21000	ug/kg	83.5	50 - 140				08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Dodecane	112-40-3	<300	22000	ug/kg	88.1	50 - 140				08/08/11
Naphthalene	91-20-3	<200	21000	ug/kg	84.4	50 - 140				08/08/11
2-Nitroaniline	88-74-4	<200	21000	ug/kg	84.1	50 - 140				08/08/11
Dibenzofuran	132-64-9	<200	22000	ug/kg	87.3	50 - 140				08/08/11
Fluorene	86-73-7	<200	23000	ug/kg	88.9	50 - 140				08/08/11
Tributyl phosphate	126-73-8	<200	20000	ug/kg	80.2	50 - 140				08/08/11
Hexachlorobenzene	118-74-1	<200	22000	ug/kg	85.2	50 - 140				08/08/11
Anthracene	120-12-7	<200	22000	ug/kg	87.1	50 - 140				08/08/11
Carbazole	86-74-8	<200	23000	ug/kg	70.8	50 - 140				08/08/11
Di-n-butylphthalate	84-74-2	<200	22000	ug/kg	84.7	50 - 140				08/08/11
3,3-Dichlorobenzidine	91-94-1	<200	20000	ug/kg	77.3	50 - 140				08/08/11
Bis-(2-Ethylhexyl)phthalate	117-81-7	<200	22000	ug/kg	87.2	50 - 140				08/08/11
Di-n-octylphthalate	117-84-0	<200	23000	ug/kg	91.8	50 - 140				08/08/11
Benzo(a)pyrene	50-32-8	<200	22000	ug/kg	85.8	50 - 140				08/08/11
Bis(1-Chloro-2-propyl)ether	108-60-1	<200	22000	ug/kg	84.6	50 - 140				08/08/11
4-Chloroaniline	106-47-8	<300	21000	ug/kg	64.2	50 - 140				08/08/11
MSD			**QC Sample #62309**							
			Original 112817001						**Paired 62308**	
4-Nitrophenol	100-02-7	<200	28000	ug/kg	95.1	53 - 130	26.10	30		08/08/11
1,4-Dichlorobenzene	106-46-7	<200	18000	ug/kg	92.8	75 - 117	21.40	30		08/08/11
Phenol	108-95-2	<200	27000	ug/kg	92.9	76 - 123	21.90	30		08/08/11
1,2,4-Trichlorobenzene	120-82-1	<200	26000	ug/kg	87.3	76 - 125	20.90	30		08/08/11
2,4-Dinitrotoluene	121-14-2	<200	26000	ug/kg	90.2	73 - 120	24.30	30		08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Pyrene	129-00-0	<200	27000	ug/kg	92.2	78 - 134	25.10	30			08/08/11
4-Chloro-3-methylphenol	59-50-7	<200	28000	ug/kg	95.4	71 - 129	22.50	30			08/08/11
n-Nitroso-di-n-propylamine	621-64-7	<200	27000	ug/kg	91	75 - 124	19.40	30			08/08/11
Acenaphthene	83-32-9	<200	28000	ug/kg	94.3	75 - 121	22.80	30			08/08/11
Pentachlorophenol	87-86-5	<200	25000	ug/kg	84.4	39 - 140	33.70	30	*	X	08/08/11
2-Chlorophenol	95-57-8	<200	27000	ug/kg	92.6	75 - 123	22.00	30			08/08/11
2-Butoxyethanol	111-76-2	<200	26000	ug/kg	89.3	50 - 140	20.70	30			08/08/11
Benzyl alcohol	100-51-6	<200	27000	ug/kg	92.8	50 - 140	20.70	30			08/08/11
2-Methylphenol	95-48-7	<200	27000	ug/kg	93.8	50 - 140	20.90	30			08/08/11
Hexachloroethane	67-72-1	<200	24000	ug/kg	82.3	50 - 140	20.00	30			08/08/11
2-Nitrophenol	88-75-5	<200	26000	ug/kg	88.3	50 - 140	26.30	30			08/08/11
2,4-Dimethylphenol	105-67-9	<200	29000	ug/kg	98.7	50 - 140	21.40	30			08/08/11
2,4-Dichlorophenol	120-83-2	<200	27000	ug/kg	93.5	50 - 140	24.90	30			08/08/11
n-Dodecane	112-40-3	<300	28000	ug/kg	95.3	50 - 140	21.50	30			08/08/11
Naphthalene	91-20-3	<200	27000	ug/kg	91.3	50 - 140	21.50	30			08/08/11
2-Nitroaniline	88-74-4	<200	27000	ug/kg	92.7	50 - 140	23.40	30			08/08/11
Dibenzofuran	132-64-9	<200	28000	ug/kg	96.4	50 - 140	23.50	30			08/08/11
Fluorene	86-73-7	<200	29000	ug/kg	98	50 - 140	23.40	30			08/08/11
Tributyl phosphate	126-73-8	<200	26000	ug/kg	90.3	50 - 140	25.50	30			08/08/11
Hexachlorobenzene	118-74-1	<200	28000	ug/kg	94.8	50 - 140	24.30	30			08/08/11
Anthracene	120-12-7	<200	28000	ug/kg	95.4	50 - 140	22.70	30			08/08/11
Carbazole	86-74-8	<200	29000	ug/kg	77.4	50 - 140	22.60	30			08/08/11
Di-n-butylphthalate	84-74-2	<200	28000	ug/kg	95.3	50 - 140	25.40	30			08/08/11
3,3-Dichlorobenzidine	91-94-1	<200	24000	ug/kg	83.6	50 - 140	21.60	30			08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Bis-(2-Ethylhexyl)phthalate	117-81-7	<200	29000	ug/kg	97.6	50 - 140	24.90	30		08/08/11
Di-n-octylphthalate	117-84-0	<200	30000	ug/kg	102.5	50 - 140	24.60	30		08/08/11
Benzo(a)pyrene	50-32-8	<200	28000	ug/kg	95.4	50 - 140	24.20	30		08/08/11
Bis(1-Chloro-2-propyl)ether	108-60-1	<200	26000	ug/kg	90.2	50 - 140	20.10	30		08/08/11
4-Chloroaniline	106-47-8	<300	26000	ug/kg	69.4	50 - 140	21.40	30		08/08/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112817

QC Batch 187663
Associated Samples 112817001, 112817002

Test Technetium-99 by ICP MS

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #62244**							
Technetium-99	14133-76-7		<0.0010	ug/kg					U	08/08/11
LCS			**QC Sample #62245**							
Technetium-99	14133-76-7		0.040	ug/kg	91.4	85 - 115				08/08/11
DUP			**QC Sample #62653**							
			Original 112817001							
Technetium-99	14133-76-7	<1.1E-3	<1.0E-4	ug/kg			-35.20		U	08/08/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112817

QC Batch 187667
Associated Samples 112817001, 112817002

Test Ammonia(N) by IC (S)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #62252**							
Ammonia (N)	NH4-N		<1.4E-3	mg/L					U	08/08/11
LCS			**QC Sample #62253**							
Ammonia (N)	NH4-N		0.199	mg/L	99.4	90 - 110				08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

QC Batch 187681
Associated Samples 112817001, 112817002

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #112817001**							
2-Fluorophenol	367-12-4				86.4	44 - 135				08/08/11
Phenol-d5	4165-62-2				84.6	41 - 136				08/08/11
Nitrobenzene-d5	4165-60-0				85.2	53 - 129				08/08/11
2-Fluorobiphenyl	321-60-8				86.8	36 - 141				08/08/11
2,4,6-Tribromophenol	118-79-6				75.1	17 - 142				08/08/11
Terphenyl-d14	98904-43-9				97	61 - 142				08/08/11
SAMPLE			**Sample #112817002**							
2-Fluorophenol	367-12-4				112.8	44 - 135				08/08/11
Phenol-d5	4165-62-2				113.8	41 - 136				08/08/11
Nitrobenzene-d5	4165-60-0				112.6	53 - 129				08/08/11
2-Fluorobiphenyl	321-60-8				116.1	36 - 141				08/08/11
2,4,6-Tribromophenol	118-79-6				104.9	17 - 142				08/08/11
Terphenyl-d14	98904-43-9				125.3	61 - 142				08/08/11
BLANK			**QC Sample #62306**							
2-Fluorophenol	367-12-4				109.9	44 - 135				08/08/11
Phenol-d5	4165-62-2				109.2	41 - 136				08/08/11
Nitrobenzene-d5	4165-60-0				108.3	53 - 129				08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2-Fluorobiphenyl	321-60-8				108.7	36 - 141				08/08/11
2,4,6-Tribromophenol	118-79-6				87.9	17 - 142				08/08/11
Terphenyl-d14	98904-43-9				112.3	61 - 142				08/08/11
LCS			**QC Sample #62307**							
2-Fluorophenol	367-12-4				105.7	19 - 140				08/08/11
Phenol-d5	4165-62-2				105.3	32 - 134				08/08/11
Nitrobenzene-d5	4165-60-0				105.3	60 - 122				08/08/11
2-Fluorobiphenyl	321-60-8				105.8	57 - 122				08/08/11
2,4,6-Tribromophenol	118-79-6				98.4	34 - 139				08/08/11
Terphenyl-d14	98904-43-9				105.2	49 - 147				08/08/11
MS			**QC Sample #62308**							
			Original 112817001							
2-Fluorophenol	367-12-4				93.4	44 - 135				08/08/11
Phenol-d5	4165-62-2				95	41 - 136				08/08/11
Nitrobenzene-d5	4165-60-0				93.6	53 - 129				08/08/11
2-Fluorobiphenyl	321-60-8				95.1	36 - 141				08/08/11
2,4,6-Tribromophenol	118-79-6				85	17 - 142				08/08/11
Terphenyl-d14	98904-43-9				90.2	61 - 142				08/08/11
MSD			**QC Sample #62309**							
			Original 112817001					**Paired**	**62308**	
2-Fluorophenol	367-12-4				102.4	44 - 135	n/a			08/08/11
Phenol-d5	4165-62-2				102.8	41 - 136	n/a			08/08/11
Nitrobenzene-d5	4165-60-0				103.7	53 - 129	n/a			08/08/11
2-Fluorobiphenyl	321-60-8				106	36 - 141	n/a			08/08/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112817

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2,4,6-Tribromophenol	118-79-6				97.3	17 - 142	n/a			08/08/11
Terphenyl-d14	98904-43-9				102.8	61 - 142	n/a			08/08/11

Analytical Comment Report

Attention: Steve McKinney

Group # WSCF112817

Quality Control Comments

Department Inorganic

62265 B2FPF1(112817001DUP)

Analyte Sulfate - Anions by Ion Chromatography (Solid)

[1] Duplicate is flagged for RPD out-of-limits. RPD does not apply to samples concentrations below the calibration range. RPD is calculated on measured values and not applicable for a result below the RDL.

Analytical Comment Report

Attention: Steve McKinney

Group # WSCF112817

Quality Control Comments

Department Organic, Semivolatiles

62309 B2FPF1(112817001MSD)

Analyte Pentachlorophenol - SW-846 8270D Semivolatiles

[1] Matrix Spike RPD outside established laboratory limits No flags assigned.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 10 pages
Including cover page

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory
PO Box 650 S3-30
Richland, WA 99352

ATTN: Melissa Garrard

Customer Code: WRPS
PO #:
Work Order #: 112817
Profile #: VADOSE 08-01-11 B
Proj. Mgr.:
Phone:

The following samples were received from you on 8/1/2011 2:00:00 PM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
		Tests scheduled		
112817001	B2FPF1	SOIL	7/21/2011 08:45	8/1/2011 14:00
		8270SV-S; CN-S; COND-S; DRY-WEIGHT; IC-S; NH4IC-S; PH-S; TC99-MS-S		
112817002	B2FPF2	SOIL	7/21/2011 08:45	8/1/2011 14:00
		8270SV-S; CN-S; COND-S; DRY-WEIGHT; IC-S; NH4IC-S; PH-S; TC99-MS-S		

Test Acronym Description

Test Acronym	Description
8270SV-S	Semivolatiles by 8270D (S)
CN-S	Cyanide (Spectroscopy) (S)
COND-S	Conductivity (S)
DRY-WEIGHT	Dry Weight as Pct Moisture
IC-S	Anions by IC (S)
NH4IC-S	Ammonia(N) by IC (S)
PH-S	pH (S)
TC99-MS-S	TECHNICIUM 99 BY ICP-MS

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No.
N/A 112817		20111031
		Page 1 of 1

Collector: Campbell/Chase	Contact/Requestor: Jo Marie Johnson/Steve McKinney	Telephone No. 372-9474 MSIN T6-03 FAX
SAF No.: N/A	Sample Origin: C Farm Vadose	Purchase Order/Charge Code
Project Title: C Farm CHA 2011-1	Logbook/ Work Package No.: N/A	Ice Chest No. Temp.
Shipped To (Lab): WSCF	Method of Shipment	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: per SOW	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
1	B2FPF1		7-21-11	0845	~~2~~ 1 LITER 2-500 mL glass	see List 1 (Lab Sample ID S11V005448)	<6 C
2	B2FPF2		7-21-11	0845	~~2~~ 1 LITER 2-500 mL glass	see List 1 (Lab Sample ID S11V005464)	<6 C
						List 1: CN-EDTA, pH-solid, Tc-99 (1:1 water digest), conductivity, SVOA,	
						IC anions/small organic acids, ammonia, ~~CHA screen, total activity~~.	
						GEA + TAB LOGGED INTO	
						GROUP 112816	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No	SPECIAL INSTRUCTIONS	Hold Time
	Send results to Steve McKinney (Steve G McKinney@rl.gov) and Mellissa Carrard (see SOW for e-mail address) Contract 36612, rel. 9	7 days

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S = Soil		DL = Drum Liquids	
SE = Sediment		T = Tissue	
SO = Solid		WI = Wipe	
SL = Sludge		L = Liquid	
W = Water		V = Vegetation	
O = Oil		VA = Vapor	
A = Air		X = Other	
DS = Drum Solids			

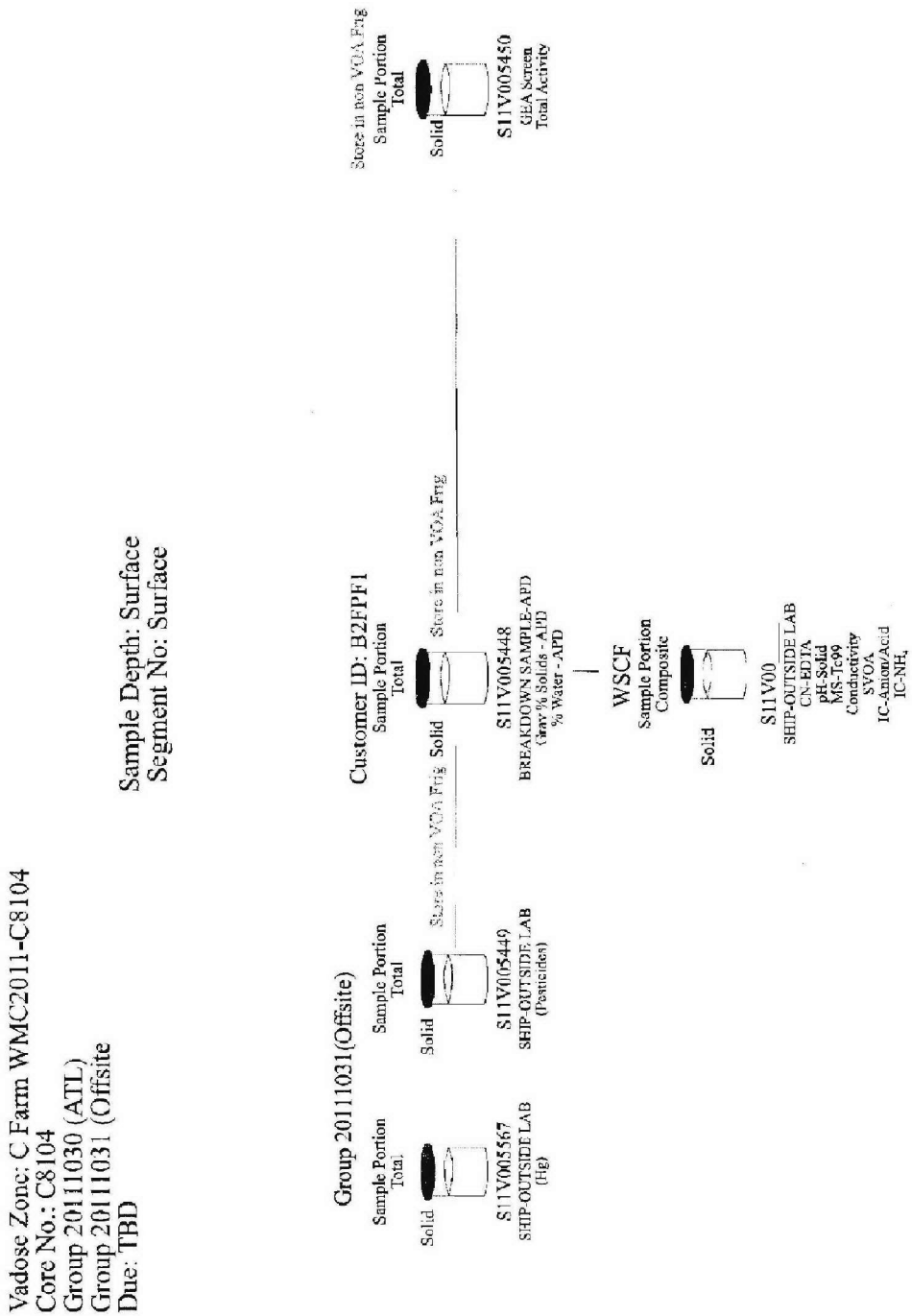
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

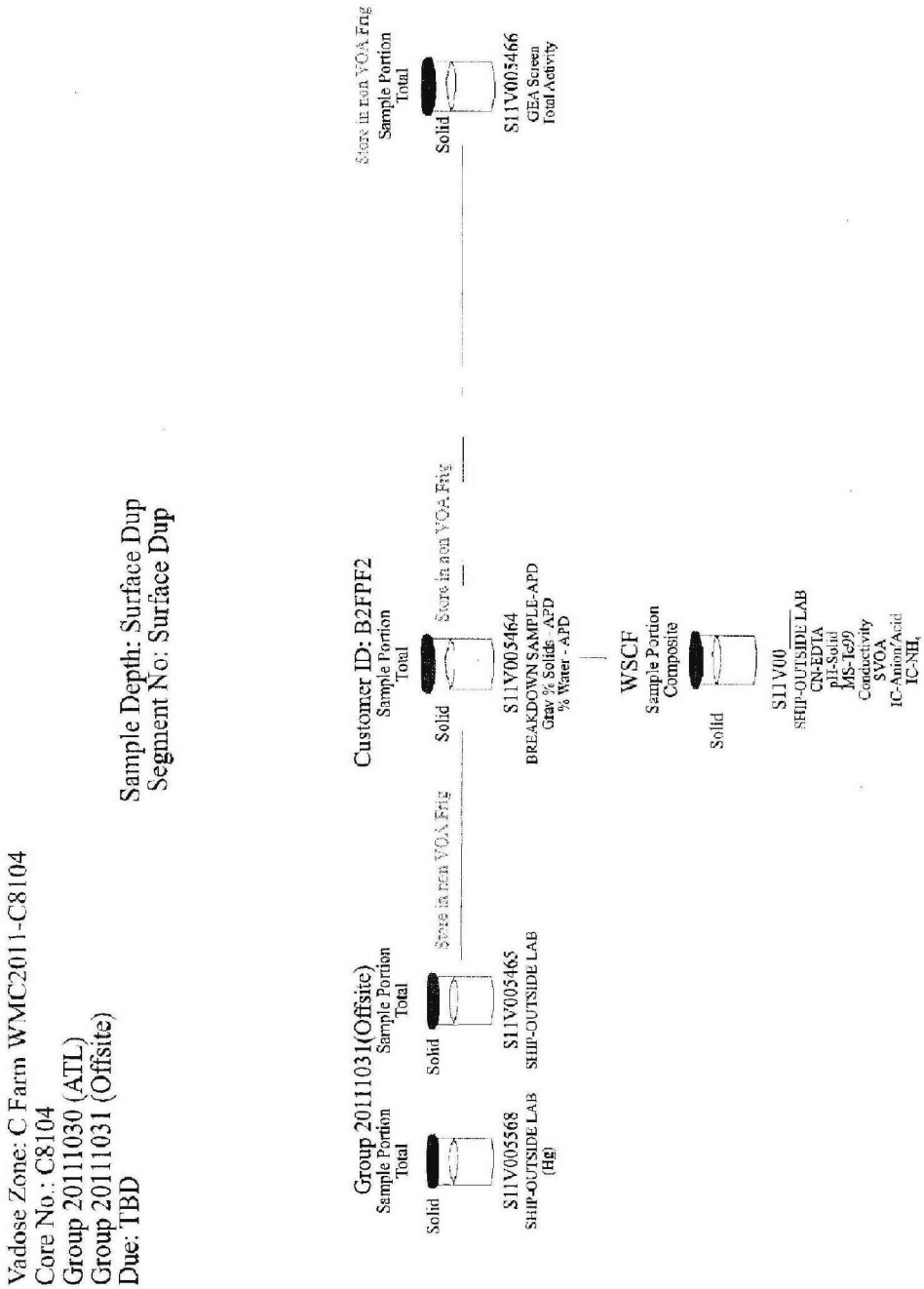
Sample Receipt

Chain of Custody



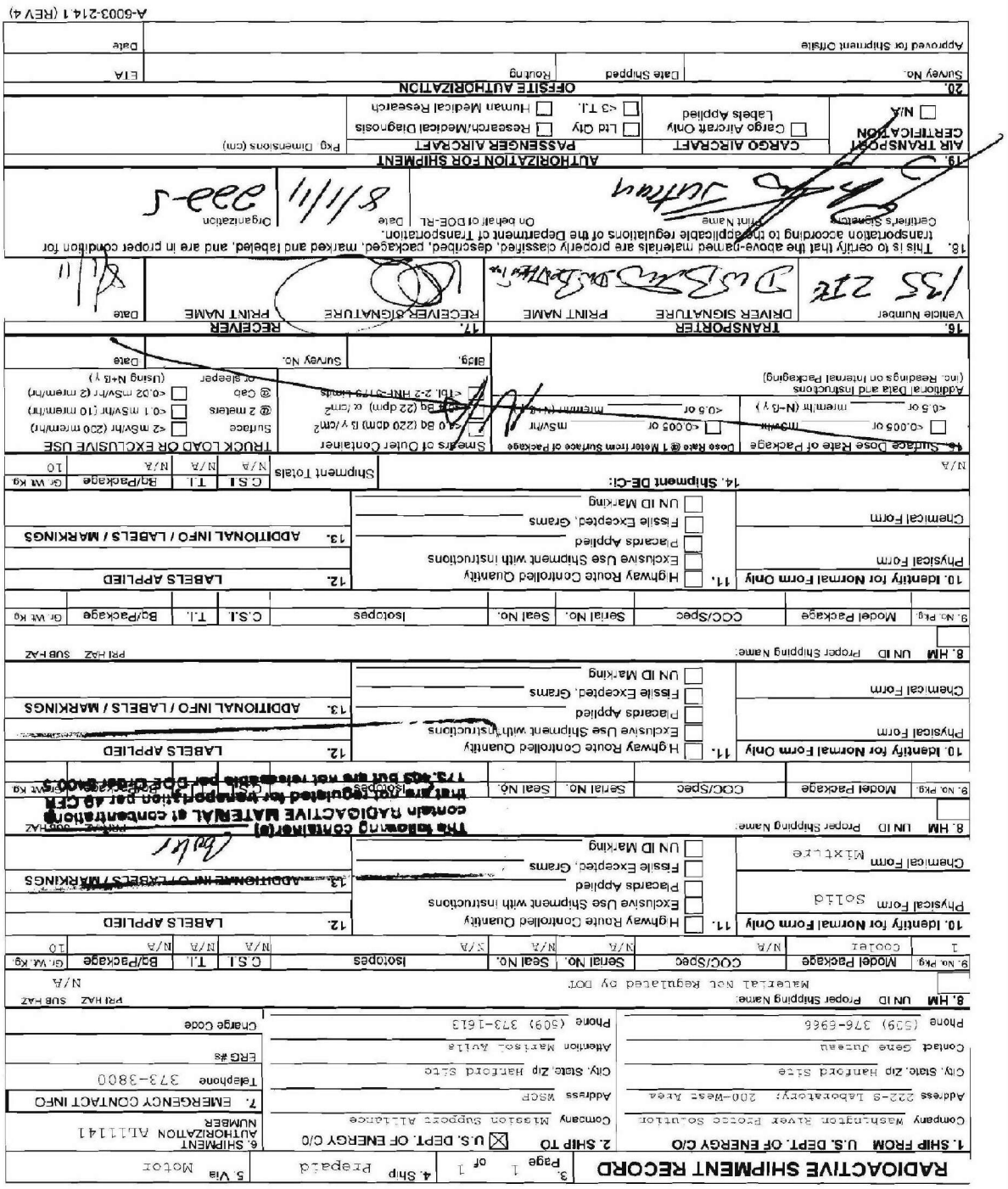
Sample Receipt

Chain of Custody



Sample Receipt

Chain of Custody



RADIOACTIVE SHIPMENT RECORD

1. SHIP FROM U.S. DEPT. OF ENERGY C/O
Company Washington River Protec Solution
Address 222-S Laboratory; 200-West Area
City, State, Zip Hanford Site
Contact Gene Jusaw
Phone (509) 376-6966

2. SHIP TO ☒ U.S. DEPT. OF ENERGY C/O
Company Mission Support Alliance
Address MSCP
City, State, Zip Hanford Site
Attention Martson Avila
Phone (509) 373-1613

3. Page 1 of 1
4. Ship Prepaid
5. Via Motor
6. SHIPMENT AUTHORIZATION NUMBER ALI1141
7. EMERGENCY CONTACT INFO
Telephone 373-3800
ERG #s
Charge Code

8. HM UN ID Proper Shipping Name: Material Not Regulated by DOT — PRI HAZ — SUB HAZ — N/A

9. No. Pkg	Model Package	COC/Spec	Serial No.	Seal No.	Isotopes	C.S.I.	T.I.	Bq/Package	Gr. Wt. Kg
1	cooler	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10

10. Identify for Normal Form Only — 11. ☐ Highway Route Controlled Quantity; ☐ Exclusive Use Shipment with Instructions; ☐ Placards Applied; ☐ Fissile Excepted, Grams; ☐ UN ID Marking
Physical Form solid
Chemical Form Mixture
12. LABELS APPLIED
13. ADDITIONAL INFO / LABELS / MARKINGS

8. HM UN ID Proper Shipping Name: — PRI HAZ — SUB HAZ
9. No. Pkg | Model Package | COC/Spec | Serial No. | Seal No. | Isotopes | C.S.I. | T.I. | Bq/Package | Gr. Wt. Kg

10. Identify for Normal Form Only — 11. ☐ Highway Route Controlled Quantity; ☐ Exclusive Use Shipment with Instructions; ☐ Placards Applied; ☐ Fissile Excepted, Grams; ☐ UN ID Marking
Physical Form
Chemical Form
12. LABELS APPLIED
13. ADDITIONAL INFO / LABELS / MARKINGS

8. HM UN ID Proper Shipping Name: — PRI HAZ — SUB HAZ
9. No. Pkg | Model Package | COC/Spec | Serial No. | Seal No. | Isotopes | C.S.I. | T.I. | Bq/Package | Gr. Wt. Kg

10. Identify for Normal Form Only — 11. ☐ Highway Route Controlled Quantity; ☐ Exclusive Use Shipment with Instructions; ☐ Placards Applied; ☐ Fissile Excepted, Grams; ☐ UN ID Marking
Physical Form
Chemical Form
12. LABELS APPLIED
13. ADDITIONAL INFO / LABELS / MARKINGS

14. Shipment DE-Ci: N/A

Shipment Totals	C.S.I.	T.I.	Bq/Package	Gr. Wt kg
	N/A	N/A	N/A	10

15. Surface Dose Rate of Package — Dose Rate @ 1 Meter from Surface of Package — Smears of Outer Container
☐ <0.005 or ☐ <0.005 or ☐ <4.0 Bq (220 dpm) α /cm²
☐ <0.5 or ☐ <0.5 or ☐ <40 Bq (22 dpm) α /cm²
Maximum (N+β,γ) mSv/hr
Additional Data and Instructions (inc. Readings on Internal Packaging)

TRUCK LOAD OR EXCLUSIVE USE
Surface ☐ <2 mSv/hr (200 mrem/hr)
@ 2 meters ☐ <0.1 mSv/hr (10 mrem/hr)
@ Cab ☐ <0.02 mSv/hr (2 mrem/hr)
or Sleeper (Using N+β,γ)
☐ Tbl. 2-2 HNF-5173 9 Limits

16. TRANSPORTER — 17. RECEIVER

Vehicle Number	DRIVER SIGNATURE	PRINT NAME	RECEIVER SIGNATURE	PRINT NAME	Date
135 212					

18. This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
Carrier's Signature — Print Name — On behalf of DOE-RL — Date — Organization
8/11/11 — 233-5

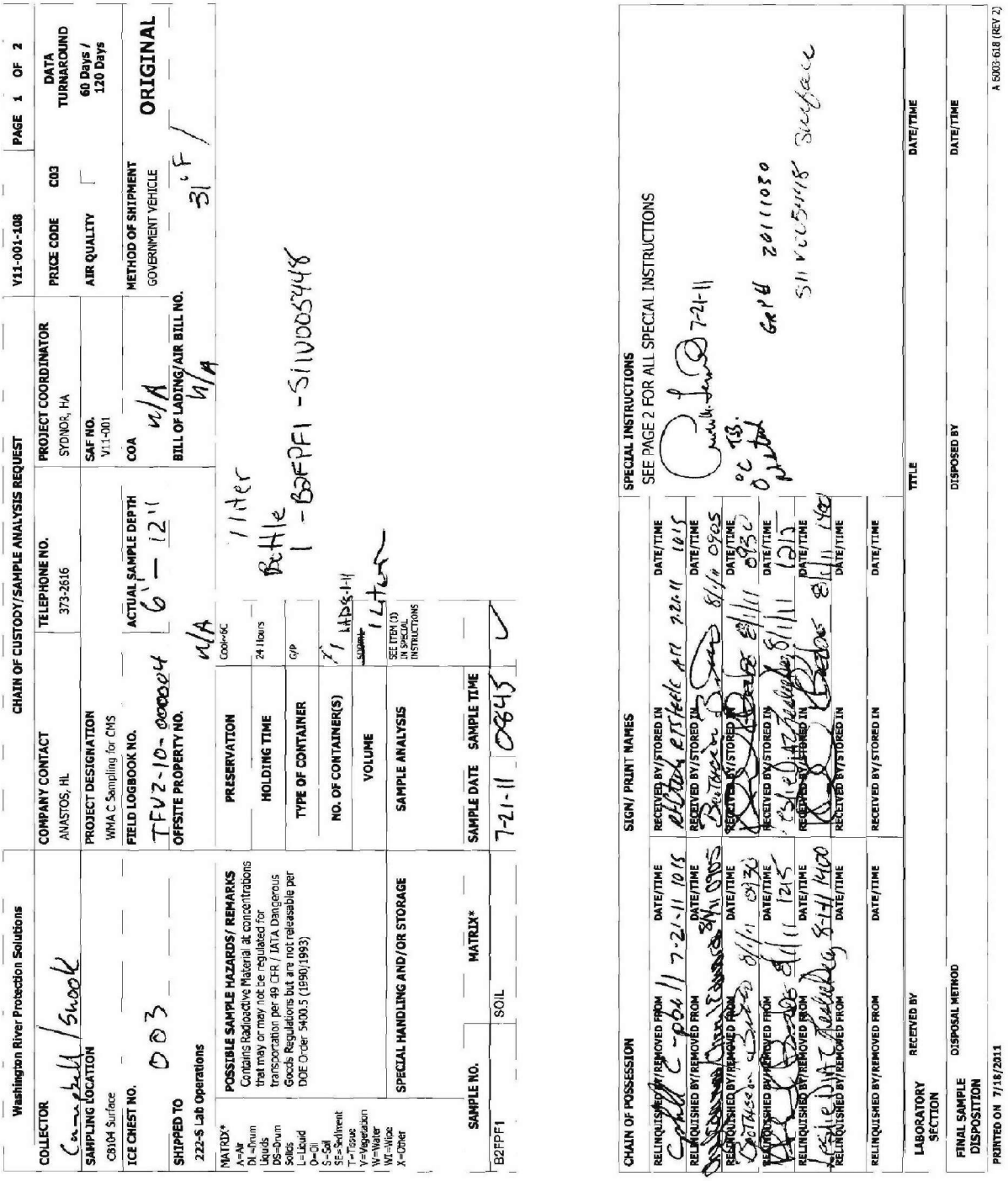
19. AUTHORIZATION FOR SHIPMENT
AIR TRANSPORT CERTIFICATION: ☐ N/A
CARGO AIRCRAFT: ☐ Cargo Aircraft Only; Labels Applied
PASSENGER AIRCRAFT: ☐ Ltd Qty; ☐ Research/Medical Diagnosis; ☐ <3 T.I. ☐ Human Medical Research
Pkg Dimensions (cm)

20. OFFSITE AUTHORIZATION
Survey No. — Date Shipped — Routing — ETA
Approved for Shipment Offsite — Date

A-6003-214.1 (REV 4)

Sample Receipt

Chain of Custody



Washington River Protection Solutions — CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST — V11-001-108 — PAGE 1 OF 2

COLLECTOR: Campbell / Snook
COMPANY CONTACT: ANASTOS, HL
TELEPHONE NO.: 373-2616
PROJECT COORDINATOR: SYDNOR, HA
PRICE CODE: C03
DATA TURNAROUND: 60 Days / 120 Days
SAMPLING LOCATION: C8104 Surface
PROJECT DESIGNATION: WMA C Sampling for CMS
SAF NO.: V11-001
AIR QUALITY: ☐
ICE CHEST NO.: 003
FIELD LOGBOOK NO.: TFV2-10-00004
ACTUAL SAMPLE DEPTH: 6' – 12'
COA: N/A
METHOD OF SHIPMENT: GOVERNMENT VEHICLE
ORIGINAL
SHIPPED TO: 222-S Lab Operations
OFFSITE PROPERTY NO.: N/A
BILL OF LADING/AIR BILL NO.: N/A
31 F /

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or 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: Code=4C — N/A
HOLDING TIME: 24 Hours — 14 days
TYPE OF CONTAINER: G/P — Bottle
NO. OF CONTAINER(S): 2 / 1 — 1 - B2FPF1 - S1V0054948
VOLUME: 500ML — 1 Liter
SAMPLE ANALYSIS: SEE ITEM (3) IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPF1	SOIL	7-21-11	0845	✓

CHAIN OF POSSESSION — SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Campbell	7-21-11 1015	Leslie Anastos	7-21-11 1015
Leslie Anastos	7-21-11 1215	Leslie Anastos	7-21-11 1215
Leslie Anastos	7-21-11 1400	Leslie Anastos	7-21-11 1400

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

Gamma 20111050
S1V0054948 Bicycle

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION — DISPOSAL METHOD — DISPOSED BY — DATE/TIME

PRINTED ON 7/18/2011

A 6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-108	PAGE 2 OF 2
COLLECTOR Campbell / Snook	COMPANY CONTACT ANASTOS, HL	TELEPHONE NO. 373-2616	PROJECT COORDINATOR SYDNOR, HA	PRICE CODE C03	DATA TURNAROUND
SAMPLING LOCATION C8104 Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V11-001	AIR QUALITY —	60 Days / 120 Days
ICE CHEST NO. 003	FIELD LOGBOOK NO. TFV2-10-000004	ACTUAL SAMPLE DEPTH 6" — 12"	COA n/a	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. n/a		

SPECIAL INSTRUCTIONS

**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
This is a retake of sample from this location.
(1) pH (Soil) - 9045; ICPMS Tc-99_WE(TF); Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pyrene, Pyridine, Total cresols, Tributyl phosphate}; 6010_Metals_ICP {Aluminum, Barium, Beryllium, Bismuth, Boron, Calcium, Cerium, Chromium, Cobalt, Copper, Europium, Iron, Lanthanum, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Nickel, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Silicon, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thorium, Tin, Titanium, Tungsten, Vanadium, Yttrium, Zinc, Zirconium}; 6020_METALS_ICPMS (TF) {Antimony, Arsenic, Cadmium, Lead, Selenium, Silver, Thallium}; Mercury - 7471 - (CV) (TF); IC Anions - 9056; 300.7_AMMONIUM (TF); Total Cyanide - 9014 (TF); GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Thorium-228, Thorium-234}; Americium-241 (TF); I129_SEP_GEA (TF); C-14; CURIUM {Curium-242, Curium-243/244}; H3 - TRITIUM; Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 – Total Sr; Actinides ICPMS (TF) {Neptunium-237, Thorium-230, Thorium-232, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238}; RADISO_ICPMS (TF) {Technetium-99, Tin-126}; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF); PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};

PRINTED ON 7/18/2011 A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-109	PAGE 1 OF 2
COLLECTOR: Campbell / Snook	COMPANY CONTACT: ANASTOS, HL	TELEPHONE NO.: 373-2616	PROJECT COORDINATOR: SYDNOR, HA	PRICE CODE: C03	DATA TURNAROUND: 60 Days / 120 Days
SAMPLING LOCATION: C8104 Surface Dup	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V11-001	AIR QUALITY ☐	
ICE CHEST NO.: 003	FIELD LOGBOOK NO.: TFU2-10-000004	ACTUAL SAMPLE DEPTH: 6" - 12"	COA: n/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	ORIGINAL
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~6C
		HOLDING TIME	24 Hours
		TYPE OF CONTAINER	G/P
		NO. OF CONTAINER(S)	1
		VOLUME	~~500mL~~ Liter (LA 8-1-11)
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

Bottle
1 - B2FPF2 - S11V005464

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2FPF2	SOIL	7-21-11	0845	✓

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: C. Campbell	7-21-11 1015	RTSteele	7-21-11 1015
RELINQUISHED BY/REMOVED FROM: [signature]	8/1/11 0905	Bettheder	8/1/11 0905
RELINQUISHED BY/REMOVED FROM: Bettheder	8/1/11 0930	[signature] Oakes	8/1/11 0930
RELINQUISHED BY/REMOVED FROM: [signature] Oakes	8/1/11 1215	Leslie DIAZ	8-1-11 1215
RELINQUISHED BY/REMOVED FROM: Leslie DIAZ	8/1/11 1400	[signature]	8/1/11 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

TB 0°C Metal

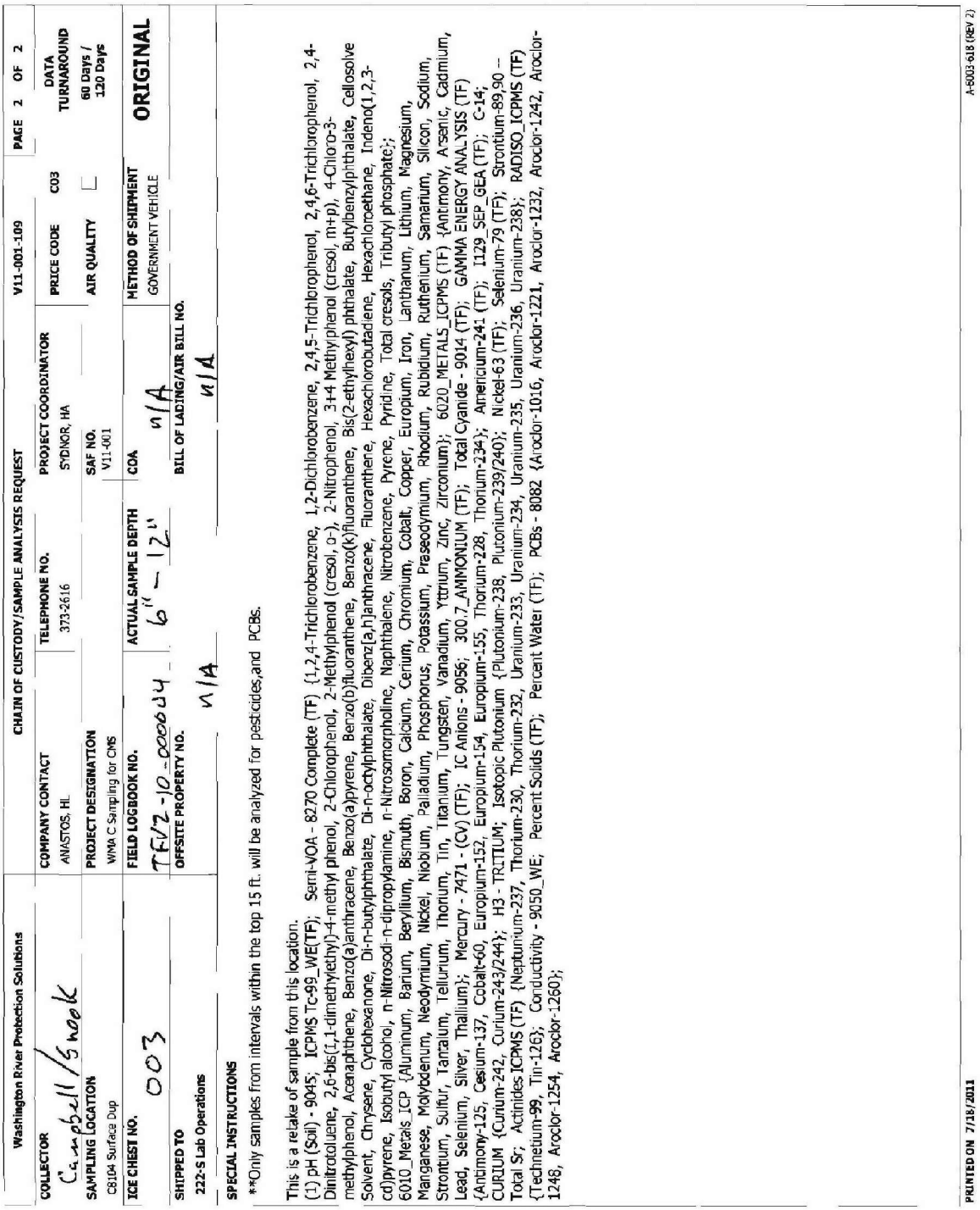
SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
[signature] 7-21-11
GRP# 20111030
S11V005464 - Surface Dup

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

PRINTED ON 7/18/2011 A-6003-618 (REV 2)

Sample Receipt

Chain of Custody



Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V11-001-109

PAGE 2 OF 2

COLLECTOR: Campbell/Shook

COMPANY CONTACT: ANASTOS, HL

TELEPHONE NO.: 373-2616

PROJECT COORDINATOR: SYDNOR, HA

PRICE CODE: 03

DATA TURNAROUND: 60 Days / 120 Days

SAMPLING LOCATION: C8104 Surface Dup

PROJECT DESIGNATION: WMA C Sampling for CMS

SAF NO.: V11-001

AIR QUALITY:

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

ORIGINAL

ICE CHEST NO.: 003

FIELD LOGBOOK NO.: TFIZ-10-00004

ACTUAL SAMPLE DEPTH: 6" - 12"

COA: N/A

SHIPPED TO: 222-S Lab Operations

OFFSITE PROPERTY NO.: N/A

BILL OF LADING/AIR BILL NO.: N/A

SPECIAL INSTRUCTIONS

**Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.

This is a retake of sample from this location.
(1) pH (Soil) - 9045; ICPMS Tc-99_WE(TF); Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Dibenz[a,h]anthracene, Fluoranthere, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pyrene, Pyridine, Total cresols, Tributyl phosphate};
6010_Metals_ICP {Aluminum, Barium, Beryllium, Bismuth, Boron, Calcium, Cerium, Chromium, Cobalt, Copper, Europium, Iron, Lanthanum, Lithium, Magnesium, Manganese, Molybdenum, Neodymium, Nickel, Niobium, Palladium, Phosphorus, Potassium, Praseodymium, Rhodium, Rubidium, Ruthenium, Samarium, Silicon, Sodium, Strontium, Sulfur, Tantalum, Tellurium, Thorium, Tin, Titanium, Tungsten, Vanadium, Yttrium, Zinc, Zirconium}; 6020_METALS_ICPMS (TF) {Antimony, Arsenic, Cadmium, Lead, Selenium, Silver, Thallium}; Mercury - 7471 - (CV) (TF); IC Anions - 9056; 300.7_AMMONIUM (TF); Total Cyanide - 9014 (TF); GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Thorium-228, Thorium-234}; Americium-241 (TF); 1129_SEP_GEA (TF); C-14; CURIUM {Curium-242, Curium-243/244}; H3 - TRITIUM; Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Total Sr; Actinides ICPMS (TF) {Neptunium-237, Thorium-230, Thorium-232, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238}; RADISO_ICPMS (TF) {Technetium-99, Tin-126}; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF); PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260};

PRINTED ON 7/18/2011

A-6003-618 (REV 2)

Thursday, August 04, 2011 9:37:10 AM

Page 9 of 9

WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

August 8, 2011

Steve McKinney

Dear Steve McKinney,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF112715

Reference: (1) NA - No Customer Specification
(2) HNF-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF112715

* Cover Sheet (Attachment 1)
* Narrative (Attachment 2)
* Analytical Results (Attachment 3)
* Sample Receipt Information (Attachment 4)

Very truly yours,

Electronically signed by Joseph Hale

For Lab Manager

WSCF Analytical Lab

(509) 373-7495

Attachments 4

CC: w/Attachments
Heather Anastos
Melissa Garrard

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF112715
Data Deliverable Date 09/09/11

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
	B2FB27	112715001	SOIL	06/30/11	07/11/11
	B2FB29	112715002	SOIL	06/30/11	07/12/11
	B2FB30	112715003	SOIL	06/30/11	07/12/11
	B2FB31	112715004	SOIL	07/12/11	07/12/11

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 74 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

Washington River Protection Solutions

Attention: Steve McKinney

Contract # NA
Group # WSCF112715
Report Date August 8, 2011

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Richard Barker

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no `Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Steve McKinney
Department Inorganic

Group # WSCF112715

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
186147	186148	3	BLANK	60764	BLANK		Ammonia(N) by IC (S)
186147	186148	4	LCS	60765	LCS		Ammonia(N) by IC (S)
186147	186148	5	DUP	60766	B2FB27(112715001DUP)	112715001	Ammonia(N) by IC (S)
186147	186148	6	MS	60767	B2FB27(112715001MS)	112715001	Ammonia(N) by IC (S)
186147	186148	7	MSD	60768	B2FB27(112715001MSD)	112715001	Ammonia(N) by IC (S)
186147	186148	8	SAMPLE	112715001	B2FB27		Ammonia(N) by IC (S)
186147	186148	9	SAMPLE	112715002	B2FB29		Ammonia(N) by IC (S)
186147	186148	10	SAMPLE	112715003	B2FB30		Ammonia(N) by IC (S)
186147	186148	11	SAMPLE	112715004	B2FB31		Ammonia(N) by IC (S)
186149	186152	1	BLANK	60769	BLANK		Anions by Ion Chromatography (Solid)
186149	186152	3	LCS	60770	LCS		Anions by Ion Chromatography (Solid)
186149	186152	4	MS	60771	B2FB27(112715001MS)	112715001	Anions by Ion Chromatography (Solid)
186149	186152	5	MSD	60772	B2FB27(112715001MSD)	112715001	Anions by Ion Chromatography (Solid)
186149	186152	6	DUP	60773	B2FB27(112715001DUP)	112715001	Anions by Ion Chromatography (Solid)
186149	186152	7	SAMPLE	112715001	B2FB27		Anions by Ion Chromatography (Solid)
186149	186152	8	SAMPLE	112715002	B2FB29		Anions by Ion Chromatography (Solid)
186149	186152	9	SAMPLE	112715003	B2FB30		Anions by Ion Chromatography (Solid)
186149	186152	10	SAMPLE	112715004	B2FB31		Anions by Ion Chromatography (Solid)

Batch QC List

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187052	187073	1	BLANK	61642	BLANK		SW-846 8270D Semivolatiles
187052	187073	2	LCS	61643	LCS		SW-846 8270D Semivolatiles
187052	187073	3	MS	61644	B2FPL7(112777001MS)	112777001	SW-846 8270D Semivolatiles
187052	187073	4	MSD	61645	B2FPL7(112777001MSD)	112777001	SW-846 8270D Semivolatiles
187052	187073	5	SAMPLE	112715001	B2FB27		SW-846 8270D Semivolatiles
187052	187073	6	SAMPLE	112715002	B2FB29		SW-846 8270D Semivolatiles
187052	187073	7	SAMPLE	112715003	B2FB30		SW-846 8270D Semivolatiles
187052	187073	8	SAMPLE	112715004	B2FB31		SW-846 8270D Semivolatiles

Batch QC List

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
185929	185943	1	SAMPLE	112715001	B2FB27		Total Alpha/Beta by Liquid Scintillation
185929	185943	2	SAMPLE	112715002	B2FB29		Total Alpha/Beta by Liquid Scintillation
185929	185943	3	SAMPLE	112715003	B2FB30		Total Alpha/Beta by Liquid Scintillation
185929	185943	4	SAMPLE	112715004	B2FB31		Total Alpha/Beta by Liquid Scintillation
186050	186051	4	SAMPLE	112715001	B2FB27		Gamma Energy Analysis-general
186050	186051	5	SAMPLE	112715002	B2FB29		Gamma Energy Analysis-general
186050	186051	6	SAMPLE	112715003	B2FB30		Gamma Energy Analysis-general
186050	186051	7	SAMPLE	112715004	B2FB31		Gamma Energy Analysis-general
186249	186450	1	BLANK	60839	BLANK		TC99 by Liquid Scintillation
186249	186450	2	LCS	60840	LCS		TC99 by Liquid Scintillation
186249	186450	3	SAMPLE	112715001	B2FB27		TC99 by Liquid Scintillation
186249	186450	4	DUP	60841	B2FB27(112715001DUP)	112715001	TC99 by Liquid Scintillation
186249	186450	5	MS	60842	B2FB27(112715001MS)	112715001	TC99 by Liquid Scintillation
186249	186450	6	SAMPLE	112715002	B2FB29		TC99 by Liquid Scintillation
186249	186450	7	SAMPLE	112715003	B2FB30		TC99 by Liquid Scintillation
186249	186450	8	SAMPLE	112715004	B2FB31		TC99 by Liquid Scintillation

Batch QC List

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112715

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
186143	186143	1	LCS	60753	LCS		Soil And Waste pH Measurement
186143	186143	2	DUP	60754	B2FB27(112715001DUP)	112715001	Soil And Waste pH Measurement
186143	186143	3	SAMPLE	112715001	B2FB27		Soil And Waste pH Measurement
186143	186143	4	SAMPLE	112715002	B2FB29		Soil And Waste pH Measurement
186143	186143	5	SAMPLE	112715003	B2FB30		Soil And Waste pH Measurement
186143	186143	6	SAMPLE	112715004	B2FB31		Soil And Waste pH Measurement
186143	186143	7	LCS	60755	LCS		Soil And Waste pH Measurement
186159	186159	1	SAMPLE	112715001	B2FB27		Dry Weight/Percent Moisture
186159	186159	2	SAMPLE	112715002	B2FB29		Dry Weight/Percent Moisture
186159	186159	3	SAMPLE	112715003	B2FB30		Dry Weight/Percent Moisture
186159	186159	4	SAMPLE	112715004	B2FB31		Dry Weight/Percent Moisture
186444	186670	1	BLANK	60847	BLANK		Cyanide by Midi/Spectrophotometer
186444	186670	4	LCS	60849	LCS		Cyanide by Midi/Spectrophotometer
186444	186670	5	MS	60850	B2C1R8(112630001MS)	112630001	Cyanide by Midi/Spectrophotometer
186444	186670	6	MSD	60851	B2C1R8(112630001MSD)	112630001	Cyanide by Midi/Spectrophotometer
186444	186670	10	SAMPLE	112715001	B2FB27		Cyanide by Midi/Spectrophotometer
186444	186670	11	SAMPLE	112715002	B2FB29		Cyanide by Midi/Spectrophotometer
186444	186670	12	SAMPLE	112715003	B2FB30		Cyanide by Midi/Spectrophotometer
186444	186670	13	SAMPLE	112715004	B2FB31		Cyanide by Midi/Spectrophotometer
186889	186889	1	LCS	61546	LCS		Conductivity
186889	186889	2	SAMPLE	112715001	B2FB27		Conductivity
186889	186889	3	SAMPLE	112715002	B2FB29		Conductivity
186889	186889	4	SAMPLE	112715003	B2FB30		Conductivity

Batch QC List

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112715

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
186889	186889	5	SAMPLE	112715004	B2FB31		Conductivity

Method Reference

Attention Steve McKinney
Department Inorganic

Group # WSCF112715

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-503-401	Analysis of Cations by Ion Chromatography		
	HEIS	300.7_CATIONS_IC	Determination of Cations by IC
LA-533-410	Anion Analysis by Ion Chromatography		
	EPA-600/R-94-111	300.0	Determination of Inorganic Anions by Ion Chromatography
	HEIS	300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-523-456 Semivolatile Sample Analysis by SW-846 Method 8270D

EPA SW-846	8000B	Determinative Chromagraphic Separations
EPA SW-846	3510C	Separatory Funnel Liquid-Liquid Extraction
EPA SW-846	8270D	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
EPA SW-846	3545	Pressurized Fluid Extraction (PFE)
HEIS	8270_SVOA_GCMS	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry(GC/MS)

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-508-481	Gamma Energy Analysis using the Canberra Genie Ssystem		
	HEIS	GAMMA_GS	Gamma Energy Analysis
LA-508-421	Operation of the Tri-Carb Model 2500TR Liquid Scintillation Analyzer		
	HEIS	ALPHA_LSC	A/B Liquid Scintillation
	HEIS	BETA_LSC	A/B Liquid Scintillation
	HEIS	TC99_3MDSK_LSC	TC99 by Liquid Scintillation
	HEIS	TRITIUM_EIE_LSC	Tritium, by Eichrome ion exchange, LSC

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112715

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-519-401	Conductivity		
	ASTM	D1125	Standard Test Methods for Electrical Conductivity and Resistivity of Water
	EPA SW-846	9050A	Specific Conductance
	HEIS	120.1_CONDUCT	Specific Conductance
LA-212-411	Determination of Soil pH Measurement		
	HEIS	150.1_PH	pH
LA-519-412	Total Residual Percent Solids Dried at 103 - 105 Degrees C		
	EPA-600/4-79-020	160.3	Total Residue
	Standard Methods	2540B	Total Solids Dried at 103-105 C
	HEIS	%SOLIDS	Dry Weight, Percent Solids
LA-695-402	Determination of Cyanide by Mididistillation and		
	EPA	SW-846 Method 9014/9010	Determination of Cyanide by Midi-Distillation and Spectrophotometric Analysis
	SM	4500 CNE	Cyanide, Total
	HEIS	335.2_CYANIDE	Cyanide, Total

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

WSCF Analytical Results Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112715

Sample # 112715001
SAF#
Sample ID B2FB27

Matrix SOIL
Sampled 06/30/11
Received 07/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anion Prep										**07/18/11**
Cation by IC										
Ammonia (N)	7664-41-7	LA-503-401	U	<0.073		mg/kg	1	0.073	1.4	07/18/11
Anions by IC										**07/18/11**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	U	<1.9		mg/kg	1	1.9	3.8	07/18/11
Chloride	16887-00-6	LA-533-410	U	<3.2		mg/kg	1	3.2	21	07/18/11
Nitrite-N	14797-55-8	LA-533-410	U	<1.0		mg/kg	1	1.0	5.1	07/18/11
Bromide	24959-67-9	LA-533-410	U	<4.3		mg/kg	1	4.3	25	07/18/11
Nitrate-N	7631-99-4	LA-533-410	U	<0.99		mg/kg	1	0.99	5.2	07/18/11
Phosphate-P	14265-44-2	LA-533-410	U	<2.6		mg/kg	1	2.6	19	07/18/11
Sulfate	14808-79-8	LA-533-410	U	<3.8		mg/kg	1	3.8	55	07/18/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112715

Sample # 112715002
SAF#
Sample ID B2FB29

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anion Prep										**07/18/11**
Cation by IC										
Ammonia (N)	7664-41-7	LA-503-401	U	<0.072		mg/kg	1	0.072	1.3	07/18/11
Anions by IC										**07/18/11**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	U	<1.8		mg/kg	1	1.8	3.7	07/18/11
Chloride	16887-00-6	LA-533-410	U	<3.2		mg/kg	1	3.2	21	07/18/11
Nitrite-N	14797-55-8	LA-533-410	U	<1.0		mg/kg	1	1.0	5.0	07/18/11
Bromide	24959-67-9	LA-533-410	U	<4.3		mg/kg	1	4.3	25	07/18/11
Nitrate-N	7631-99-4	LA-533-410	U	<0.98		mg/kg	1	0.98	5.1	07/18/11
Phosphate-P	14265-44-2	LA-533-410	U	<2.6		mg/kg	1	2.6	18	07/18/11
Sulfate	14808-79-8	LA-533-410	U	<3.7		mg/kg	1	3.7	54	07/18/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112715

Sample # 112715003
SAF#
Sample ID B2FB30

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anion Prep										**07/18/11**
Cation by IC										
Ammonia (N)	7664-41-7	LA-503-401		2.03		mg/kg	1	0.072	1.3	07/18/11
Anions by IC										**07/18/11**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	U	<1.8		mg/kg	1	1.8	3.7	07/18/11
Chloride	16887-00-6	LA-533-410	B	5.65		mg/kg	1	3.2	21	07/18/11
Nitrite-N	14797-55-8	LA-533-410	U	<1.0		mg/kg	1	1.0	5.0	07/18/11
Bromide	24959-67-9	LA-533-410	U	<4.3		mg/kg	1	4.3	25	07/18/11
Nitrate-N	7631-99-4	LA-533-410	B	1.19		mg/kg	1	0.97	5.1	07/18/11
Phosphate-P	14265-44-2	LA-533-410	U	<2.6		mg/kg	1	2.6	18	07/18/11
Sulfate	14808-79-8	LA-533-410		592		mg/kg	1	3.7	54	07/18/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112715

Sample # 112715004
SAF#
Sample ID B2FB31

Matrix SOIL
Sampled 07/12/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anion Prep										**07/18/11**
Cation by IC										
Ammonia (N)	7664-41-7	LA-503-401	B	0.141		mg/kg	1	0.076	1.4	07/18/11
Anions by IC										**07/18/11**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	U	<2.0		mg/kg	1	2.0	3.9	07/18/11
Chloride	16887-00-6	LA-533-410		69.0		mg/kg	1	3.4	22	07/18/11
Nitrite-N	14797-55-8	LA-533-410	U	<1.1		mg/kg	1	1.1	5.3	07/18/11
Bromide	24959-67-9	LA-533-410	U	<4.5		mg/kg	1	4.5	26	07/18/11
Nitrate-N	7631-99-4	LA-533-410		13.0		mg/kg	1	1.0	5.4	07/18/11
Phosphate-P	14265-44-2	LA-533-410	U	<2.7		mg/kg	1	2.7	19	07/18/11
Sulfate	14808-79-8	LA-533-410		366		mg/kg	1	3.9	57	07/18/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715001
SAF#
Sample ID B2FB27

Matrix SOIL
Sampled 06/30/11
Received 07/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8270 Prep										**07/28/11**
SW-846 8270D										
4-Nitrophenol	100-02-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Phenol	108-95-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Pyrene	129-00-0	LA-523-456	UT	<200		ug/kg	1	200	800	08/03/11
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Acenaphthene	83-32-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Pentachlorophenol	87-86-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Chlorophenol	95-57-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Nitroaniline	100-01-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Chloroaniline	106-47-8	LA-523-456	U	<300		ug/kg	1	300	800	08/03/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715001
SAF#
Sample ID B2FB27

Matrix SOIL
Sampled 06/30/11
Received 07/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Di-n-octylphthalate	117-84-0	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Hexachlorobenzene	118-74-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Anthracene	120-12-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Dimethylphthalate	131-11-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Dibenzofuran	132-64-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Fluoranthene	206-44-0	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Acenaphthylene	208-96-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Chrysene	218-01-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715001
SAF#
Sample ID B2FB27

Matrix SOIL
Sampled 06/30/11
Received 07/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(a)anthracene	56-55-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Isophorone	78-59-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Diethyl phthalate	84-66-2	LA-523-456	U	<300		ug/kg	1	300	800	08/03/11
Di-n-butylphthalate	84-74-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Phenanthrene	85-01-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Butylbenzylphthalate	85-68-7	LA-523-456	U	<300		ug/kg	1	300	800	08/03/11
n-Nitrosodiphenylamine	86-30-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Fluorene	86-73-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
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T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715001
SAF#
Sample ID B2FB27

Matrix SOIL
Sampled 06/30/11
Received 07/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbazole	86-74-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Hexachlorobutadiene	87-68-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Nitroaniline	88-74-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Nitrophenol	88-75-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Naphthalene	91-20-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Methylnaphthalene	91-57-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Chloronaphthalene	91-58-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Methylphenol	95-48-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Nitrobenzene	98-95-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
3-Nitroaniline	99-09-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Hexachloroethane	67-72-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
n-Decane	124-18-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
n-Dodecane	112-40-3	LA-523-456	U	<300		ug/kg	1	300	800	08/03/11
Benzyl alcohol	100-51-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11

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X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715001
SAF#
Sample ID B2FB27

Matrix SOIL
Sampled 06/30/11
Received 07/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Butoxyethanol	111-76-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Tributyl phosphate	126-73-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Naphthylamine	91-59-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Cyclohexanone	108-94-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Pyridine	110-86-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzoic Acid	65-85-0	LA-523-456	U	<200		ug/kg	1	200	2.E3	08/03/11

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WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715002
SAF#
Sample ID B2FB29

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8270 Prep										**07/28/11**
SW-846 8270D										
4-Nitrophenol	100-02-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Phenol	108-95-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Pyrene	129-00-0	LA-523-456	UT	<200		ug/kg	1	200	800	08/03/11
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Acenaphthene	83-32-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Pentachlorophenol	87-86-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Chlorophenol	95-57-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Nitroaniline	100-01-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Chloroaniline	106-47-8	LA-523-456	U	<300		ug/kg	1	300	800	08/03/11

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PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715002
SAF#
Sample ID B2FB29

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Di-n-octylphthalate	117-84-0	LA-523-456	J	300		ug/kg	1	200	800	08/03/11
Hexachlorobenzene	118-74-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Anthracene	120-12-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Dimethylphthalate	131-11-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Dibenzofuran	132-64-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Fluoranthene	206-44-0	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Acenaphthylene	208-96-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Chrysene	218-01-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11

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PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715002
SAF#
Sample ID B2FB29

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(a)anthracene	56-55-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Isophorone	78-59-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Diethyl phthalate	84-66-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Di-n-butylphthalate	84-74-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Phenanthrene	85-01-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Butylbenzylphthalate	85-68-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
n-Nitrosodiphenylamine	86-30-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Fluorene	86-73-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11

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WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715002
SAF#
Sample ID B2FB29

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbazole	86-74-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Hexachlorobutadiene	87-68-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Nitroaniline	88-74-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Nitrophenol	88-75-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Naphthalene	91-20-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Methylnaphthalene	91-57-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Chloronaphthalene	91-58-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Methylphenol	95-48-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Nitrobenzene	98-95-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
3-Nitroaniline	99-09-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Hexachloroethane	67-72-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
n-Decane	124-18-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
n-Dodecane	112-40-3	LA-523-456	U	<300		ug/kg	1	300	800	08/03/11
Benzyl alcohol	100-51-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11

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PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715002
SAF#
Sample ID B2FB29

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Butoxyethanol	111-76-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Tributyl phosphate	126-73-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Naphthylamine	91-59-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Cyclohexanone	108-94-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Pyridine	110-86-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzoic Acid	65-85-0	LA-523-456	U	<200		ug/kg	1	200	2.E3	08/03/11

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X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715003
SAF#
Sample ID B2FB30

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8270 Prep										**07/28/11**
SW-846 8270D										
4-Nitrophenol	100-02-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Phenol	108-95-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Pyrene	129-00-0	LA-523-456	UT	<200		ug/kg	1	200	800	08/03/11
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Acenaphthene	83-32-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Pentachlorophenol	87-86-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Chlorophenol	95-57-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Nitroaniline	100-01-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Chloroaniline	106-47-8	LA-523-456	U	<300		ug/kg	1	300	800	08/03/11

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PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715003
SAF#
Sample ID B2FB30

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Di-n-octylphthalate	117-84-0	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Hexachlorobenzene	118-74-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Anthracene	120-12-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Dimethylphthalate	131-11-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Dibenzofuran	132-64-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Fluoranthene	206-44-0	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Acenaphthylene	208-96-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Chrysene	218-01-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
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U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715003
SAF#
Sample ID B2FB30

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzo(a)anthracene	56-55-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Isophorone	78-59-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Diethyl phthalate	84-66-2	LA-523-456	U	<300		ug/kg	1	300	800	08/03/11
Di-n-butylphthalate	84-74-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Phenanthrene	85-01-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Butylbenzylphthalate	85-68-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
n-Nitrosodiphenylamine	86-30-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Fluorene	86-73-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11

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X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715003
SAF#
Sample ID B2FB30

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbazole	86-74-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Hexachlorobutadiene	87-68-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Nitroaniline	88-74-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Nitrophenol	88-75-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Naphthalene	91-20-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Methylnaphthalene	91-57-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Chloronaphthalene	91-58-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Methylphenol	95-48-7	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Nitrobenzene	98-95-3	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
3-Nitroaniline	99-09-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Hexachloroethane	67-72-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
n-Decane	124-18-5	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
n-Dodecane	112-40-3	LA-523-456	U	<300		ug/kg	1	300	800	08/03/11
Benzyl alcohol	100-51-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11

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PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715003
SAF#
Sample ID B2FB30

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Butoxyethanol	111-76-2	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Tributyl phosphate	126-73-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
2-Naphthylamine	91-59-8	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Cyclohexanone	108-94-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Pyridine	110-86-1	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	<200		ug/kg	1	200	800	08/03/11
Benzoic Acid	65-85-0	LA-523-456	U	<200		ug/kg	1	200	2.E3	08/03/11

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WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715004
SAF#
Sample ID B2FB31

Matrix SOIL
Sampled 07/12/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8270 Prep										**07/28/11**
SW-846 8270D										
4-Nitrophenol	100-02-7	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Phenol	108-95-2	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Pyrene	129-00-0	LA-523-456	UT	<200		ug/kg	1	200	900	08/03/11
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Acenaphthene	83-32-9	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Pentachlorophenol	87-86-5	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2-Chlorophenol	95-57-8	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
4-Nitroaniline	100-01-6	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
4-Chloroaniline	106-47-8	LA-523-456	U	<400		ug/kg	1	400	900	08/03/11

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PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715004
SAF#
Sample ID B2FB31

Matrix SOIL
Sampled 07/12/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Di-n-octylphthalate	117-84-0	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Hexachlorobenzene	118-74-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Anthracene	120-12-7	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Dimethylphthalate	131-11-3	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Dibenzofuran	132-64-9	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Fluoranthene	206-44-0	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Acenaphthylene	208-96-8	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Chrysene	218-01-9	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11

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PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715004
SAF#
Sample ID B2FB31

Matrix SOIL
Sampled 07/12/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Benzo(a)anthracene	56-55-3	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Isophorone	78-59-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Diethyl phthalate	84-66-2	LA-523-456	U	<300		ug/kg	1	300	900	08/03/11
Di-n-butylphthalate	84-74-2	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Phenanthrene	85-01-8	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Butylbenzylphthalate	85-68-7	LA-523-456	U	<300		ug/kg	1	300	900	08/03/11
n-Nitrosodiphenylamine	86-30-6	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Fluorene	86-73-7	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11

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WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715004
SAF#
Sample ID B2FB31

Matrix SOIL
Sampled 07/12/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbazole	86-74-8	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Hexachlorobutadiene	87-68-3	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2-Nitroaniline	88-74-4	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2-Nitrophenol	88-75-5	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Naphthalene	91-20-3	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2-Methylnaphthalene	91-57-6	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2-Chloronaphthalene	91-58-7	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2-Methylphenol	95-48-7	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Nitrobenzene	98-95-3	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
3-Nitroaniline	99-09-2	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Hexachloroethane	67-72-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
n-Decane	124-18-5	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
n-Dodecane	112-40-3	LA-523-456	U	<300		ug/kg	1	300	900	08/03/11
Benzyl alcohol	100-51-6	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11

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PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Sample # 112715004
SAF#
Sample ID B2FB31

Matrix SOIL
Sampled 07/12/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Butoxyethanol	111-76-2	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Tributyl phosphate	126-73-8	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
2-Naphthylamine	91-59-8	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Cyclohexanone	108-94-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Pyridine	110-86-1	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	<200		ug/kg	1	200	900	08/03/11
Benzoic Acid	65-85-0	LA-523-456	U	<200		ug/kg	1	200	2.E3	08/03/11

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X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715001
SAF#
Sample ID B2FB27

Matrix SOIL
Sampled 06/30/11
Received 07/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
GEA Prep										**07/18/11**
GEA										
Americium-241	14596-10-2	LA-508-481	U	-0.095	.27	pCi/g	1	0.45		07/19/11
Antimony-125	14234-35-6	LA-508-481	U	0.043	.086	pCi/g	1	0.16		07/19/11
Barium-133	13981-41-4	LA-508-481	U	7.5E-3	.044	pCi/g	1	0.073		07/19/11
Cerium-144	14762-78-8	LA-508-481	U	-0.089	.23	pCi/g	1	0.41		07/19/11
Cerium/Praseodymium -144	CE/PR-144	LA-508-481	U	-0.18	.47	pCi/g	1	0.82		07/19/11
Cesium-134	13967-70-9	LA-508-481	U	6.8E-3	.19	pCi/g	1	0.34		07/19/11
Cesium-137	10045-97-3	LA-508-481	U	0.034	.037	pCi/g	1	0.072		07/19/11
Cobalt-60	10198-40-0	LA-508-481	U	-0.017	.035	pCi/g	1	0.063		07/19/11
Europium-152	14683-23-9	LA-508-481	U	-0.11	.1	pCi/g	1	0.17		07/19/11
Europium-154	15585-10-1	LA-508-481	U	0.039	.11	pCi/g	1	0.21		07/19/11
Europium-155	14391-16-3	LA-508-481	U	0.14	.13	pCi/g	1	0.25		07/19/11
Niobium-94	14681-63-1	LA-508-481	U	-7.5E-3	.033	pCi/g	1	0.060		07/19/11
Potassium-40	13966-00-2	LA-508-481		23	3	pCi/g	1	0.56		07/19/11
Radium-226	13982-63-3	LA-508-481		0.80	.17	pCi/g	1	0.13		07/19/11
Radium-228	15262-20-1	LA-508-481		0.71	.2	pCi/g	1	0.39		07/19/11
Ruthenium-106	13967-48-1	LA-508-481	U	0.058	.28	pCi/g	1	0.54		07/19/11
Tin-126	15832-50-5	LA-508-481		1.3	.43	pCi/g	1	0.17		07/19/11

MDL = Minimum Detection
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U - Analyzed for but not detected above limiting criteria.
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X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715001
SAF#
Sample ID B2FB27

Matrix SOIL
Sampled 06/30/11
Received 07/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Thorium-234	15065-10-8	LA-508-481	U	1.0	.7	pCi/g	1	1.4		07/19/11
Uranium-235	15117-96-1	LA-508-481		0.12	.083	pCi/g	1	0.089		07/19/11
Zinc-65	13982-39-3	LA-508-481	U	0.041	.099	pCi/g	1	0.16		07/19/11
Actinium-228	14331-83-0	LA-508-481		0.71	.2	pCi/g	1	0.39		07/19/11
Bismuth-212	14913-49-6	LA-508-481		1.3	.89	pCi/g	1	0.88		07/19/11
Bismuth-214	14733-03-0	LA-508-481		1.0	.3	pCi/g	1	0.13		07/19/11
Lead-212	15092-94-1	LA-508-481		0.83	.19	pCi/g	1	0.13		07/19/11
Lead-214	15067-28-4	LA-508-481		0.81	.18	pCi/g	1	0.14		07/19/11
Ruthenium-103	13968-53-1	LA-508-481	U	-0.019	.031	pCi/g	1	0.054		07/19/11
Tin-113	13966-06-8	LA-508-481	U	-0.031	.043	pCi/g	1	0.076		07/19/11
Thallium-208	14913-50-9	LA-508-481		0.71	.58	pCi/g	1	0.062		07/19/11
Beryllium-7	13966-02-4	LA-508-481	U	-0.028	.28	pCi/g	1	0.48		07/19/11
Cobalt-57	13981-50-5	LA-508-481	U	-0.037	.032	pCi/g	1	0.053		07/19/11
Manganese-54	13966-31-9	LA-508-481	U	0.014	.037	pCi/g	1	0.069		07/19/11
LSC Prep										**07/15/11**
TC99 TRI-CARB LSC										
Total Alpha	12587-46-1-T	LA-508-421	U	1.3	1.4	pCi/g	1	2.3		07/15/11
Total Beta	12587-47-2-T	LA-508-421		8.4	2.5	pCi/g	1	2.9		07/15/11
Tc-99 Prep										**07/19/11**

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WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715001
SAF#
Sample ID B2FB27

Matrix SOIL
Sampled 06/30/11
Received 07/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
TC99 TRI-CARB LSC										
Technetium-99	14133-76-7	LA-508-421	U	-0.21	.15	pCi/g	1	0.31		07/20/11

MDL = Minimum Detection
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TP Err = Total Propagated
DF = Dilution Factor
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X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715002
SAF#
Sample ID B2FB29

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
GEA Prep										**07/18/11**
GEA										
Americium-241	14596-10-2	LA-508-481	U	0.11	.22	pCi/g	1	0.36		07/19/11
Antimony-125	14234-35-6	LA-508-481	U	-0.018	.082	pCi/g	1	0.13		07/19/11
Barium-133	13981-41-4	LA-508-481	U	-0.010	.035	pCi/g	1	0.055		07/19/11
Cerium-144	14762-78-8	LA-508-481	U	-0.087	.19	pCi/g	1	0.33		07/19/11
Cerium/Praseodymium -144	CE/PR-144	LA-508-481	U	-0.17	.39	pCi/g	1	0.67		07/19/11
Cesium-134	13967-70-9	LA-508-481	U	0.081	.14	pCi/g	1	0.27		07/19/11
Cesium-137	10045-97-3	LA-508-481	U	-0.036	.029	pCi/g	1	0.048		07/19/11
Cobalt-60	10198-40-0	LA-508-481	U	-9.8E-3	.029	pCi/g	1	0.051		07/19/11
Europium-152	14683-23-9	LA-508-481	U	-0.024	.086	pCi/g	1	0.14		07/19/11
Europium-154	15585-10-1	LA-508-481	U	0.035	.089	pCi/g	1	0.17		07/19/11
Europium-155	14391-16-3	LA-508-481	U	0.12	.11	pCi/g	1	0.20		07/19/11
Niobium-94	14681-63-1	LA-508-481	U	-4.1E-3	.029	pCi/g	1	0.045		07/19/11
Potassium-40	13966-00-2	LA-508-481		21	2.7	pCi/g	1	0.44		07/19/11
Radium-226	13982-63-3	LA-508-481		0.67	.13	pCi/g	1	0.086		07/19/11
Radium-228	15262-20-1	LA-508-481		0.86	.21	pCi/g	1	0.15		07/19/11
Ruthenium-106	13967-48-1	LA-508-481	U	0.076	.24	pCi/g	1	0.45		07/19/11
Tin-126	15832-50-5	LA-508-481		0.17	.11	pCi/g	1	0.16		07/19/11

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WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715002
SAF#
Sample ID B2FB29

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Thorium-234	15065-10-8	LA-508-481		1.5	.84	pCi/g	1	0.89		07/19/11
Uranium-235	15117-96-1	LA-508-481		0.11	.072	pCi/g	1	0.068		07/19/11
Zinc-65	13982-39-3	LA-508-481	U	0.057	.081	pCi/g	1	0.13		07/19/11
Actinium-228	14331-83-0	LA-508-481		0.80	.32	pCi/g	1	0.15		07/19/11
Bismuth-212	14913-49-6	LA-508-481		0.97	.52	pCi/g	1	0.65		07/19/11
Bismuth-214	14733-03-0	LA-508-481		0.96	.23	pCi/g	1	0.086		07/19/11
Lead-212	15092-94-1	LA-508-481		0.85	.13	pCi/g	1	0.087		07/19/11
Lead-214	15067-28-4	LA-508-481		0.71	.13	pCi/g	1	0.095		07/19/11
Ruthenium-103	13968-53-1	LA-508-481	U	-0.021	.025	pCi/g	1	0.042		07/19/11
Tin-113	13966-06-8	LA-508-481	U	-0.014	.033	pCi/g	1	0.059		07/19/11
Thallium-208	14913-50-9	LA-508-481		0.50	.45	pCi/g	1	0.048		07/19/11
Beryllium-7	13966-02-4	LA-508-481	U	0.18	.22	pCi/g	1	0.42		07/19/11
Cobalt-57	13981-50-5	LA-508-481	U	-0.030	.025	pCi/g	1	0.041		07/19/11
Manganese-54	13966-31-9	LA-508-481	U	0.019	.029	pCi/g	1	0.055		07/19/11
LSC Prep										**07/15/11**
TC99 TRI-CARB LSC										
Total Alpha	12587-46-1-T	LA-508-421	U	-0.92	1.4	pCi/g	1	2.3		07/15/11
Total Beta	12587-47-2-T	LA-508-421		6.0	2.2	pCi/g	1	2.9		07/15/11
Tc-99 Prep										**07/19/11**

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X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715002
SAF#
Sample ID B2FB29

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
TC99 TRI-CARB LSC										
Technetium-99	14133-76-7	LA-508-421	U	-0.41	.17	pCi/g	1	0.31		07/20/11

MDL = Minimum Detection
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TP Err = Total Propagated
DF = Dilution Factor
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X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715003
SAF#
Sample ID B2FB30

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
GEA Prep										**07/18/11**
GEA										
Americium-241	14596-10-2	LA-508-481	U	-0.071	.38	pCi/g	1	0.67		07/19/11
Antimony-125	14234-35-6	LA-508-481	U	-0.022	.094	pCi/g	1	0.17		07/19/11
Barium-133	13981-41-4	LA-508-481	U	-8.5E-3	.049	pCi/g	1	0.076		07/19/11
Cerium-144	14762-78-8	LA-508-481	U	-0.22	.31	pCi/g	1	0.52		07/19/11
Cerium/Praseodymium -144	CE/PR-144	LA-508-481	U	-0.43	.62	pCi/g	1	1.0		07/19/11
Cesium-134	13967-70-9	LA-508-481	U	-2.1E-3	.19	pCi/g	1	0.35		07/19/11
Cesium-137	10045-97-3	LA-508-481	U	0.019	.035	pCi/g	1	0.068		07/19/11
Cobalt-60	10198-40-0	LA-508-481	U	0.023	.03	pCi/g	1	0.063		07/19/11
Europium-152	14683-23-9	LA-508-481	U	0.0060	.12	pCi/g	1	0.19		07/19/11
Europium-154	15585-10-1	LA-508-481	U	0.012	.11	pCi/g	1	0.20		07/19/11
Europium-155	14391-16-3	LA-508-481	U	0.048	.17	pCi/g	1	0.31		07/19/11
Niobium-94	14681-63-1	LA-508-481	U	-0.025	.034	pCi/g	1	0.057		07/19/11
Potassium-40	13966-00-2	LA-508-481		25	3.3	pCi/g	1	0.55		07/19/11
Radium-226	13982-63-3	LA-508-481		0.96	.21	pCi/g	1	0.12		07/19/11
Radium-228	15262-20-1	LA-508-481		1.1	.29	pCi/g	1	0.25		07/19/11
Ruthenium-106	13967-48-1	LA-508-481	U	0.043	.3	pCi/g	1	0.55		07/19/11
Tin-126	15832-50-5	LA-508-481		0.28	.2	pCi/g	1	0.27		07/19/11

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WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715003
SAF#
Sample ID B2FB30

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Thorium-234	15065-10-8	LA-508-481	U	1.4	1.3	pCi/g	1	1.7		07/19/11
Uranium-235	15117-96-1	LA-508-481		0.12	.085	pCi/g	1	0.11		07/19/11
Zinc-65	13982-39-3	LA-508-481	U	0.017	.086	pCi/g	1	0.14		07/19/11
Actinium-228	14331-83-0	LA-508-481		1.4	.43	pCi/g	1	0.25		07/19/11
Bismuth-212	14913-49-6	LA-508-481		1.6	.92	pCi/g	1	0.76		07/19/11
Bismuth-214	14733-03-0	LA-508-481		1.3	.27	pCi/g	1	0.12		07/19/11
Lead-212	15092-94-1	LA-508-481		1.0	.19	pCi/g	1	0.14		07/19/11
Lead-214	15067-28-4	LA-508-481		0.76	.62	pCi/g	1	0.13		07/19/11
Ruthenium-103	13968-53-1	LA-508-481	U	-0.017	.031	pCi/g	1	0.055		07/19/11
Tin-113	13966-06-8	LA-508-481	U	6.1E-3	.048	pCi/g	1	0.086		07/19/11
Thallium-208	14913-50-9	LA-508-481		0.32	.077	pCi/g	1	0.065		07/19/11
Beryllium-7	13966-02-4	LA-508-481	U	0.17	.3	pCi/g	1	0.58		07/19/11
Cobalt-57	13981-50-5	LA-508-481	U	0.016	.04	pCi/g	1	0.072		07/19/11
Manganese-54	13966-31-9	LA-508-481	U	0.033	.036	pCi/g	1	0.064		07/19/11
LSC Prep										**07/15/11**
TC99 TRI-CARB LSC										
Total Alpha	12587-46-1-T	LA-508-421	U	0.20	1.4	pCi/g	1	2.3		07/15/11
Total Beta	12587-47-2-T	LA-508-421		4.6	2	pCi/g	1	2.9		07/15/11
Tc-99 Prep										**07/19/11**

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WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715003
SAF#
Sample ID B2FB30

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
TC99 TRI-CARB LSC										
Technetium-99	14133-76-7	LA-508-421	U	-0.41	.16	pCi/g	1	0.21		07/20/11

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TP Err = Total Propagated
DF = Dilution Factor
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X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715004
SAF#
Sample ID B2FB31

Matrix SOIL
Sampled 07/12/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
GEA Prep										**07/18/11**
GEA										
Americium-241	14596-10-2	LA-508-481	U	0.034	.11	pCi/g	1	0.22		07/19/11
Antimony-125	14234-35-6	LA-508-481	U	-0.017	.049	pCi/g	1	0.090		07/19/11
Barium-133	13981-41-4	LA-508-481	U	-0.028	.027	pCi/g	1	0.040		07/19/11
Cerium-144	14762-78-8	LA-508-481	U	0.049	.15	pCi/g	1	0.28		07/19/11
Cerium/Praseodymium -144	CE/PR-144	LA-508-481	U	0.098	.3	pCi/g	1	0.55		07/19/11
Cesium-134	13967-70-9	LA-508-481	U	-0.044	.099	pCi/g	1	0.19		07/19/11
Cesium-137	10045-97-3	LA-508-481	U	-8.1E-4	.018	pCi/g	1	0.035		07/19/11
Cobalt-60	10198-40-0	LA-508-481	U	0.020	.017	pCi/g	1	0.038		07/19/11
Europium-152	14683-23-9	LA-508-481	U	0.045	.056	pCi/g	1	0.10		07/19/11
Europium-154	15585-10-1	LA-508-481	U	-0.064	.063	pCi/g	1	0.089		07/19/11
Europium-155	14391-16-3	LA-508-481	U	0.064	.076	pCi/g	1	0.15		07/19/11
Niobium-94	14681-63-1	LA-508-481	U	0.018	.016	pCi/g	1	0.033		07/19/11
Potassium-40	13966-00-2	LA-508-481		14	1.7	pCi/g	1	0.28		07/19/11
Radium-226	13982-63-3	LA-508-481		0.98	.15	pCi/g	1	0.069		07/19/11
Radium-228	15262-20-1	LA-508-481		0.76	.15	pCi/g	1	0.10		07/19/11
Ruthenium-106	13967-48-1	LA-508-481	U	-0.054	.15	pCi/g	1	0.28		07/19/11
Tin-126	15832-50-5	LA-508-481		0.16	.093	pCi/g	1	0.11		07/19/11

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WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715004
SAF#
Sample ID B2FB31

Matrix SOIL
Sampled 07/12/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Thorium-234	15065-10-8	LA-508-481	U	0.53	.46	pCi/g	1	0.70		07/19/11
Uranium-235	15117-96-1	LA-508-481		0.092	.042	pCi/g	1	0.052		07/19/11
Zinc-65	13982-39-3	LA-508-481	U	3.6E-3	.043	pCi/g	1	0.075		07/19/11
Actinium-228	14331-83-0	LA-508-481		0.78	.23	pCi/g	1	0.10		07/19/11
Bismuth-212	14913-49-6	LA-508-481		1.1	.37	pCi/g	1	0.46		07/19/11
Bismuth-214	14733-03-0	LA-508-481		1.1	.19	pCi/g	1	0.069		07/19/11
Lead-212	15092-94-1	LA-508-481		0.77	.1	pCi/g	1	0.062		07/19/11
Lead-214	15067-28-4	LA-508-481		0.91	.13	pCi/g	1	0.068		07/19/11
Ruthenium-103	13968-53-1	LA-508-481	U	-5.9E-3	.017	pCi/g	1	0.031		07/19/11
Tin-113	13966-06-8	LA-508-481	U	-5.2E-3	.026	pCi/g	1	0.041		07/19/11
Thallium-208	14913-50-9	LA-508-481		0.21	.046	pCi/g	1	0.034		07/19/11
Beryllium-7	13966-02-4	LA-508-481	U	-0.020	.16	pCi/g	1	0.30		07/19/11
Cobalt-57	13981-50-5	LA-508-481	U	0.019	.018	pCi/g	1	0.035		07/19/11
Manganese-54	13966-31-9	LA-508-481	U	3.6E-3	.018	pCi/g	1	0.034		07/19/11
LSC Prep										**07/15/11**
TC99 TRI-CARB LSC										
Total Alpha	12587-46-1-T	LA-508-421	U	-1.1	1.4	pCi/g	1	2.3		07/15/11
Total Beta	12587-47-2-T	LA-508-421		6.3	2.2	pCi/g	1	2.9		07/15/11
Tc-99 Prep										**07/19/11**

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

Sample # 112715004
SAF#
Sample ID B2FB31

Matrix SOIL
Sampled 07/12/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
TC99 TRI-CARB LSC										
Technetium-99	14133-76-7	LA-508-421		3.3	.63	pCi/g	1	0.33		07/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112715

Sample # 112715001
SAF#
Sample ID B2FB27

Matrix SOIL
Sampled 06/30/11
Received 07/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Conductivity										**07/27/11**
Conductivity										
Conductivity	CONDUCT	LA-519-401		79.9		uS/cm	1	0.50	5.0	07/27/11
Cyanide Prep										**07/19/11**
Cyanide										
Cyanide	57-12-5	LA-695-402	U	<0.21		mg/kg	1	0.21	1.0	07/19/11
Total Residue										**07/18/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		96		percent	1			07/18/11
pH on Solids										**07/18/11**
pH on Solids										
pH	PH	LA-212-411		9.20		unitless	1	0.010	0.50	07/18/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112715

Sample # 112715002
SAF#
Sample ID B2FB29

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Conductivity										**07/27/11**
Conductivity										
Conductivity	CONDUCT	LA-519-401		78.5		uS/cm	1	0.50	5.0	07/27/11
Cyanide Prep										**07/19/11**
Cyanide										
Cyanide	57-12-5	LA-695-402	U	<0.21		mg/kg	1	0.21	1.0	07/19/11
Total Residue										**07/18/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		96		percent	1			07/18/11
pH on Solids										**07/18/11**
pH on Solids										
pH	PH	LA-212-411		9.30		unitless	1	0.010	0.50	07/18/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112715

Sample # 112715003
SAF#
Sample ID B2FB30

Matrix SOIL
Sampled 06/30/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Conductivity										**07/27/11**
Conductivity										
Conductivity	CONDUCT	LA-519-401		75.3		uS/cm	1	0.50	5.0	07/27/11
Cyanide Prep										**07/19/11**
Cyanide										
Cyanide	57-12-5	LA-695-402	U	<0.21		mg/kg	1	0.21	1.0	07/19/11
Total Residue										**07/18/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		97		percent	1			07/18/11
pH on Solids										**07/18/11**
pH on Solids										
pH	PH	LA-212-411		9.32		unitless	1	0.010	0.50	07/18/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112715

Sample # 112715004
SAF#
Sample ID B2FB31

Matrix SOIL
Sampled 07/12/11
Received 07/12/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Conductivity										**07/27/11**
Conductivity										
Conductivity	CONDUCT	LA-519-401		657		uS/cm	1	0.50	5.0	07/27/11
Cyanide Prep										**07/19/11**
Cyanide										
Cyanide	57-12-5	LA-695-402	U	<0.22		mg/kg	1	0.22	1.1	07/19/11
Total Residue										**07/18/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		91		percent	1			07/18/11
pH on Solids										**07/18/11**
pH on Solids										
pH	PH	LA-212-411		11.1		unitless	1	0.010	0.50	07/18/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112715

QC Batch 186143
Associated Samples 112715001, 112715002, 112715003, 112715004

Test Soil And Waste pH Measurement

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #60753**							
pH	PH		7.96	unitless	99.5	98.75 - 101.25				07/18/11
DUP			**QC Sample #60754**							
			Original 112715001							
pH	PH	9.20	9.20	unitless			0.00	30		07/18/11
LCS			**QC Sample #60755**							
pH	PH		8.01	unitless	100.1	98.75 - 101.25				07/18/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112715

QC Batch 186147
Associated Samples 112715001, 112715002, 112715003, 112715004

Test Ammonia(N) by IC (S)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
DUP			**QC Sample #60766**								
			Original 112715001								
Ammonia (N)	7664-41-7	<0.073	<0.073	mg/kg			0.00	30		U	07/18/11
MS			**QC Sample #60767**								
			Original 112715001								
Ammonia (N)	7664-41-7	<0.073	12.4	mg/kg	100.8	75 - 125					07/18/11
MSD			**QC Sample #60768**								
			Original 112715001						**Paired**	**60767**	
Ammonia (N)	7664-41-7	<0.073	12.3	mg/kg	99.6	75 - 125	1.00	30			07/18/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112715

QC Batch 186149
Associated Samples 112715001, 112715002, 112715003, 112715004

Test Anions by Ion Chromatography (Solid)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #60769**							
Fluoride	16984-48-8		<0.036	ug/mL					U	07/18/11
Chloride	16887-00-6		<0.062	ug/mL					U	07/18/11
Nitrite-N	14797-55-8		<0.020	ug/mL					U	07/18/11
Bromide	24959-67-9		<0.083	ug/mL					U	07/18/11
Nitrate-N	7631-99-4		<0.019	ug/mL					U	07/18/11
Phosphate-P	14265-44-2		<0.050	ug/mL					U	07/18/11
Sulfate	14808-79-8		<0.072	ug/mL					U	07/18/11
LCS			**QC Sample #60770**							
Fluoride	16984-48-8		0.903	ug/mL	91.2	90 - 110				07/18/11
Chloride	16887-00-6		1.79	ug/mL	90.4	90 - 110				07/18/11
Nitrite-N	14797-55-8		0.941	ug/mL	96.2	90 - 110				07/18/11
Bromide	24959-67-9		3.83	ug/mL	97.7	90 - 110				07/18/11
Nitrate-N	7631-99-4		0.869	ug/mL	98.1	90 - 110				07/18/11
Phosphate-P	14265-44-2		1.84	ug/mL	96.3	90 - 110				07/18/11
Sulfate	14808-79-8		3.59	ug/mL	91.5	90 - 110				07/18/11
MS			**QC Sample #60771**							
			Original 112715001							
Fluoride	16984-48-8	<1.9	21.4	mg/kg	85.2	80 - 120				07/18/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112715

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Chloride	16887-00-6	<3.2	46.7	mg/kg	92.8	80 - 120					07/18/11
Nitrite-N	14797-55-8	<1.0	23.7	mg/kg	95.5	80 - 120					07/18/11
Bromide	24959-67-9	<4.3	96.8	mg/kg	97.1	80 - 120					07/18/11
Nitrate-N	7631-99-4	<0.99	22.5	mg/kg	100.2	80 - 120					07/18/11
Phosphate-P	14265-44-2	<2.6	42.0	mg/kg	86.5	80 - 120					07/18/11
Sulfate	14808-79-8	<3.8	90.6	mg/kg	90.9	80 - 120					07/18/11
MSD			**QC Sample #60772**								
			Original 112715001						**Paired**	**60771**	
Fluoride	16984-48-8	<1.9	20.6	mg/kg	81.8	80 - 120	4.20	30			07/18/11
Chloride	16887-00-6	<3.2	45.3	mg/kg	90	80 - 120	3.10	30			07/18/11
Nitrite-N	14797-55-8	<1.0	23.2	mg/kg	93.4	80 - 120	2.30	30			07/18/11
Bromide	24959-67-9	<4.3	95.6	mg/kg	95.9	80 - 120	1.20	30			07/18/11
Nitrate-N	7631-99-4	<0.99	22.5	mg/kg	100	80 - 120	0.30	30			07/18/11
Phosphate-P	14265-44-2	<2.6	43.2	mg/kg	89	80 - 120	2.70	30			07/18/11
Sulfate	14808-79-8	<3.8	91.4	mg/kg	91.7	80 - 120	0.80	30			07/18/11
DUP			**QC Sample #60773**								
			Original 112715001								
Fluoride	16984-48-8	<1.9	<1.9	mg/kg			0.00	30		U	07/18/11
Chloride	16887-00-6	<3.2	<3.2	mg/kg			77.40	30	*	UX	07/18/11
Nitrite-N	14797-55-8	<1.0	<1.0	mg/kg			0.00	30		U	07/18/11
Bromide	24959-67-9	<4.3	<4.3	mg/kg			0.00	30		U	07/18/11
Nitrate-N	7631-99-4	<0.99	0.993	mg/kg			14.30	30		B	07/18/11
Phosphate-P	14265-44-2	<2.6	<2.6	mg/kg			0.00	30		U	07/18/11
Sulfate	14808-79-8	<3.8	<3.7	mg/kg			20.40	30		U	07/18/11

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112715

QC Batch 186444
Associated Samples 112715001, 112715002, 112715003, 112715004

Test Cyanide by Midi/Spectrophotometer

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #60847**								
Cyanide	57-12-5		<4.0	ug/L						U	07/19/11
LCS			**QC Sample #60849**								
Cyanide	57-12-5		51.9	mg/kg	83.8	85 - 115				X	07/19/11
MS			**QC Sample #60850**								
			Original 112630001								
Cyanide	57-12-5		1.90	mg/kg	95.6	75 - 125					07/19/11
MSD			**QC Sample #60851**								
			Original 112630001						**Paired**	**60850**	
Cyanide	57-12-5		1.96	mg/kg	98.2	75 - 125	3.20	20			07/19/11

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112715

QC Batch 186889
Associated Samples 112715001, 112715002, 112715003, 112715004

Test Conductivity

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #61546**							
Conductivity	CONDUCT		131	uS/cm	100.2	90 - 110				07/27/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

QC Batch 187052
Associated Samples 112715001, 112715002, 112715003, 112715004

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61642**						
4-Nitrophenol	100-02-7		<200	ug/kg				U	08/03/11
1,4-Dichlorobenzene	106-46-7		<200	ug/kg				U	08/03/11
Phenol	108-95-2		<200	ug/kg				U	08/03/11
1,2,4-Trichlorobenzene	120-82-1		<200	ug/kg				U	08/03/11
2,4-Dinitrotoluene	121-14-2		<200	ug/kg				U	08/03/11
Pyrene	129-00-0		<200	ug/kg				U	08/03/11
4-Chloro-3-methylphenol	59-50-7		<200	ug/kg				U	08/03/11
n-Nitroso-di-n-propylamine	621-64-7		<200	ug/kg				U	08/03/11
Acenaphthene	83-32-9		<200	ug/kg				U	08/03/11
Pentachlorophenol	87-86-5		<200	ug/kg				U	08/03/11
2-Chlorophenol	95-57-8		<200	ug/kg				U	08/03/11
4-Nitroaniline	100-01-6		<200	ug/kg				U	08/03/11
4-Bromophenyl-phenylether	101-55-3		<200	ug/kg				U	08/03/11
2,4-Dimethylphenol	105-67-9		<200	ug/kg				U	08/03/11
4-Chloroaniline	106-47-8		<300	ug/kg				U	08/03/11
Bis(1-Chloro-2-propyl)ether	108-60-1		<200	ug/kg				U	08/03/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Bis-(2-Chloroethyl) ether	111-44-4		<200	ug/kg				U	08/03/11
Bis-(2-Chloroethoxy)methane	111-91-1		<200	ug/kg				U	08/03/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		<200	ug/kg				U	08/03/11
Di-n-octylphthalate	117-84-0		<200	ug/kg				U	08/03/11
Hexachlorobenzene	118-74-1		<200	ug/kg				U	08/03/11
Anthracene	120-12-7		<200	ug/kg				U	08/03/11
2,4-Dichlorophenol	120-83-2		<200	ug/kg				U	08/03/11
Dimethylphthalate	131-11-3		<200	ug/kg				U	08/03/11
Dibenzofuran	132-64-9		<200	ug/kg				U	08/03/11
Benzo(g,h,i)perylene	191-24-2		<200	ug/kg				U	08/03/11
Indeno(1,2,3-cd)pyrene	193-39-5		<200	ug/kg				U	08/03/11
Benzo(b)fluoranthene	205-99-2		<200	ug/kg				U	08/03/11
Fluoranthene	206-44-0		<200	ug/kg				U	08/03/11
Benzo(k)fluoranthene	207-08-9		<200	ug/kg				U	08/03/11
Acenaphthylene	208-96-8		<200	ug/kg				U	08/03/11
Chrysene	218-01-9		<200	ug/kg				U	08/03/11
Benzo(a)pyrene	50-32-8		<200	ug/kg				U	08/03/11
2,4-Dinitrophenol	51-28-5		<200	ug/kg				U	08/03/11
Dibenzo(a,h)anthracene	53-70-3		<200	ug/kg				U	08/03/11
4,6-Dinitro-2-methylphenol	534-52-1		<200	ug/kg				U	08/03/11
1,3-Dichlorobenzene	541-73-1		<200	ug/kg				U	08/03/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Benzo(a)anthracene	56-55-3		<200	ug/kg				U	08/03/11
2,6-Dinitrotoluene	606-20-2		<200	ug/kg				U	08/03/11
4-Chlorophenyl-phenylether	7005-72-3		<200	ug/kg				U	08/03/11
Hexachlorocyclopentadiene	77-47-4		<200	ug/kg				U	08/03/11
Isophorone	78-59-1		<200	ug/kg				U	08/03/11
Diethyl phthalate	84-66-2		<200	ug/kg				U	08/03/11
Di-n-butylphthalate	84-74-2		<200	ug/kg				U	08/03/11
Phenanthrene	85-01-8		<200	ug/kg				U	08/03/11
Butylbenzylphthalate	85-68-7		<200	ug/kg				U	08/03/11
n-Nitrosodiphenylamine	86-30-6		<200	ug/kg				U	08/03/11
Fluorene	86-73-7		<200	ug/kg				U	08/03/11
Carbazole	86-74-8		<200	ug/kg				U	08/03/11
Hexachlorobutadiene	87-68-3		<200	ug/kg				U	08/03/11
2-Nitroaniline	88-74-4		<200	ug/kg				U	08/03/11
2-Nitrophenol	88-75-5		<200	ug/kg				U	08/03/11
Naphthalene	91-20-3		<200	ug/kg				U	08/03/11
2-Methylnaphthalene	91-57-6		<200	ug/kg				U	08/03/11
2-Chloronaphthalene	91-58-7		<200	ug/kg				U	08/03/11
3,3-Dichlorobenzidine	91-94-1		<200	ug/kg				U	08/03/11
2-Methylphenol	95-48-7		<200	ug/kg				U	08/03/11
1,2-Dichlorobenzene	95-50-1		<200	ug/kg				U	08/03/11
2,4,5-Trichlorophenol	95-95-4		<200	ug/kg				U	08/03/11
Nitrobenzene	98-95-3		<200	ug/kg				U	08/03/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
3-Nitroaniline	99-09-2		<200	ug/kg					U	08/03/11
3 & 4 Methylphenol, Total	65794-96-9		<200	ug/kg					U	08/03/11
Hexachloroethane	67-72-1		<200	ug/kg					U	08/03/11
2,4,6-Trichlorophenol	88-06-2		<200	ug/kg					U	08/03/11
n-Decane	124-18-5		<200	ug/kg					U	08/03/11
n-Dodecane	112-40-3		<300	ug/kg					U	08/03/11
Benzyl alcohol	100-51-6		<200	ug/kg					U	08/03/11
2-Butoxyethanol	111-76-2		<200	ug/kg					U	08/03/11
Tributyl phosphate	126-73-8		<200	ug/kg					U	08/03/11
2-Naphthylamine	91-59-8		<200	ug/kg					U	08/03/11
Cyclohexanone	108-94-1		<200	ug/kg					U	08/03/11
Pyridine	110-86-1		<200	ug/kg					U	08/03/11
1,2,4-Trimethylbenzene	95-63-6		<200	ug/kg					U	08/03/11
Benzoic Acid	65-85-0		<200	ug/kg					U	08/03/11
LCS			**QC Sample #61643**							
4-Nitrophenol	100-02-7		4600	ug/kg	76	49 - 128				08/03/11
1,4-Dichlorobenzene	106-46-7		3700	ug/kg	91.9	71 - 122				08/03/11
Phenol	108-95-2		5600	ug/kg	93	72 - 123				08/03/11
1,2,4-Trichlorobenzene	120-82-1		5200	ug/kg	86.7	73 - 127				08/03/11
2,4-Dinitrotoluene	121-14-2		5400	ug/kg	90.2	68 - 121				08/03/11
Pyrene	129-00-0		5800	ug/kg	96.9	75 - 137				08/03/11
4-Chloro-3-methylphenol	59-50-7		5300	ug/kg	89	69 - 127				08/03/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Nitroso-di-n-propylamine	621-64-7		5600	ug/kg	94.1	73 - 125				08/03/11
Acenaphthene	83-32-9		5600	ug/kg	93.9	73 - 122				08/03/11
Pentachlorophenol	87-86-5		4100	ug/kg	67.7	42 - 132				08/03/11
2-Chlorophenol	95-57-8		5400	ug/kg	90	71 - 123				08/03/11
2-Butoxyethanol	111-76-2		5600	ug/kg	92.7	50 - 140				08/03/11
Benzyl alcohol	100-51-6		5800	ug/kg	96.6	50 - 140				08/03/11
2-Methylphenol	95-48-7		5700	ug/kg	95.6	50 - 140				08/03/11
Hexachloroethane	67-72-1		5100	ug/kg	85.1	50 - 140				08/03/11
2-Nitrophenol	88-75-5		5400	ug/kg	90.8	50 - 140				08/03/11
2,4-Dimethylphenol	105-67-9		5600	ug/kg	93.5	50 - 140				08/03/11
2,4-Dichlorophenol	120-83-2		5200	ug/kg	87.1	50 - 140				08/03/11
n-Dodecane	112-40-3		6000	ug/kg	99.9	50 - 140				08/03/11
Naphthalene	91-20-3		5500	ug/kg	91.4	50 - 140				08/03/11
2-Nitroaniline	88-74-4		5600	ug/kg	93.8	50 - 140				08/03/11
Dibenzofuran	132-64-9		5600	ug/kg	94	50 - 140				08/03/11
Fluorene	86-73-7		5700	ug/kg	94.4	50 - 140				08/03/11
Tributyl phosphate	126-73-8		5200	ug/kg	87.4	50 - 140				08/03/11
Hexachlorobenzene	118-74-1		5700	ug/kg	94.3	50 - 140				08/03/11
Anthracene	120-12-7		5600	ug/kg	93	50 - 140				08/03/11
Carbazole	86-74-8		5400	ug/kg	70.7	50 - 140				08/03/11
Di-n-butylphthalate	84-74-2		5600	ug/kg	92.7	50 - 140				08/03/11
3,3-Dichlorobenzidine	91-94-1		4200	ug/kg	69.4	50 - 140				08/03/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		5900	ug/kg	97.9	50 - 140				08/03/11
Di-n-octylphthalate	117-84-0		5600	ug/kg	93.9	50 - 140				08/03/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Benzo(a)pyrene	50-32-8		5400	ug/kg	90.6	50 - 140				08/03/11
Bis(1-Chloro-2-propyl)ether	108-60-1		5600	ug/kg	92.8	50 - 140				08/03/11
4-Chloroaniline	106-47-8		4800	ug/kg	63.1	50 - 140				08/03/11
MS			**QC Sample #61644**							
			Original 112777001							
4-Nitrophenol	100-02-7		22000	ug/kg	79.8	53 - 130				08/03/11
1,4-Dichlorobenzene	106-46-7		17000	ug/kg	91.6	75 - 117				08/03/11
Phenol	108-95-2		22000	ug/kg	81.5	76 - 123				08/03/11
1,2,4-Trichlorobenzene	120-82-1		25000	ug/kg	89.4	76 - 125				08/03/11
2,4-Dinitrotoluene	121-14-2		25000	ug/kg	91.3	73 - 120				08/03/11
Pyrene	129-00-0		21000	ug/kg	75.5	78 - 134			T	08/03/11
4-Chloro-3-methylphenol	59-50-7		24000	ug/kg	85.8	71 - 129				08/03/11
n-Nitroso-di-n-propylamine	621-64-7		23000	ug/kg	84.3	75 - 124				08/03/11
Acenaphthene	83-32-9		26000	ug/kg	94.8	75 - 121				08/03/11
Pentachlorophenol	87-86-5		21000	ug/kg	75.7	39 - 140				08/03/11
2-Chlorophenol	95-57-8		22000	ug/kg	81.1	75 - 123				08/03/11
2-Butoxyethanol	111-76-2		25000	ug/kg	91.6	50 - 140				08/03/11
Benzyl alcohol	100-51-6		24000	ug/kg	86.3	50 - 140				08/03/11
2-Methylphenol	95-48-7		23000	ug/kg	83.1	50 - 140				08/03/11
Hexachloroethane	67-72-1		23000	ug/kg	84.3	50 - 140				08/03/11
2-Nitrophenol	88-75-5		24000	ug/kg	86.7	50 - 140				08/03/11
2,4-Dimethylphenol	105-67-9		25000	ug/kg	91.7	50 - 140				08/03/11
2,4-Dichlorophenol	120-83-2		23000	ug/kg	83.1	50 - 140				08/03/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Dodecane	112-40-3		31000	ug/kg	111.3	50 - 140				08/03/11
Naphthalene	91-20-3		26000	ug/kg	93.4	50 - 140				08/03/11
2-Nitroaniline	88-74-4		25000	ug/kg	91.6	50 - 140				08/03/11
Dibenzofuran	132-64-9		26000	ug/kg	94.1	50 - 140				08/03/11
Fluorene	86-73-7		27000	ug/kg	98.1	50 - 140				08/03/11
Tributyl phosphate	126-73-8		23000	ug/kg	84.6	50 - 140				08/03/11
Hexachlorobenzene	118-74-1		25000	ug/kg	90.2	50 - 140				08/03/11
Anthracene	120-12-7		26000	ug/kg	94	50 - 140				08/03/11
Carbazole	86-74-8		27000	ug/kg	77.8	50 - 140				08/03/11
Di-n-butylphthalate	84-74-2		28000	ug/kg	103.2	50 - 140				08/03/11
3,3-Dichlorobenzidine	91-94-1		24000	ug/kg	86.1	50 - 140				08/03/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		26000	ug/kg	93.8	50 - 140				08/03/11
Di-n-octylphthalate	117-84-0		26000	ug/kg	92.7	50 - 140				08/03/11
Benzo(a)pyrene	50-32-8		25000	ug/kg	91.3	50 - 140				08/03/11
Bis(1-Chloro-2-propyl)ether	108-60-1		24000	ug/kg	86.6	50 - 140				08/03/11
4-Chloroaniline	106-47-8		22000	ug/kg	62.8	50 - 140				08/03/11
MSD			**QC Sample #61645**							
			Original 112777001						**Paired 61644**	
4-Nitrophenol	100-02-7		24000	ug/kg	88.7	53 - 130	7.20	30		08/03/11
1,4-Dichlorobenzene	106-46-7		17000	ug/kg	94.4	75 - 117	0.30	30		08/03/11
Phenol	108-95-2		25000	ug/kg	95.4	76 - 123	12.40	30		08/03/11
1,2,4-Trichlorobenzene	120-82-1		24000	ug/kg	88.3	76 - 125	4.60	30		08/03/11
2,4-Dinitrotoluene	121-14-2		25000	ug/kg	92.5	73 - 120	1.90	30		08/03/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Pyrene	129-00-0		23000	ug/kg	86	78 - 134	9.70	30		08/03/11
4-Chloro-3-methylphenol	59-50-7		25000	ug/kg	94	71 - 129	5.80	30		08/03/11
n-Nitroso-di-n-propylamine	621-64-7		26000	ug/kg	96.9	75 - 124	10.60	30		08/03/11
Acenaphthene	83-32-9		26000	ug/kg	97.8	75 - 121	0.20	30		08/03/11
Pentachlorophenol	87-86-5		23000	ug/kg	87	39 - 140	10.60	30		08/03/11
2-Chlorophenol	95-57-8		25000	ug/kg	93.3	75 - 123	10.60	30		08/03/11
2-Butoxyethanol	111-76-2		25000	ug/kg	94.2	50 - 140	0.50	30		08/03/11
Benzyl alcohol	100-51-6		27000	ug/kg	100.1	50 - 140	11.50	30		08/03/11
2-Methylphenol	95-48-7		27000	ug/kg	99.8	50 - 140	14.90	30		08/03/11
Hexachloroethane	67-72-1		23000	ug/kg	84.6	50 - 140	3.00	30		08/03/11
2-Nitrophenol	88-75-5		25000	ug/kg	92.6	50 - 140	3.20	30		08/03/11
2,4-Dimethylphenol	105-67-9		26000	ug/kg	96.5	50 - 140	1.80	30		08/03/11
2,4-Dichlorophenol	120-83-2		24000	ug/kg	91.7	50 - 140	6.40	30		08/03/11
n-Dodecane	112-40-3		26000	ug/kg	99	50 - 140	15.00	30		08/03/11
Naphthalene	91-20-3		25000	ug/kg	94.3	50 - 140	2.40	30		08/03/11
2-Nitroaniline	88-74-4		27000	ug/kg	99.8	50 - 140	5.30	30		08/03/11
Dibenzofuran	132-64-9		26000	ug/kg	96.4	50 - 140	0.90	30		08/03/11
Fluorene	86-73-7		26000	ug/kg	97.5	50 - 140	3.90	30		08/03/11
Tributyl phosphate	126-73-8		24000	ug/kg	90.5	50 - 140	3.30	30		08/03/11
Hexachlorobenzene	118-74-1		25000	ug/kg	93.6	50 - 140	0.30	30		08/03/11
Anthracene	120-12-7		26000	ug/kg	97	50 - 140	0.20	30		08/03/11
Carbazole	86-74-8		27000	ug/kg	78.7	50 - 140	2.20	30		08/03/11
Di-n-butylphthalate	84-74-2		25000	ug/kg	94.6	50 - 140	12.00	30		08/03/11
3,3-Dichlorobenzidine	91-94-1		22000	ug/kg	83.6	50 - 140	6.30	30		08/03/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Bis-(2-Ethylhexyl)phthalate	117-81-7		26000	ug/kg	96.3	50 - 140	0.70	30		08/03/11
Di-n-octylphthalate	117-84-0		27000	ug/kg	100.9	50 - 140	5.20	30		08/03/11
Benzo(a)pyrene	50-32-8		25000	ug/kg	94.7	50 - 140	0.30	30		08/03/11
Bis(1-Chloro-2-propyl)ether	108-60-1		25000	ug/kg	95.4	50 - 140	6.40	30		08/03/11
4-Chloroaniline	106-47-8		24000	ug/kg	69.7	50 - 140	7.10	30		08/03/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112715

QC Batch 186147
Associated Samples 112715001, 112715002, 112715003, 112715004

Test Ammonia(N) by IC (S)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #60764**							
Ammonia (N)	7664-41-7		<1.4E-3	mg/L					U	07/18/11
LCS			**QC Sample #60765**							
Ammonia (N)	7664-41-7		0.192	mg/L	97.7	90 - 110				07/18/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112715

QC Batch 186249
Associated Samples 112715001, 112715002, 112715003, 112715004

Test TC99 by Liquid Scintillation

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #60839**								
Technetium-99	14133-76-7		-0.30	pCi/g						U	07/20/11
LCS			**QC Sample #60840**								
Technetium-99	14133-76-7		7.9	pCi/g	94.8	80 - 120					07/20/11
DUP			**QC Sample #60841**								
			Original 112715001								
Technetium-99	14133-76-7	-0.21	-0.31	pCi/g			-40.00	30	*	U	07/20/11
MS			**QC Sample #60842**								
			Original 112715001								
Technetium-99	14133-76-7	-0.21	34	pCi/g	101.7	75 - 125					07/20/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

QC Batch 187052
Associated Samples 112715001, 112715002, 112715003, 112715004

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #112715001**							
2-Fluorophenol	367-12-4				100.8	44 - 135				08/03/11
Phenol-d5	4165-62-2				101.7	41 - 136				08/03/11
Nitrobenzene-d5	4165-60-0				99.7	53 - 129				08/03/11
2-Fluorobiphenyl	321-60-8				100.7	36 - 141				08/03/11
2,4,6-Tribromophenol	118-79-6				85.4	17 - 142				08/03/11
Terphenyl-d14	98904-43-9				111.6	61 - 142				08/03/11
SAMPLE			**Sample #112715002**							
2-Fluorophenol	367-12-4				101.5	44 - 135				08/03/11
Phenol-d5	4165-62-2				102.4	41 - 136				08/03/11
Nitrobenzene-d5	4165-60-0				100	53 - 129				08/03/11
2-Fluorobiphenyl	321-60-8				100.3	36 - 141				08/03/11
2,4,6-Tribromophenol	118-79-6				87.6	17 - 142				08/03/11
Terphenyl-d14	98904-43-9				109.2	61 - 142				08/03/11
SAMPLE			**Sample #112715003**							
2-Fluorophenol	367-12-4				99.6	44 - 135				08/03/11
Phenol-d5	4165-62-2				99.8	41 - 136				08/03/11
Nitrobenzene-d5	4165-60-0				97	53 - 129				08/03/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2-Fluorobiphenyl	321-60-8				98.9	36 - 141				08/03/11
2,4,6-Tribromophenol	118-79-6				83.5	17 - 142				08/03/11
Terphenyl-d14	98904-43-9				107	61 - 142				08/03/11
SAMPLE			**Sample #112715004**							
2-Fluorophenol	367-12-4				94.4	44 - 135				08/03/11
Phenol-d5	4165-62-2				99.4	41 - 136				08/03/11
Nitrobenzene-d5	4165-60-0				91	53 - 129				08/03/11
2-Fluorobiphenyl	321-60-8				92.9	36 - 141				08/03/11
2,4,6-Tribromophenol	118-79-6				67.7	17 - 142				08/03/11
Terphenyl-d14	98904-43-9				109.7	61 - 142				08/03/11
BLANK			**QC Sample #61642**							
2-Fluorophenol	367-12-4				99.6	44 - 135				08/03/11
Phenol-d5	4165-62-2				102.8	41 - 136				08/03/11
Nitrobenzene-d5	4165-60-0				104.5	53 - 129				08/03/11
2-Fluorobiphenyl	321-60-8				101.8	36 - 141				08/03/11
2,4,6-Tribromophenol	118-79-6				78.4	17 - 142				08/03/11
Terphenyl-d14	98904-43-9				112.1	61 - 142				08/03/11
LCS			**QC Sample #61643**							
2-Fluorophenol	367-12-4				102.6	19 - 140				08/03/11
Phenol-d5	4165-62-2				104.4	32 - 134				08/03/11
Nitrobenzene-d5	4165-60-0				103.8	60 - 122				08/03/11
2-Fluorobiphenyl	321-60-8				103.1	57 - 122				08/03/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2,4,6-Tribromophenol	118-79-6				94.3	34 - 139				08/03/11
Terphenyl-d14	98904-43-9				109.7	49 - 147				08/03/11
MS			**QC Sample #61644**							
			Original 112777001							
2-Fluorophenol	367-12-4				93.9	44 - 135				08/03/11
Phenol-d5	4165-62-2				91.4	41 - 136				08/03/11
Nitrobenzene-d5	4165-60-0				106.2	53 - 129				08/03/11
2-Fluorobiphenyl	321-60-8				100	36 - 141				08/03/11
2,4,6-Tribromophenol	118-79-6				98.7	17 - 142				08/03/11
Terphenyl-d14	98904-43-9				84.7	61 - 142				08/03/11
MSD			**QC Sample #61645**							
			Original 112777001					**Paired**	**61644**	
2-Fluorophenol	367-12-4				101.3	44 - 135	4.30			08/03/11
Phenol-d5	4165-62-2				103.7	41 - 136	9.30			08/03/11
Nitrobenzene-d5	4165-60-0				102.1	53 - 129	7.30			08/03/11
2-Fluorobiphenyl	321-60-8				104	36 - 141	0.60			08/03/11
2,4,6-Tribromophenol	118-79-6				96.4	17 - 142	5.60			08/03/11
Terphenyl-d14	98904-43-9				95.6	61 - 142	8.90			08/03/11

Tentatively Identified Peak Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112715

Peak Name		CAS #	RT	RQ	Result	Units
112715002	**B2FB29**					
Unknown Phthalate		UNKNOWN-01	18.064		1.2	ug/kg
Unknown Phthalate		UNKNOWN-02	18.118		1.1	ug/kg
Unknown Phthalate		UNKNOWN-03	18.160		.92	ug/kg
Unknown Phthalate		UNKNOWN-04	18.203		.97	ug/kg
Unknown Phthalate		UNKNOWN-05	18.240		.89	ug/kg
Phthalic acid, bis(7-m		20548-62-3	18.289		.91	ug/kg

Analytical Comment Report

Attention: Steve McKinney **Group #** WSCF112715

SVOA: Sample holding time exceeded.

112715002	**B2FB29**

SVOA: Sample holding time exceeded.

112715003	**B2FB30**

SVOA: Sample holding time exceeded.

112715004	**B2FB31**

SVOA: Sample holding time exceeded.

Quality Control Comments

Department Inorganic

60773 B2FB27(112715001DUP)

Analyte Chloride - Anions by Ion Chromatography (Solid)

[1] Duplicate is flagged for RPD out-of-limits. RPD does not apply to samples concentrations below the calibration range. RPD is calculated on measured values and not applicable for a result below the RDL.

Analytical Comment Report

Attention: Steve McKinney

Group # WSCF112715

Quality Control Comments

Department Wet Chemistry

60849 LCS for HBN 186444 [AUTO/2649]

Analyte Cyanide - Cyanide by Midi/Spectrophotometer

[1] LCS Recovery is within standard manufacturers expected limits.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 8 pages
Including cover page

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory
PO Box 650 S3-30
Richland, WA 99352

ATTN: Melissa Garrard

Customer Code: WRPS
PO #:
Work Order #: 112715
Profile #: WRPS 20111031
Proj. Mgr.:
Phone:

The following samples were received from you on 7/11/2011 3:05:00 PM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
		Tests scheduled		
112715001	B2FB27	SOIL	6/30/2011 10:42	7/11/2011 15:05
		8270SV-S; CN-S; COND-S; DRY-WEIGHT; GEA-S; IC-S; NH4IC-S; PH-S; TAB-S; TC99-S		
112715002	B2FB29	SOIL	6/30/2011 09:45	7/12/2011 15:15
		8270SV-S; CN-S; COND-S; DRY-WEIGHT; GEA-S; IC-S; NH4IC-S; PH-S; TAB-S; TC99-S		
112715003	B2FB30	SOIL	6/30/2011 10:30	7/12/2011 15:15
		8270SV-S; CN-S; COND-S; DRY-WEIGHT; GEA-S; IC-S; NH4IC-S; PH-S; TAB-S; TC99-S		
112715004	B2FB31	SOIL	7/12/2011 09:40	7/12/2011 15:15
		8270SV-S; CN-S; COND-S; DRY-WEIGHT; GEA-S; IC-S; NH4IC-S; PH-S; TAB-S; TC99-S		

Test Acronym Description

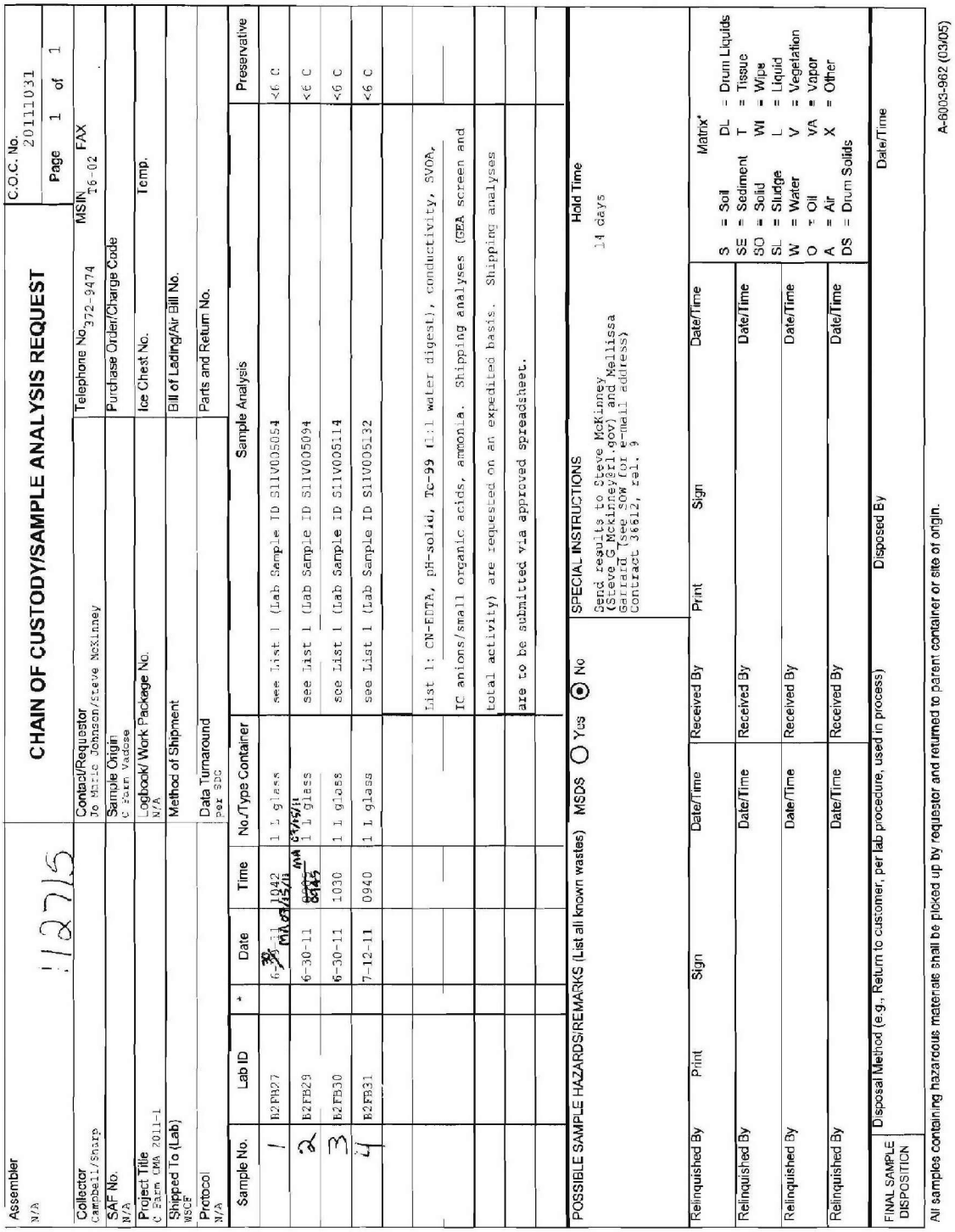
Test Acronym	Description
8270SV-S	Semivolatiles by 8270D (S)
CN-S	Cyanide (Spectroscopy) (S)
COND-S	Conductivity (S)
DRY-WEIGHT	Dry Weight as Pct Moisture
GEA-S	Gamma Energy Analysis (S)
IC-S	Anions by IC (S)
NH4IC-S	Ammonia(N) by IC (S)
PH-S	pH (S)
TAB-S	Total Alpha/Beta (S)

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

TC99-S	Technetium-99 (S)

Sample Receipt



Assembler: N/A

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

112715

C.O.C. No. 20111031

Page 1 of 1

Collector: Campbell/Sharp	Contact/Requestor: Jo Marie Johnson/Steve McKinney	Telephone No. 372-9474	MSIN 36-02 FAX
SAF No.: N/A	Sample Origin: C Farm Vadose	Purchase Order/Charge Code	
Project Title: C Farm CMA 2011-1	Logbook/ Work Package No.: N/A	Ice Chest No.	Temp.
Shipped To (Lab): WSCF	Method of Shipment	Bill of Lading/Air Bill No.	
Protocol: N/A	Data Turnaround: per SDC	Parts and Return No.	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
1	B2PH27		6-30-11	1042	1 L glass	see list 1 (Lab Sample ID S11V095054	<6 C
2	B2FB29		6-30-11	0845	1 L glass	see list 1 (Lab Sample ID S11V095094	<6 C
3	B2FB30		6-30-11	1030	1 L glass	see list 1 (Lab Sample ID S11V095114	<6 C
4	B2FB31		7-12-11	0940	1 L glass	see list 1 (Lab Sample ID S11V095132	<6 C
						list 1: CN-EDTA, pH-solid, Tc-99 (1:1 water digest), conductivity, SVOA, IC anions/small organic acids, ammonia. Shipping analyses (GEA screen and total activity) are requested on an expedited basis. Shipping analyses are to be submitted via approved spreadsheet.	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS
Send results to Steve McKinney (Steve_G_McKinney@rl.gov) and Nellissa Garrard (see SOW for e-mail address) Contract 36612, Cal. 9

Hold Time
14 days

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*: S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solids, DL = Drum Liquids, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, VA = Vapor, X = Other

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Friday, July 15, 2011 2:31:47 PM

Page 3 of 7

Washington River Protection Solutions

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

V11-001-072 | PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	DATA TURNAROUND
Campbell / Ekstrom	ANASTOS, HL	373-2616	SYDNOR, HA	C03	60 Days / 120 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	
C8104 I001	WMA C Sampling for CMS		V11-001		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
003	TFVZ-10-00004	5.7-7.7 ft	N/A	GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

5 Samples (S11C005094 - B2FB27 (... glass) / S11C005372 - B2FB27 (... glass) / S11C005055 - B2FB27 (... glass)

SAMPLE NO.		MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9Y6	A	SOIL	6/30/11	1042	✓
B2F9Y7	B	SOIL	6/30/11	1042	✓
B2F9Y8	C	SOIL	6/30/11	1042	✓

Samples 65°F
Cooler 41°F
MA 07/11/11

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: BE Ekstrom BE Ekstrom	6/29/11 1150	RECEIVED BY/STORED IN: RT Steele RTSteele ATL	6-29-11 1150
RELINQUISHED BY/REMOVED FROM: RTSteele RTSteele ATL	7-11-11 1030	RECEIVED BY/STORED IN: [illegible]	7-11-11 1030
RELINQUISHED BY/REMOVED FROM: [illegible]	7-11-11 [illegible]	RECEIVED BY/STORED IN: [illegible]	7-11-11 [illegible]
RELINQUISHED BY/REMOVED FROM: K Baker	7/11/11 1350	RECEIVED BY/STORED IN: Leslie DIAZ	7-11-11 1350
RELINQUISHED BY/REMOVED FROM: Leslie DIAZ	7/11/11 1505	RECEIVED BY/STORED IN: [illegible]	7-11-11 [illegible]
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

Billy Campbell 6-29-11
Grp# 20111030
0°C Temp blank
Rehtal

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

PRINTED ON 6/20/2011 A-6003-618 (REV 2)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V11-001-076	PAGE 1 OF 1
COLLECTOR: Ekstrom / Campbell	COMPANY CONTACT: ANASTOS, HL	TELEPHONE NO.: 373-2616	PROJECT COORDINATOR: SYDNOR, HA	PRICE CODE: C03	DATA TURNAROUND: 60 Days / 120 Days
SAMPLING LOCATION: C8104 I003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V11-001	AIR QUALITY ☐	
ICE CHEST NO.: 003	FIELD LOGBOOK NO.: IFUZ-10-000004	ACTUAL SAMPLE DEPTH: 13.5 to 15.5 ft	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

S11V005094 - B2FB29 3 Jars
5095 ✓
5373 ✓

SAMPLE NO.		MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2F9X9	A	SOIL	6/30/11	0945	✓
B2F9Y0	B	SOIL	6/30/11	0945	✓
B2F9Y1		SOIL	6/30/11	0945	✓

BE Ekst 6/30/11

Sample: 65°F
Cooler: 41°F MH 07/11/11

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: BC Ekstrom	6/30/11 1100	RECEIVED BY/STORED IN: RJSteele ATL	6-30-11 1100
RELINQUISHED BY/REMOVED FROM: RJSteele ATL	7/11/11 1030	RECEIVED BY/STORED IN: [illegible]	7/11/11 1030
RELINQUISHED BY/REMOVED FROM: [illegible]	7/11/11 [illegible]	RECEIVED BY/STORED IN: [illegible]	7/11/11 [illegible]
RELINQUISHED BY/REMOVED FROM: [illegible]	7/11/11 1350	RECEIVED BY/STORED IN: Leslie Diaz	7/11/11 1350
RELINQUISHED BY/REMOVED FROM: Leslie Diaz	7/11/11 1505	RECEIVED BY/STORED IN: [illegible]	7/11/11 1505
RELINQUISHED BY/REMOVED FROM: TA Frazier	7/12/11 1125	RECEIVED BY/STORED IN: Leslie Diaz	7/12/11 11:25
RELINQUISHED BY/REMOVED FROM: Leslie Diaz	7/12/11 1515	RECEIVED BY/STORED IN: [illegible]	7/12/11 1515

SPECIAL INSTRUCTIONS
**LABORATORY
Only samples from intervals within the top 15 ft. will be analyzed for pesticides and PCBs.
After bulk density is determined on liners, the liners and shoe material (500 ml glass jar assigned to generic testing) shall be composited.
(1) Bulk Density - D2937 (TF) {Bulk density - wet};

Bobby Campbell 6-30-11

Temp blank -1°c RJSteele

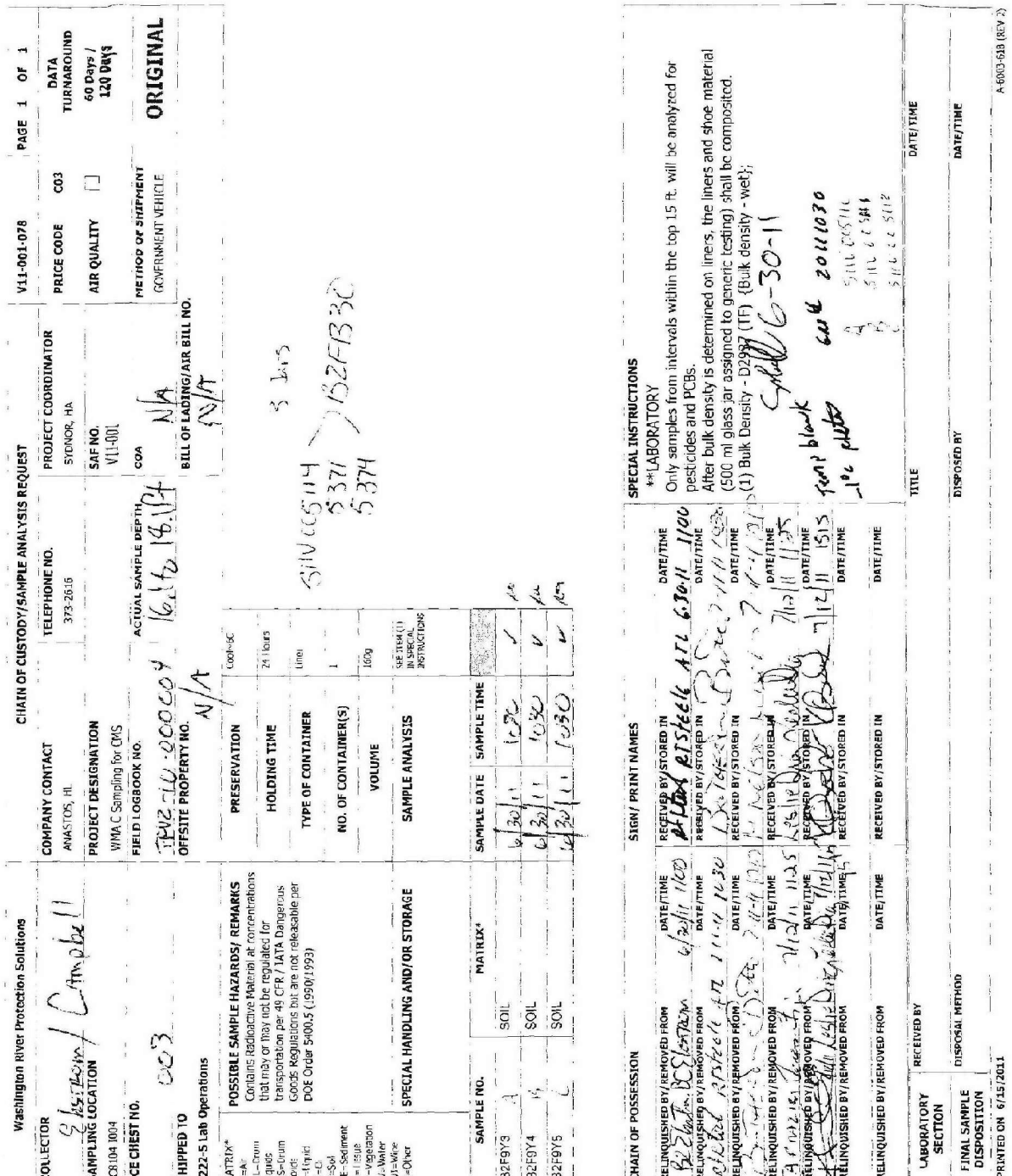
GR# 20111030
Liner A S11V005090
Liner B S11V005091

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

PRINTED ON 6/15/2011 A-6003-618 (REV 2)

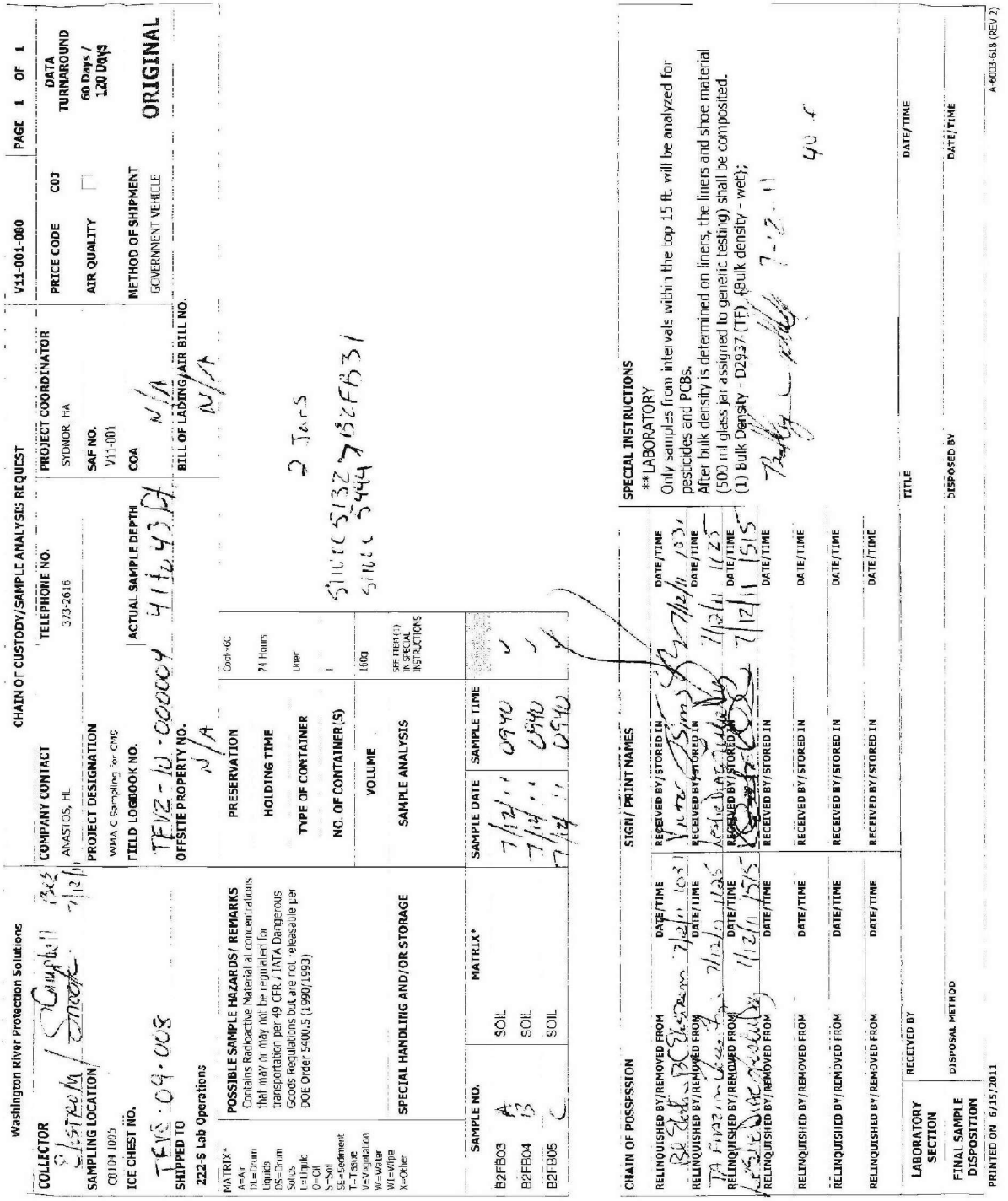
Sample Receipt

Chain of Custody



Sample Receipt

Chain of Custody



WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

August 22, 2011

Steve McKinney

Dear Steve McKinney,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF112794

Reference: (1) NA - No Customer Specification
(2) HNF-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF112794

* Cover Sheet (Attachment 1)
* Narrative (Attachment 2)
* Analytical Results (Attachment 3)
* Sample Receipt Information (Attachment 4)

Very truly yours,

Electronically signed by Joseph Hale

For Lab Manager

WSCF Analytical Lab

(509) 373-7495

Attachments 4

CC: w/Attachments
Melissa Garrard
Heather Anastos
Heather Anastos

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF112794
Data Deliverable Date 08/03/11

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
	B2FB32	112794001	SOIL	07/14/11	07/14/11

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Attachment 2
Narrative
WSCF112794

Introduction

One (1) sample was received at the WSCF Laboratory on July 14, 2011. The sample was analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *HNF-SD-CP-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Program Plan.*

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results and a comment report detailing method abnormalities as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

The following generic data qualifiers (i.e., B, D, U and J) may be applicable to this report, as appropriate

- **B** – Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **D** – Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** – Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Inorganic Comments

Ammonia – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Matrix Spike and Matrix Spike Duplicate recoveries were not within the established laboratory limits. Affected sample results in this batch were N flagged.

All other QC controls are within the established limits.

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate and Blank were analyzed with this delivery group.

All QC controls are within the established limits.

1

Attachment 2
Narrative
WSCF112794

Conductivity – Hold time requirement for this analysis was met. A Laboratory Control Sample was analyzed with this delivery group. Analytical Note(s):

All QC controls are within the established limits.

Cyanide – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- The LCS was slightly below the established laboratory limits, but was within the manufacturer's expected limits.

All other QC controls are within the established limits.

pH – The hold time requirement for this analysis was met. A Duplicate and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

All QC controls are within the established limits.

Organic Comments

Semi-VOA – The hold time requirement for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Diethyl phthalate contamination was detected in the Blank and was evaluated. Affected sample results in this batch were "J" Flagged.

All other QC controls are within the established limits.

Radiochemistry Comments

Rad Chem – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike (Matrix Spikes apply only to Technetium), Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

Rad Chem requested to be performed included: Gamma Energy Analysis, Total Alpha and Beta analysis and Technetium-99 by LSC.

- Gamma Energy Analysis:
    - Potassium-40, Radium-226, Radium-228, Actinium-228, Bismuth-212, Bismuth-214, Lead-212, Lead-214 and Thallium-208 – Detected in the blank. No flags issued.

    All other QC controls are within the established limits.

Attachment 2
Narrative
WSCF112794

- Total Alpha / Gross Beta:

  No QC associated with this analysis.

- Technetium-99:

  All QC controls are within the established limits.

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 46 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

Washington River Protection Solutions

Attention: Steve McKinney

Contract # NA
Group # WSCF112794
Report Date August 22, 2011

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Marisol Avila

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no `Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Steve McKinney
Department Inorganic

Group # WSCF112794

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187365	187366	2	BLANK	61892	BLANK		Anions by Ion Chromatography (Solid)
187365	187366	3	LCS	61893	LCS		Anions by Ion Chromatography (Solid)
187365	187366	4	MS	61894	B2FD58(112788001MS)	112788001	Anions by Ion Chromatography (Solid)
187365	187366	5	MSD	61895	B2FD58(112788001MSD)	112788001	Anions by Ion Chromatography (Solid)
187365	187366	6	DUP	61896	B2FD58(112788001DUP)	112788001	Anions by Ion Chromatography (Solid)
187365	187366	12	SAMPLE	112794001	B2FB32		Anions by Ion Chromatography (Solid)
187367	187368	3	BLANK	61898	BLANK		Ammonia(N) by IC (S)
187367	187368	4	LCS	61899	LCS		Ammonia(N) by IC (S)
187367	187368	5	DUP	61900	B2FB32(112794001DUP)	112794001	Ammonia(N) by IC (S)
187367	187368	6	MS	61901	B2FB32(112794001MS)	112794001	Ammonia(N) by IC (S)
187367	187368	7	MSD	61902	B2FB32(112794001MSD)	112794001	Ammonia(N) by IC (S)
187367	187368	8	SAMPLE	112794001	B2FB32		Ammonia(N) by IC (S)

Batch QC List

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187051	187072	1	BLANK	61638	BLANK		SW-846 8270D Semivolatiles
187051	187072	2	LCS	61639	LCS		SW-846 8270D Semivolatiles
187051	187072	3	MS	61640	B2FB34(112796001MS)	112796001	SW-846 8270D Semivolatiles
187051	187072	4	MSD	61641	B2FB34(112796001MSD)	112796001	SW-846 8270D Semivolatiles
187051	187072	5	SAMPLE	112794001	B2FB32		SW-846 8270D Semivolatiles

Batch QC List

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112794

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
186882	186898	1	SAMPLE	112794001	B2FB32		Total Alpha/Beta by Liquid Scintillation
186883	186894	1	IBLANK	61525	IBLANK		Gamma Energy Analysis-general
186883	186894	2	LCS	61526	LCS		Gamma Energy Analysis-general
186883	186894	3	DUP	61527	B2FB32(112794001DUP)	112794001	Gamma Energy Analysis-general
186883	186894	4	SAMPLE	112794001	B2FB32		Gamma Energy Analysis-general
187046	187144	1	BLANK	61619	BLANK		TC99 by Liquid Scintillation
187046	187144	2	LCS	61620	LCS		TC99 by Liquid Scintillation
187046	187144	3	SAMPLE	112794001	B2FB32		TC99 by Liquid Scintillation
187046	187144	4	DUP	61621	B2FB32(112794001DUP)	112794001	TC99 by Liquid Scintillation
187046	187144	5	MS	61622	B2FB32(112794001MS)	112794001	TC99 by Liquid Scintillation

Batch QC List

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112794

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
186889	186889	1	LCS	61546	LCS		Conductivity
186889	186889	6	SAMPLE	112794001	B2FB32		Conductivity
187045	187045	1	SAMPLE	112794001	B2FB32		Dry Weight/Percent Moisture
187050	187050	2	DUP	61634	B2D1M1(112775001DUP)	112775001	Soil And Waste pH Measurement
187050	187050	12	LCS	61635	LCS		Soil And Waste pH Measurement
187050	187050	13	SAMPLE	112794001	B2FB32		Soil And Waste pH Measurement
187050	187050	14	DUP	61636	B2FB32(112794001DUP)	112794001	Soil And Waste pH Measurement
187050	187050	17	LCS	61637	LCS		Soil And Waste pH Measurement
187153	187155	1	BLANK	61747	BLANK		Cyanide by Midi/Spectrophotometer
187153	187155	4	LCS	61749	LCS		Cyanide by Midi/Spectrophotometer
187153	187155	5	MS	61750	B2FB32(112794001MS)	112794001	Cyanide by Midi/Spectrophotometer
187153	187155	6	MSD	61751	B2FB32(112794001MSD)	112794001	Cyanide by Midi/Spectrophotometer
187153	187155	7	SAMPLE	112794001	B2FB32		Cyanide by Midi/Spectrophotometer

Method Reference

Attention Steve McKinney
Department Inorganic

Group # WSCF112794

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-503-401	Analysis of Cations by Ion Chromatography		
	HEIS	300.7_CATIONS_IC	Determination of Cations by IC
LA-533-410	Anion Analysis by Ion Chromatography		
	EPA-600/R-94-111	300.0	Determination of Inorganic Anions by Ion Chromatography
	HEIS	300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-523-456 Semivolatile Sample Analysis by SW-846 Method 8270D

EPA SW-846	8000B	Determinative Chromagraphic Separations
EPA SW-846	3510C	Separatory Funnel Liquid-Liquid Extraction
EPA SW-846	8270D	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
EPA SW-846	3545	Pressurized Fluid Extraction (PFE)
HEIS	8270_SVOA_GCMS	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry(GC/MS)

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112794

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-508-481	Gamma Energy Analysis using the Canberra Genie Ssystem		
	HEIS	GAMMA_GS	Gamma Energy Analysis
LA-508-421	Operation of the Tri-Carb Model 2500TR Liquid Scintillation Analyzer		
	HEIS	ALPHA_LSC	A/B Liquid Scintillation
	HEIS	BETA_LSC	A/B Liquid Scintillation
	HEIS	TC99_3MDSK_LSC	TC99 by Liquid Scintillation
	HEIS	TRITIUM_EIE_LSC	Tritium, by Eichrome ion exchange, LSC

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112794

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-519-401	Conductivity		
	ASTM	D1125	Standard Test Methods for Electrical Conductivity and Resistivity of Water
	EPA SW-846	9050A	Specific Conductance
	HEIS	120.1_CONDUCT	Specific Conductance
LA-212-411	Determination of Soil pH Measurement		
	HEIS	150.1_PH	pH
LA-519-412	Total Residual Percent Solids Dried at 103 - 105 Degrees C		
	EPA-600/4-79-020	160.3	Total Residue
	Standard Methods	2540B	Total Solids Dried at 103-105 C
	HEIS	%SOLIDS	Dry Weight, Percent Solids
LA-695-402	Determination of Cyanide by Mididistillation and		
	EPA	SW-846 Method 9014/9010	Determination of Cyanide by Midi-Distillation and Spectrophotometric Analysis
	SM	4500 CNE	Cyanide, Total
	HEIS	335.2_CYANIDE	Cyanide, Total

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

WSCF Analytical Results Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112794

Sample # 112794001
SAF#
Sample ID B2FB32

Matrix SOIL
Sampled 07/14/11
Received 07/14/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anion Prep										**07/28/11**
Cation by IC										
Ammonia (N)	7664-41-7	LA-503-401	BN	0.121		mg/kg	1	0.071	1.3	07/28/11
Anions by IC										**07/27/11**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	U	<1.8		mg/kg	1	1.8	3.6	07/27/11
Chloride	16887-00-6	LA-533-410	B	5.02		mg/kg	1	3.1	21	07/27/11
Nitrite-N	14797-55-8	LA-533-410	U	<1.0		mg/kg	1	1.0	5.0	07/27/11
Bromide	24959-67-9	LA-533-410	U	<4.2		mg/kg	1	4.2	24	07/27/11
Nitrate-N	7631-99-4	LA-533-410	B	1.15		mg/kg	1	0.96	5.0	07/27/11
Phosphate-P	14265-44-2	LA-533-410	U	<2.5		mg/kg	1	2.5	18	07/27/11
Sulfate	14808-79-8	LA-533-410	B	17.8		mg/kg	1	3.6	53	07/27/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Sample # 112794001
SAF#
Sample ID B2FB32

Matrix SOIL
Sampled 07/14/11
Received 07/14/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8270 Prep										**07/27/11**
SW-846 8270D										
4-Nitrophenol	100-02-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Phenol	108-95-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Pyrene	129-00-0	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Acenaphthene	83-32-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Pentachlorophenol	87-86-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Chlorophenol	95-57-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Nitroaniline	100-01-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Chloroaniline	106-47-8	LA-523-456	U	<300		ug/kg	1	300	800	07/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Sample # 112794001
SAF#
Sample ID B2FB32

Matrix SOIL
Sampled 07/14/11
Received 07/14/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Di-n-octylphthalate	117-84-0	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachlorobenzene	118-74-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Anthracene	120-12-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Dimethylphthalate	131-11-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Dibenzofuran	132-64-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Fluoranthene	206-44-0	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Acenaphthylene	208-96-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Chrysene	218-01-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11

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D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Sample # 112794001
SAF#
Sample ID B2FB32

Matrix SOIL
Sampled 07/14/11
Received 07/14/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(a)anthracene	56-55-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Isophorone	78-59-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Diethyl phthalate	84-66-2	LA-523-456	JB	240		ug/kg	1	200	800	07/28/11
Di-n-butylphthalate	84-74-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Phenanthrene	85-01-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Butylbenzylphthalate	85-68-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
n-Nitrosodiphenylamine	86-30-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Fluorene	86-73-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11

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X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Sample # 112794001
SAF#
Sample ID B2FB32

Matrix SOIL
Sampled 07/14/11
Received 07/14/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbazole	86-74-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachlorobutadiene	87-68-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Nitroaniline	88-74-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Nitrophenol	88-75-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Naphthalene	91-20-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Methylnaphthalene	91-57-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Chloronaphthalene	91-58-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Methylphenol	95-48-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Nitrobenzene	98-95-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
3-Nitroaniline	99-09-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachloroethane	67-72-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
n-Decane	124-18-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
n-Dodecane	112-40-3	LA-523-456	U	<300		ug/kg	1	300	800	07/28/11
Benzyl alcohol	100-51-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11

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U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Sample # 112794001
SAF#
Sample ID B2FB32

Matrix SOIL
Sampled 07/14/11
Received 07/14/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Butoxyethanol	111-76-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Tributyl phosphate	126-73-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Naphthylamine	91-59-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Cyclohexanone	108-94-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Pyridine	110-86-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzoic Acid	65-85-0	LA-523-456	U	<200		ug/kg	1	200	2.E3	07/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
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B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112794

Sample # 112794001
SAF#
Sample ID B2FB32

Matrix SOIL
Sampled 07/14/11
Received 07/14/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
GEA Prep										**07/27/11**
GEA										
Americium-241	14596-10-2	LA-508-481	U	-0.17	.19	pCi/g	1	0.30		07/27/11
Antimony-125	14234-35-6	LA-508-481	U	-0.022	.06	pCi/g	1	0.10		07/27/11
Barium-133	13981-41-4	LA-508-481	U	1.1E-3	.031	pCi/g	1	0.048		07/27/11
Cerium-144	14762-78-8	LA-508-481	U	0.054	.18	pCi/g	1	0.30		07/27/11
Cerium/Praseodymium -144	CE/PR-144	LA-508-481	U	0.11	.36	pCi/g	1	0.60		07/27/11
Cesium-134	13967-70-9	LA-508-481	U	0.053	.14	pCi/g	1	0.23		07/27/11
Cesium-137	10045-97-3	LA-508-481	U	-9.9E-3	.023	pCi/g	1	0.040		07/27/11
Cobalt-60	10198-40-0	LA-508-481	U	9.7E-3	.023	pCi/g	1	0.042		07/27/11
Europium-152	14683-23-9	LA-508-481	U	-0.066	.077	pCi/g	1	0.11		07/27/11
Europium-154	15585-10-1	LA-508-481	U	-0.041	.076	pCi/g	1	0.13		07/27/11
Europium-155	14391-16-3	LA-508-481	U	0.093	.089	pCi/g	1	0.16		07/27/11
Niobium-94	14681-63-1	LA-508-481	U	5.7E-3	.021	pCi/g	1	0.038		07/27/11
Potassium-40	13966-00-2	LA-508-481		31	3.8	pCi/g	1	0.36		07/27/11
Radium-226	13982-63-3	LA-508-481		0.96	.16	pCi/g	1	0.078		07/27/11
Radium-228	15262-20-1	LA-508-481		1.4	.26	pCi/g	1	0.13		07/27/11
Ruthenium-106	13967-48-1	LA-508-481	U	-0.022	.19	pCi/g	1	0.34		07/27/11
Tin-126	15832-50-5	LA-508-481		0.41	.12	pCi/g	1	0.12		07/27/11

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RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112794

Sample # 112794001
SAF#
Sample ID B2FB32

Matrix SOIL
Sampled 07/14/11
Received 07/14/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Thorium-234	15065-10-8	LA-508-481		1.8	.7	pCi/g	1	0.72		07/27/11
Uranium-235	15117-96-1	LA-508-481		0.11	.062	pCi/g	1	0.059		07/27/11
Zinc-65	13982-39-3	LA-508-481		0.11	.095	pCi/g	1	0.099		07/27/11
Actinium-228	14331-83-0	LA-508-481		1.3	.32	pCi/g	1	0.13		07/27/11
Bismuth-212	14913-49-6	LA-508-481		1.6	.59	pCi/g	1	0.55		07/27/11
Bismuth-214	14733-03-0	LA-508-481		1.3	.23	pCi/g	1	0.078		07/27/11
Lead-212	15092-94-1	LA-508-481		1.5	.19	pCi/g	1	0.071		07/27/11
Lead-214	15067-28-4	LA-508-481		1.2	.17	pCi/g	1	0.083		07/27/11
Ruthenium-103	13968-53-1	LA-508-481	U	6.3E-3	.022	pCi/g	1	0.038		07/27/11
Tin-113	13966-06-8	LA-508-481	U	0.020	.028	pCi/g	1	0.051		07/27/11
Thallium-208	14913-50-9	LA-508-481		0.54	.28	pCi/g	1	0.039		07/27/11
Beryllium-7	13966-02-4	LA-508-481	U	4.5E-3	.17	pCi/g	1	0.29		07/27/11
Cobalt-57	13981-50-5	LA-508-481	U	6.7E-4	.021	pCi/g	1	0.036		07/27/11
Manganese-54	13966-31-9	LA-508-481	U	-4.7E-4	.024	pCi/g	1	0.041		07/27/11
LSC Prep										**07/27/11**
TC99 TRI-CARB LSC										
Total Alpha	12587-46-1	LA-508-421	U	-0.60	1.4	pCi/g	1	2.3		07/27/11
Total Beta	12587-47-2	LA-508-421		7.2	2.3	pCi/g	1	2.8		07/27/11
Tc-99 Prep										**07/28/11**

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DF = Dilution Factor
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U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112794

Sample # 112794001
SAF#
Sample ID B2FB32

Matrix SOIL
Sampled 07/14/11
Received 07/14/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
TC99 TRI-CARB LSC										
Technetium-99	14133-76-7	LA-508-421		0.41	.18	pCi/g	1	0.20		07/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112794

Sample # 112794001
SAF#
Sample ID B2FB32

Matrix SOIL
Sampled 07/14/11
Received 07/14/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Conductivity										**07/27/11**
Conductivity										
Conductivity	CONDUCT	LA-519-401		96.1		uS/cm	1	0.50	5.0	07/27/11
Cyanide Prep										**07/28/11**
Cyanide										
Cyanide	57-12-5	LA-695-402	U	<0.20		mg/kg	1	0.20	1.0	07/28/11
Total Residue										**07/27/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		98		percent	1			07/27/11
pH on Solids										**07/27/11**
pH on Solids										
pH	PH	LA-212-411		9.38		unitless	1	0.010	0.50	07/27/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112794

QC Batch 186889
Associated Samples 112794001

Test Conductivity

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #61546**							
Conductivity	CONDUCT		131	uS/cm	100.2	90 - 110				07/27/11

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112794

QC Batch 187050
Associated Samples 112794001

Test Soil And Waste pH Measurement

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
DUP			**QC Sample #61634**							
			Original 112775001							
pH	PH		8.17	unitless			0.40	30		07/27/11
LCS			**QC Sample #61635**							
pH	PH		8.01	unitless	100.1	98.75 - 101.25				07/27/11
DUP			**QC Sample #61636**							
			Original 112794001							
pH	PH	9.38	9.42	unitless			0.50	30		07/27/11
LCS			**QC Sample #61637**							
pH	PH		7.99	unitless	99.9	98.75 - 101.25				07/27/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

QC Batch 187051
Associated Samples 112794001

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61638**						
4-Nitrophenol	100-02-7		<200	ug/kg				U	07/28/11
1,4-Dichlorobenzene	106-46-7		<200	ug/kg				U	07/28/11
Phenol	108-95-2		<200	ug/kg				U	07/28/11
1,2,4-Trichlorobenzene	120-82-1		<200	ug/kg				U	07/28/11
2,4-Dinitrotoluene	121-14-2		<200	ug/kg				U	07/28/11
Pyrene	129-00-0		<200	ug/kg				U	07/28/11
4-Chloro-3-methylphenol	59-50-7		<200	ug/kg				U	07/28/11
n-Nitroso-di-n-propylamine	621-64-7		<200	ug/kg				U	07/28/11
Acenaphthene	83-32-9		<200	ug/kg				U	07/28/11
Pentachlorophenol	87-86-5		<200	ug/kg				U	07/28/11
2-Chlorophenol	95-57-8		<200	ug/kg				U	07/28/11
4-Nitroaniline	100-01-6		<200	ug/kg				U	07/28/11
4-Bromophenyl-phenylether	101-55-3		<200	ug/kg				U	07/28/11
2,4-Dimethylphenol	105-67-9		<200	ug/kg				U	07/28/11
4-Chloroaniline	106-47-8		<300	ug/kg				U	07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1		<200	ug/kg				U	07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Bis-(2-Chloroethyl) ether	111-44-4		<200	ug/kg				U	07/28/11
Bis-(2-Chloroethoxy)methane	111-91-1		<200	ug/kg				U	07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		<200	ug/kg				U	07/28/11
Di-n-octylphthalate	117-84-0		<200	ug/kg				U	07/28/11
Hexachlorobenzene	118-74-1		<200	ug/kg				U	07/28/11
Anthracene	120-12-7		<200	ug/kg				U	07/28/11
2,4-Dichlorophenol	120-83-2		<200	ug/kg				U	07/28/11
Dimethylphthalate	131-11-3		<200	ug/kg				U	07/28/11
Dibenzofuran	132-64-9		<200	ug/kg				U	07/28/11
Benzo(g,h,i)perylene	191-24-2		<200	ug/kg				U	07/28/11
Indeno(1,2,3-cd)pyrene	193-39-5		<200	ug/kg				U	07/28/11
Benzo(b)fluoranthene	205-99-2		<200	ug/kg				U	07/28/11
Fluoranthene	206-44-0		<200	ug/kg				U	07/28/11
Benzo(k)fluoranthene	207-08-9		<200	ug/kg				U	07/28/11
Acenaphthylene	208-96-8		<200	ug/kg				U	07/28/11
Chrysene	218-01-9		<200	ug/kg				U	07/28/11
Benzo(a)pyrene	50-32-8		<200	ug/kg				U	07/28/11
2,4-Dinitrophenol	51-28-5		<200	ug/kg				U	07/28/11
Dibenzo(a,h)anthracene	53-70-3		<200	ug/kg				U	07/28/11
4,6-Dinitro-2-methylphenol	534-52-1		<200	ug/kg				U	07/28/11
1,3-Dichlorobenzene	541-73-1		<200	ug/kg				U	07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Benzo(a)anthracene	56-55-3		<200	ug/kg				U	07/28/11
2,6-Dinitrotoluene	606-20-2		<200	ug/kg				U	07/28/11
4-Chlorophenyl-phenylether	7005-72-3		<200	ug/kg				U	07/28/11
Hexachlorocyclopentadiene	77-47-4		<200	ug/kg				U	07/28/11
Isophorone	78-59-1		<200	ug/kg				U	07/28/11
Diethyl phthalate	84-66-2		290	ug/kg				J	07/28/11
Di-n-butylphthalate	84-74-2		<200	ug/kg				U	07/28/11
Phenanthrene	85-01-8		<200	ug/kg				U	07/28/11
Butylbenzylphthalate	85-68-7		<200	ug/kg				U	07/28/11
n-Nitrosodiphenylamine	86-30-6		<200	ug/kg				U	07/28/11
Fluorene	86-73-7		<200	ug/kg				U	07/28/11
Carbazole	86-74-8		<200	ug/kg				U	07/28/11
Hexachlorobutadiene	87-68-3		<200	ug/kg				U	07/28/11
2-Nitroaniline	88-74-4		<200	ug/kg				U	07/28/11
2-Nitrophenol	88-75-5		<200	ug/kg				U	07/28/11
Naphthalene	91-20-3		<200	ug/kg				U	07/28/11
2-Methylnaphthalene	91-57-6		<200	ug/kg				U	07/28/11
2-Chloronaphthalene	91-58-7		<200	ug/kg				U	07/28/11
3,3-Dichlorobenzidine	91-94-1		<200	ug/kg				U	07/28/11
2-Methylphenol	95-48-7		<200	ug/kg				U	07/28/11
1,2-Dichlorobenzene	95-50-1		<200	ug/kg				U	07/28/11
2,4,5-Trichlorophenol	95-95-4		<200	ug/kg				U	07/28/11
Nitrobenzene	98-95-3		<200	ug/kg				U	07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
3-Nitroaniline	99-09-2		<200	ug/kg					U	07/28/11
3 & 4 Methylphenol, Total	65794-96-9		<200	ug/kg					U	07/28/11
Hexachloroethane	67-72-1		<200	ug/kg					U	07/28/11
2,4,6-Trichlorophenol	88-06-2		<200	ug/kg					U	07/28/11
n-Decane	124-18-5		<200	ug/kg					U	07/28/11
n-Dodecane	112-40-3		<300	ug/kg					U	07/28/11
Benzyl alcohol	100-51-6		<200	ug/kg					U	07/28/11
2-Butoxyethanol	111-76-2		<200	ug/kg					U	07/28/11
Tributyl phosphate	126-73-8		<200	ug/kg					U	07/28/11
2-Naphthylamine	91-59-8		<200	ug/kg					U	07/28/11
Cyclohexanone	108-94-1		<200	ug/kg					U	07/28/11
Pyridine	110-86-1		<200	ug/kg					U	07/28/11
1,2,4-Trimethylbenzene	95-63-6		<200	ug/kg					U	07/28/11
Benzoic Acid	65-85-0		<200	ug/kg					U	07/28/11
LCS			**QC Sample #61639**							
4-Nitrophenol	100-02-7		5100	ug/kg	85.8	49 - 128				07/28/11
1,4-Dichlorobenzene	106-46-7		4100	ug/kg	101.4	71 - 122				07/28/11
Phenol	108-95-2		6100	ug/kg	101.1	72 - 123				07/28/11
1,2,4-Trichlorobenzene	120-82-1		5800	ug/kg	96.7	73 - 127				07/28/11
2,4-Dinitrotoluene	121-14-2		5900	ug/kg	98.2	68 - 121				07/28/11
Pyrene	129-00-0		6500	ug/kg	107.7	75 - 137				07/28/11
4-Chloro-3-methylphenol	59-50-7		6000	ug/kg	100.4	69 - 127				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Nitroso-di-n-propylamine	621-64-7		6300	ug/kg	104.9	73 - 125				07/28/11
Acenaphthene	83-32-9		6200	ug/kg	102.8	73 - 122				07/28/11
Pentachlorophenol	87-86-5		5500	ug/kg	91.2	42 - 132				07/28/11
2-Chlorophenol	95-57-8		6100	ug/kg	101.6	71 - 123				07/28/11
2-Butoxyethanol	111-76-2		5900	ug/kg	98.2	50 - 140				07/28/11
Benzyl alcohol	100-51-6		6300	ug/kg	104.9	50 - 140				07/28/11
2-Methylphenol	95-48-7		6100	ug/kg	102.5	50 - 140				07/28/11
Hexachloroethane	67-72-1		5600	ug/kg	92.7	50 - 140				07/28/11
2-Nitrophenol	88-75-5		6100	ug/kg	101.7	50 - 140				07/28/11
2,4-Dimethylphenol	105-67-9		6200	ug/kg	103.5	50 - 140				07/28/11
2,4-Dichlorophenol	120-83-2		5900	ug/kg	99	50 - 140				07/28/11
n-Dodecane	112-40-3		6500	ug/kg	108.2	50 - 140				07/28/11
Naphthalene	91-20-3		6100	ug/kg	101.3	50 - 140				07/28/11
2-Nitroaniline	88-74-4		6300	ug/kg	104.3	50 - 140				07/28/11
Dibenzofuran	132-64-9		6200	ug/kg	102.6	50 - 140				07/28/11
Fluorene	86-73-7		6200	ug/kg	104	50 - 140				07/28/11
Tributyl phosphate	126-73-8		6100	ug/kg	100.9	50 - 140				07/28/11
Hexachlorobenzene	118-74-1		6300	ug/kg	104.4	50 - 140				07/28/11
Anthracene	120-12-7		6200	ug/kg	102.6	50 - 140				07/28/11
Carbazole	86-74-8		6200	ug/kg	81	50 - 140				07/28/11
Di-n-butylphthalate	84-74-2		6300	ug/kg	104.2	50 - 140				07/28/11
3,3-Dichlorobenzidine	91-94-1		5200	ug/kg	86.3	50 - 140				07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		6500	ug/kg	107.8	50 - 140				07/28/11
Di-n-octylphthalate	117-84-0		6200	ug/kg	104	50 - 140				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Benzo(a)pyrene	50-32-8		6100	ug/kg	102.5	50 - 140				07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1		6300	ug/kg	104.4	50 - 140				07/28/11
4-Chloroaniline	106-47-8		5900	ug/kg	77.1	50 - 140				07/28/11
MS			**QC Sample #61640**							
			Original 112796001							
4-Nitrophenol	100-02-7		19000	ug/kg	69.4	53 - 130				07/28/11
1,4-Dichlorobenzene	106-46-7		18000	ug/kg	97.4	75 - 117				07/28/11
Phenol	108-95-2		26000	ug/kg	95.7	76 - 123				07/28/11
1,2,4-Trichlorobenzene	120-82-1		25000	ug/kg	92.3	76 - 125				07/28/11
2,4-Dinitrotoluene	121-14-2		25000	ug/kg	93.9	73 - 120				07/28/11
Pyrene	129-00-0		30000	ug/kg	110.2	78 - 134				07/28/11
4-Chloro-3-methylphenol	59-50-7		26000	ug/kg	94.5	71 - 129				07/28/11
n-Nitroso-di-n-propylamine	621-64-7		26000	ug/kg	97	75 - 124				07/28/11
Acenaphthene	83-32-9		26000	ug/kg	97.7	75 - 121				07/28/11
Pentachlorophenol	87-86-5		21000	ug/kg	77.6	39 - 140				07/28/11
2-Chlorophenol	95-57-8		26000	ug/kg	95.5	75 - 123				07/28/11
2-Butoxyethanol	111-76-2		26000	ug/kg	95.6	50 - 140				07/28/11
Benzyl alcohol	100-51-6		24000	ug/kg	88.8	50 - 140				07/28/11
2-Methylphenol	95-48-7		27000	ug/kg	100	50 - 140				07/28/11
Hexachloroethane	67-72-1		23000	ug/kg	86.2	50 - 140				07/28/11
2-Nitrophenol	88-75-5		26000	ug/kg	94.9	50 - 140				07/28/11
2,4-Dimethylphenol	105-67-9		26000	ug/kg	97.9	50 - 140				07/28/11
2,4-Dichlorophenol	120-83-2		25000	ug/kg	92.8	50 - 140				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Dodecane	112-40-3		28000	ug/kg	104.3	50 - 140				07/28/11
Naphthalene	91-20-3		26000	ug/kg	96	50 - 140				07/28/11
2-Nitroaniline	88-74-4		26000	ug/kg	97.1	50 - 140				07/28/11
Dibenzofuran	132-64-9		27000	ug/kg	98.4	50 - 140				07/28/11
Fluorene	86-73-7		27000	ug/kg	99.1	50 - 140				07/28/11
Tributyl phosphate	126-73-8		26000	ug/kg	96.6	50 - 140				07/28/11
Hexachlorobenzene	118-74-1		27000	ug/kg	99.5	50 - 140				07/28/11
Anthracene	120-12-7		26000	ug/kg	97.2	50 - 140				07/28/11
Carbazole	86-74-8		25000	ug/kg	73.9	50 - 140				07/28/11
Di-n-butylphthalate	84-74-2		27000	ug/kg	99.4	50 - 140				07/28/11
3,3-Dichlorobenzidine	91-94-1		20000	ug/kg	75.7	50 - 140				07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		29000	ug/kg	105.7	50 - 140				07/28/11
Di-n-octylphthalate	117-84-0		28000	ug/kg	102.8	50 - 140				07/28/11
Benzo(a)pyrene	50-32-8		28000	ug/kg	104.2	50 - 140				07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1		27000	ug/kg	99.5	50 - 140				07/28/11
4-Chloroaniline	106-47-8		25000	ug/kg	72.5	50 - 140				07/28/11
MSD			**QC Sample #61641**							
			Original 112796001						**Paired 61640**	
4-Nitrophenol	100-02-7		18000	ug/kg	63.4	53 - 130	6.70	30		07/28/11
1,4-Dichlorobenzene	106-46-7		16000	ug/kg	87.2	75 - 117	8.70	30		07/28/11
Phenol	108-95-2		24000	ug/kg	86.3	76 - 123	8.00	30		07/28/11
1,2,4-Trichlorobenzene	120-82-1		23000	ug/kg	83.4	76 - 125	7.70	30		07/28/11
2,4-Dinitrotoluene	121-14-2		22000	ug/kg	80.7	73 - 120	12.70	30		07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Pyrene	129-00-0		26000	ug/kg	92.3	78 - 134	15.30	30		07/28/11
4-Chloro-3-methylphenol	59-50-7		24000	ug/kg	85.2	71 - 129	8.10	30		07/28/11
n-Nitroso-di-n-propylamine	621-64-7		24000	ug/kg	87.2	75 - 124	8.30	30		07/28/11
Acenaphthene	83-32-9		24000	ug/kg	87.3	75 - 121	8.90	30		07/28/11
Pentachlorophenol	87-86-5		18000	ug/kg	65.4	39 - 140	14.70	30		07/28/11
2-Chlorophenol	95-57-8		24000	ug/kg	86.4	75 - 123	7.60	30		07/28/11
2-Butoxyethanol	111-76-2		23000	ug/kg	82.8	50 - 140	12.00	30		07/28/11
Benzyl alcohol	100-51-6		22000	ug/kg	77.6	50 - 140	11.20	30		07/28/11
2-Methylphenol	95-48-7		26000	ug/kg	93	50 - 140	4.90	30		07/28/11
Hexachloroethane	67-72-1		22000	ug/kg	78.1	50 - 140	7.60	30		07/28/11
2-Nitrophenol	88-75-5		24000	ug/kg	87.1	50 - 140	6.20	30		07/28/11
2,4-Dimethylphenol	105-67-9		24000	ug/kg	87.8	50 - 140	8.50	30		07/28/11
2,4-Dichlorophenol	120-83-2		23000	ug/kg	84.2	50 - 140	7.40	30		07/28/11
n-Dodecane	112-40-3		26000	ug/kg	94	50 - 140	8.10	30		07/28/11
Naphthalene	91-20-3		24000	ug/kg	85.5	50 - 140	9.20	30		07/28/11
2-Nitroaniline	88-74-4		24000	ug/kg	87.6	50 - 140	7.90	30		07/28/11
Dibenzofuran	132-64-9		24000	ug/kg	87.3	50 - 140	9.60	30		07/28/11
Fluorene	86-73-7		25000	ug/kg	89.2	50 - 140	8.10	30		07/28/11
Tributyl phosphate	126-73-8		23000	ug/kg	84.6	50 - 140	10.80	30		07/28/11
Hexachlorobenzene	118-74-1		24000	ug/kg	86.9	50 - 140	11.20	30		07/28/11
Anthracene	120-12-7		24000	ug/kg	86.5	50 - 140	9.30	30		07/28/11
Carbazole	86-74-8		23000	ug/kg	66.6	50 - 140	7.90	30		07/28/11
Di-n-butylphthalate	84-74-2		24000	ug/kg	86.7	50 - 140	11.30	30		07/28/11
3,3-Dichlorobenzidine	91-94-1		17000	ug/kg	62	50 - 140	17.50	30		07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Bis-(2-Ethylhexyl)phthalate	117-81-7		25000	ug/kg	91.3	50 - 140	12.30	30		07/28/11
Di-n-octylphthalate	117-84-0		24000	ug/kg	88.2	50 - 140	12.90	30		07/28/11
Benzo(a)pyrene	50-32-8		25000	ug/kg	88.9	50 - 140	13.50	30		07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1		24000	ug/kg	87.9	50 - 140	10.00	30		07/28/11
4-Chloroaniline	106-47-8		20000	ug/kg	58	50 - 140	19.90	30		07/28/11

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112794

QC Batch 187153
Associated Samples 112794001

Test Cyanide by Midi/Spectrophotometer

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #61747**								
Cyanide	57-12-5		<4.0	ug/L						U	07/28/11
LCS			**QC Sample #61749**								
Cyanide	57-12-5		51.2	mg/kg	94.5	85 - 115				X	07/28/11
MS			**QC Sample #61750**								
			Original 112794001								
Cyanide	57-12-5	<0.20	1.89	mg/kg	94.7	75 - 125					07/28/11
MSD			**QC Sample #61751**								
			Original 112794001						**Paired**	**61750**	
Cyanide	57-12-5	<0.20	2.03	mg/kg	102.1	75 - 125	7.30	20			07/28/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112794

QC Batch 187365
Associated Samples 112794001

Test Anions by Ion Chromatography (Solid)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61892**							
Fluoride	16984-48-8		<0.036	ug/mL					U	07/27/11
Chloride	16887-00-6		<0.062	ug/mL					U	07/27/11
Nitrite-N	14797-55-8		<0.020	ug/mL					U	07/27/11
Bromide	24959-67-9		<0.083	ug/mL					U	07/27/11
Nitrate-N	7631-99-4		<0.019	ug/mL					U	07/27/11
Phosphate-P	14265-44-2		<0.050	ug/mL					U	07/27/11
Sulfate	14808-79-8		<0.072	ug/mL					U	07/27/11
LCS			**QC Sample #61893**							
Fluoride	16984-48-8		0.971	ug/mL	98.1	90 - 110				07/27/11
Chloride	16887-00-6		1.84	ug/mL	93	90 - 110				07/27/11
Nitrite-N	14797-55-8		0.965	ug/mL	98.6	90 - 110				07/27/11
Bromide	24959-67-9		3.93	ug/mL	100.2	90 - 110				07/27/11
Nitrate-N	7631-99-4		0.892	ug/mL	100.8	90 - 110				07/27/11
Phosphate-P	14265-44-2		1.85	ug/mL	96.8	90 - 110				07/27/11
Sulfate	14808-79-8		3.71	ug/mL	94.6	90 - 110				07/27/11
MS			**QC Sample #61894**							
			Original 112788001							
Fluoride	16984-48-8		21.5	mg/kg	85.8	80 - 120				07/27/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Chloride	16887-00-6		43.9	mg/kg	87.6	80 - 120					07/27/11
Nitrite-N	14797-55-8		22.6	mg/kg	91.5	80 - 120					07/27/11
Bromide	24959-67-9		93.3	mg/kg	94.2	80 - 120					07/27/11
Nitrate-N	7631-99-4		22.4	mg/kg	100	80 - 120					07/27/11
Phosphate-P	14265-44-2		41.2	mg/kg	85.4	80 - 120					07/27/11
Sulfate	14808-79-8		89.4	mg/kg	90.2	80 - 120					07/27/11
MSD			**QC Sample #61895**								
			Original 112788001						**Paired**	**61894**	
Fluoride	16984-48-8		22.3	mg/kg	88.8	80 - 120	4.00	30			07/27/11
Chloride	16887-00-6		45.2	mg/kg	89.8	80 - 120	3.00	30			07/27/11
Nitrite-N	14797-55-8		23.6	mg/kg	95	80 - 120	4.30	30			07/27/11
Bromide	24959-67-9		97.1	mg/kg	97.5	80 - 120	4.00	30			07/27/11
Nitrate-N	7631-99-4		22.9	mg/kg	101.9	80 - 120	2.50	30			07/27/11
Phosphate-P	14265-44-2		41.9	mg/kg	86.2	80 - 120	1.50	30			07/27/11
Sulfate	14808-79-8		89.8	mg/kg	90	80 - 120	0.40	30			07/27/11
DUP			**QC Sample #61896**								
			Original 112788001								
Fluoride	16984-48-8		<2.0	mg/kg			0.00	30		U	07/27/11
Chloride	16887-00-6		<3.4	mg/kg			22.60	30		U	07/27/11
Nitrite-N	14797-55-8		<1.1	mg/kg			0.00	30		U	07/27/11
Bromide	24959-67-9		<4.5	mg/kg			0.00	30		U	07/27/11
Nitrate-N	7631-99-4		<1.0	mg/kg			12.20	30		U	07/27/11
Phosphate-P	14265-44-2		<2.7	mg/kg			200.00	30	*	UX	07/27/11
Sulfate	14808-79-8		3.96	mg/kg			2.70	30		B	07/27/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112794

QC Batch 187367
Associated Samples 112794001

Test Ammonia(N) by IC (S)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
DUP			**QC Sample #61900**								
			Original 112794001								
Ammonia (N)	7664-41-7	0.121	<0.071	mg/kg			200.00	30	*	UX	07/28/11
MS			**QC Sample #61901**								
			Original 112794001								
Ammonia (N)	7664-41-7	0.121	16.9	mg/kg	67.9	75 - 125				N	07/28/11
MSD			**QC Sample #61902**								
			Original 112794001						**Paired**	**61901**	
Ammonia (N)	7664-41-7	0.121	17.7	mg/kg	70.8	75 - 125	4.40	30		N	07/28/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112794

QC Batch 186883
Associated Samples 112794001

Test Gamma Energy Analysis-general

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
IBLANK			**QC Sample #61525**							
Americium-241	14596-10-2		-0.095	pCi/g					U	07/27/11
Antimony-125	14234-35-6		-0.014	pCi/g					U	07/27/11
Barium-133	13981-41-4		-3.7E-4	pCi/g					U	07/27/11
Cerium-144	14762-78-8		0.0080	pCi/g					U	07/27/11
Cerium/Praseodymium-144	CE/PR-144		0.016	pCi/g					U	07/27/11
Cesium-134	13967-70-9		7.8E-3	pCi/g					U	07/27/11
Cesium-137	10045-97-3		5.5E-4	pCi/g					U	07/27/11
Cobalt-60	10198-40-0		-1.5E-3	pCi/g					U	07/27/11
Europium-152	14683-23-9		-0.027	pCi/g					U	07/27/11
Europium-154	15585-10-1		-1.9E-3	pCi/g					U	07/27/11
Europium-155	14391-16-3		-0.016	pCi/g					U	07/27/11
Niobium-94	14681-63-1		-2.9E-3	pCi/g					U	07/27/11
Potassium-40	13966-00-2		0.16	pCi/g						07/27/11
Radium-226	13982-63-3		0.079	pCi/g						07/27/11
Radium-228	15262-20-1		0.068	pCi/g						07/27/11
Ruthenium-106	13967-48-1		-0.033	pCi/g					U	07/27/11
Tin-126	15832-50-5		-0.016	pCi/g					U	07/27/11
Thorium-234	15065-10-8		0.14	pCi/g					U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Uranium-235	15117-96-1		9.5E-3	pCi/g						U	07/27/11
Zinc-65	13982-39-3		-8.3E-3	pCi/g						U	07/27/11
Actinium-228	14331-83-0		0.068	pCi/g							07/27/11
Bismuth-212	14913-49-6		0.033	pCi/g						U	07/27/11
Bismuth-214	14733-03-0		0.10	pCi/g							07/27/11
Lead-212	15092-94-1		0.048	pCi/g							07/27/11
Lead-214	15067-28-4		0.060	pCi/g							07/27/11
Ruthenium-103	13968-53-1		-1.7E-3	pCi/g						U	07/27/11
Tin-113	13966-06-8		4.4E-3	pCi/g						U	07/27/11
Thallium-208	14913-50-9		0.021	pCi/g							07/27/11
Beryllium-7	13966-02-4		-9.9E-3	pCi/g						U	07/27/11
Cobalt-57	13981-50-5		2.9E-3	pCi/g						U	07/27/11
Manganese-54	13966-31-9		1.3E-3	pCi/g						U	07/27/11
LCS			**QC Sample #61526**								
Americium-241	14596-10-2		17000	pCi/sample	104.3	80 - 120					07/27/11
Cesium-137	10045-97-3		6400	pCi/sample	106.2	80 - 120					07/27/11
Cobalt-60	10198-40-0		10000	pCi/sample	103.3	80 - 120					07/27/11
DUP			**QC Sample #61527**								
			Original 112794001								
Americium-241	14596-10-2	-0.17	0.078	pCi/g			-558.80	30	*	U	07/27/11
Antimony-125	14234-35-6	-0.022	0.044	pCi/g			593.80	30	*	U	07/27/11
Barium-133	13981-41-4	1.1E-3	-5.5E-3	pCi/g			-297.60	30	*	U	07/27/11
Cerium-144	14762-78-8	0.054	0.10	pCi/g			59.60	30	*	U	07/27/11
Cerium/Praseodymium-144	CE/PR-144	0.11	0.20	pCi/g			59.60	30	*	U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit		RQ	Analyzed
Cesium-134	13967-70-9	0.053	-0.019	pCi/g		413.40	30	*	U	07/27/11
Cesium-137	10045-97-3	-9.9E-3	-8.5E-3	pCi/g		-15.80	30		U	07/27/11
Cobalt-60	10198-40-0	9.7E-3	-9.7E-4	pCi/g		244.30	30	*	U	07/27/11
Europium-152	14683-23-9	-0.066	-0.034	pCi/g		-62.30	30	*	U	07/27/11
Europium-154	15585-10-1	-0.041	0.044	pCi/g		6334.80	30	*	U	07/27/11
Europium-155	14391-16-3	0.093	0.062	pCi/g		39.70	30	*	U	07/27/11
Niobium-94	14681-63-1	5.7E-3	0.014	pCi/g		84.40	30	*	U	07/27/11
Potassium-40	13966-00-2	31	32	pCi/g		0.90	30			07/27/11
Radium-226	13982-63-3	0.96	0.94	pCi/g		2.20	30			07/27/11
Radium-228	15262-20-1	1.4	1.4	pCi/g		1.30	30			07/27/11
Ruthenium-106	13967-48-1	-0.022	-0.028	pCi/g		-25.60	30		U	07/27/11
Tin-126	15832-50-5	0.41	0.38	pCi/g		7.30	30			07/27/11
Thorium-234	15065-10-8	1.8	1.8	pCi/g		1.30	30			07/27/11
Uranium-235	15117-96-1	0.11	0.13	pCi/g		15.10	30			07/27/11
Zinc-65	13982-39-3	0.11	0.059	pCi/g		63.70	30	*	U	07/27/11
Actinium-228	14331-83-0	1.3	1.6	pCi/g		19.70	30			07/27/11
Bismuth-212	14913-49-6	1.6	1.4	pCi/g		15.60	30			07/27/11
Bismuth-214	14733-03-0	1.3	0.83	pCi/g		45.60	30	*		07/27/11
Lead-212	15092-94-1	1.5	1.6	pCi/g		4.80	30			07/27/11
Lead-214	15067-28-4	1.2	1.1	pCi/g		4.20	30			07/27/11
Ruthenium-103	13968-53-1	6.3E-3	0.014	pCi/g		74.40	30	*	U	07/27/11
Tin-113	13966-06-8	0.020	7.4E-3	pCi/g		90.00	30	*	U	07/27/11
Thallium-208	14913-50-9	0.54	0.71	pCi/g		28.00	30			07/27/11
Beryllium-7	13966-02-4	4.5E-3	-0.046	pCi/g		-243.70	30	*	U	07/27/11
Cobalt-57	13981-50-5	6.7E-4	-5.7E-3	pCi/g		-253.10	30	*	U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit		RQ	Analyzed
Manganese-54	13966-31-9	-4.7E-4	0.011	pCi/g		217.70	30	*	U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112794

QC Batch 187046
Associated Samples 112794001

Test TC99 by Liquid Scintillation

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61619**							
Technetium-99	14133-76-7		0.0	pCi/g					U	07/28/11
LCS			**QC Sample #61620**							
Technetium-99	14133-76-7		8.1	pCi/g	98.7	80 - 120				07/28/11
DUP			**QC Sample #61621**							
			Original 112794001							
Technetium-99	14133-76-7	0.41	0.41	pCi/g			0.00	30		07/28/11
MS			**QC Sample #61622**							
			Original 112794001							
Technetium-99	14133-76-7	0.41	32	pCi/g	96.1	75 - 125				07/28/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112794

QC Batch 187367
Associated Samples 112794001

Test Ammonia(N) by IC (S)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61898**							
Ammonia (N)	7664-41-7		<1.4E-3	mg/L					U	07/28/11
LCS			**QC Sample #61899**							
Ammonia (N)	7664-41-7		0.182	mg/L	91.2	90 - 110				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

QC Batch 187051
Associated Samples 112794001

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #112794001**							
2-Fluorophenol	367-12-4				70.9	44 - 135				07/28/11
Phenol-d5	4165-62-2				70.2	41 - 136				07/28/11
Nitrobenzene-d5	4165-60-0				74.1	53 - 129				07/28/11
2-Fluorobiphenyl	321-60-8				66.7	36 - 141				07/28/11
2,4,6-Tribromophenol	118-79-6				51.6	17 - 142				07/28/11
Terphenyl-d14	98904-43-9				99.1	61 - 142				07/28/11
BLANK			**QC Sample #61638**							
2-Fluorophenol	367-12-4				106.6	44 - 135				07/28/11
Phenol-d5	4165-62-2				109.6	41 - 136				07/28/11
Nitrobenzene-d5	4165-60-0				107.2	53 - 129				07/28/11
2-Fluorobiphenyl	321-60-8				109.1	36 - 141				07/28/11
2,4,6-Tribromophenol	118-79-6				87.3	17 - 142				07/28/11
Terphenyl-d14	98904-43-9				119.5	61 - 142				07/28/11
LCS			**QC Sample #61639**							
2-Fluorophenol	367-12-4				113.1	19 - 140				07/28/11
Phenol-d5	4165-62-2				114.8	32 - 134				07/28/11
Nitrobenzene-d5	4165-60-0				114.3	60 - 122				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2-Fluorobiphenyl	321-60-8				113.9	57 - 122				07/28/11
2,4,6-Tribromophenol	118-79-6				107	34 - 139				07/28/11
Terphenyl-d14	98904-43-9				120.2	49 - 147				07/28/11
MS			**QC Sample #61640**							
			Original 112796001							
2-Fluorophenol	367-12-4				105.7	44 - 135				07/28/11
Phenol-d5	4165-62-2				105	41 - 136				07/28/11
Nitrobenzene-d5	4165-60-0				106.3	53 - 129				07/28/11
2-Fluorobiphenyl	321-60-8				107.7	36 - 141				07/28/11
2,4,6-Tribromophenol	118-79-6				99.6	17 - 142				07/28/11
Terphenyl-d14	98904-43-9				122.6	61 - 142				07/28/11
MSD			**QC Sample #61641**							
			Original 112796001					**Paired**	**61640**	
2-Fluorophenol	367-12-4				94.4	44 - 135	9.00			07/28/11
Phenol-d5	4165-62-2				93.9	41 - 136	8.70			07/28/11
Nitrobenzene-d5	4165-60-0				93.3	53 - 129	10.60			07/28/11
2-Fluorobiphenyl	321-60-8				93.4	36 - 141	11.80			07/28/11
2,4,6-Tribromophenol	118-79-6				84.2	17 - 142	14.40			07/28/11
Terphenyl-d14	98904-43-9				99.7	61 - 142	18.20			07/28/11

Tentatively Identified Peak Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112794

Peak Name		CAS #	RT	RQ	Result	Units
112794001	**B2FB32**					
Harmine, ethenyl(ester		74797-84-5	15.007		1.8	ug/kg

Analytical Comment Report

Attention: Steve McKinney

Group # WSCF112794

Quality Control Comments

Department Inorganic

61896 B2FD58(112788001DUP)

Analyte Phosphate-P - Anions by Ion Chromatography (Solid)

[1] Duplicate is flagged for RPD out-of-limits. RPD does not apply to samples concentrations below the calibration range. RPD is calculated on measured values and not applicable for a result below the RDL.

61900 B2FB32(112794001DUP)

Analyte Ammonia (N) - Ammonia(N) by IC (S)

[1] Duplicate is flagged for RPD out-of-limits. RPD does not apply to samples concentrations below the calibration range. RPD is calculated on measured values and not applicable for a result below the RDL.

Analytical Comment Report

Attention: Steve McKinney

Group # WSCF112794

Quality Control Comments

Department Wet Chemistry

61749 LCS for HBN 187153 [AUTO/2668]

Analyte Cyanide - Cyanide by Midi/Spectrophotometer

[1] LCS Recovery is within standard manufacturers expected limits.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 3 pages
Including cover page

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory
PO Box 650 S3-30
Richland, WA 99352

ATTN: Melissa Garrard

Customer Code: WRPS
PO #:
Work Order #: 112794
Profile #: VADOSE 20111031-B
Proj. Mgr.:
Phone:

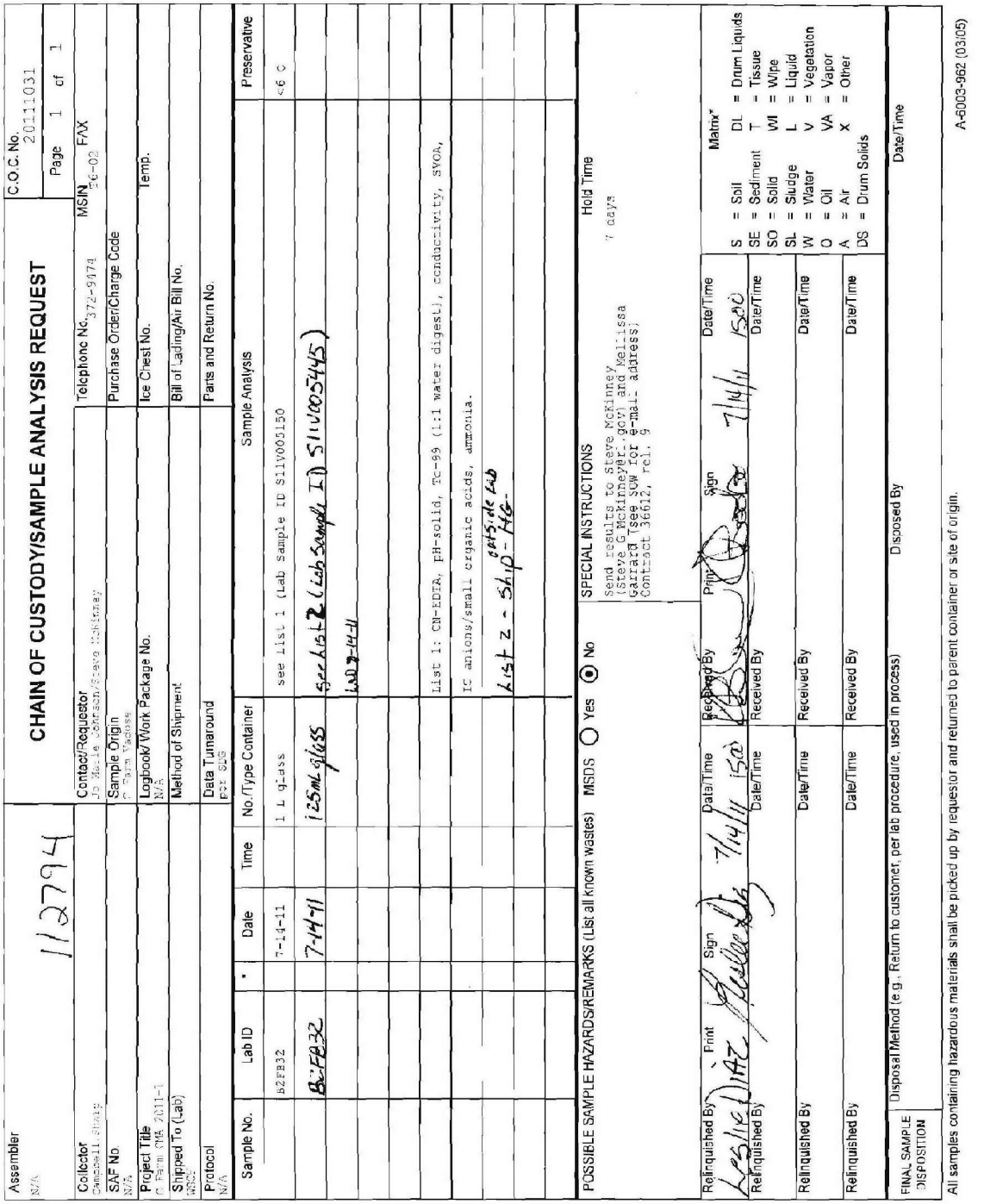
The following samples were received from you on 7/14/2011 3:00:00 PM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
		Tests scheduled		
112794001	B2FB32	SOIL	7/14/2011 09:45	7/14/2011 15:00
		8270SV-S; CN-S; COND-S; DRY-WEIGHT; GEA-S; IC-S; NH4IC-S; PH-S; TAB-S; TC99-S		

Test Acronym Description

Test Acronym	Description
8270SV-S	Semivolatiles by 8270D (S)
CN-S	Cyanide (Spectroscopy) (S)
COND-S	Conductivity (S)
DRY-WEIGHT	Dry Weight as Pct Moisture
GEA-S	Gamma Energy Analysis (S)
IC-S	Anions by IC (S)
NH4IC-S	Ammonia(N) by IC (S)
PH-S	pH (S)
TAB-S	Total Alpha/Beta (S)
TC99-S	Technetium-99 (S)

Sample Receipt



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: N/A — 112794

C.O.C. No. 20111031 — Page 1 of 1

Collector: Campbell, Shaun
SAF No.: N/A
Project Title: C Farm CHE 2011-1
Shipped To (Lab): 222-S
Protocol: N/A

Contact/Requestor: JD Wallace/Johnson/Steve McKinney
Sample Origin: C Farm Tadpole
Logbook/Work Package No.: N/A
Method of Shipment:
Data Turnaround: For SDS

Telephone No.: 372-9474 — MSIN: 56-02 — FAX
Purchase Order/Charge Code
Ice Chest No. — Temp.
Bill of Lading/Air Bill No.
Paint and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
	BZFB32		7-14-11		1 L glass	see list 1 (Lab sample ID S1lv005150	<6 C
	BZFB32		7-14-11		125mL glass	see list 2 (Lab Sample ID S1lv005145)	
						hold 7-14-11	
						List 1: CN-EDTA, pH-solid, Tc-99 (1:1 water digest), conductivity, SVOA,	
						IC anions/small organic acids, ammonia.	
						list 2 - Ship to lab ASAP-HG	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS
Send results to Steve McKinney (Steve_G_McKinney@rl.gov) and Melissa Garrard (see SOW for e-mail address) Contract 36612, rel. 9

Hold Time: 7 days

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Leslie Diaz		7/14/11 1520				7/14/11 1520
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time

Matrix*: S = Soil, DL = Drum Liquids, SE = Sediment, T = Tissue, SO = Solid, WI = Wipe, SL = Sludge, L = Liquid, W = Water, V = Vegetation, O = Oil, VA = Vapor, A = Air, X = Other, DS = Drum Solids

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

August 22, 2011

Steve McKinney

Dear Steve McKinney,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF112795

Reference: (1) NA - No Customer Specification
(2) HNF-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF112795

* Cover Sheet (Attachment 1)
* Narrative (Attachment 2)
* Analytical Results (Attachment 3)
* Sample Receipt Information (Attachment 4)

Very truly yours,

Electronically signed by Joseph Hale

For Lab Manager

WSCF Analytical Lab

(509) 373-7495

Attachments 4

CC: w/Attachments
Heather Anastos
Heather Anastos
Melissa Garrard

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF112795
Data Deliverable Date 08/03/11

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
	B2FB33	112795001	SOIL	07/15/11	07/18/11

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Attachment 2
Narrative
WSCF112795

Introduction

One (1) sample was received at the WSCF Laboratory on July 18, 2011. The sample was analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *HNF-SD-CP-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Program Plan.*

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results and a comment report detailing method abnormalities as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

The following generic data qualifiers (i.e., B, D, U and J) may be applicable to this report, as appropriate

- **B** – Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **D** – Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** – Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Inorganic Comments

Ammonia – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Matrix Spike and Matrix Spike Duplicate recoveries were not within the established laboratory limits. Affected sample results in this batch were N flagged.

All other QC controls are within the established limits.

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate and Blank were analyzed with this delivery group.

All QC controls are within the established limits.

Attachment 2
Narrative
WSCF112795

Conductivity – Hold time requirement for this analysis was met. A Laboratory Control Sample was analyzed with this delivery group. Analytical Note(s):

All QC controls are within the established limits.

Cyanide – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- The LCS was slightly below the established laboratory limits, but was within the manufacturer's expected limits.

All other QC controls are within the established limits.

pH – The hold time requirement for this analysis was met. A Duplicate and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

All QC controls are within the established limits.

Organic Comments

Semi-VOA – The hold time requirement for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Diethyl phthalate contamination was detected in the Blank and was evaluated. Affected sample results in this batch were "J" Flagged.

All other QC controls are within the established limits.

Radiochemistry Comments

Rad Chem – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike (Matrix Spikes apply only to Technetium), Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

Rad Chem requested to be performed included: Gamma Energy Analysis, Total Alpha and Beta analysis and Technetium-99 by LSC.

- Gamma Energy Analysis:
    - Potassium-40, Radium-226, Radium-228, Actinium-228, Bismuth-214, Lead-212, Lead-214 and Thallium-208 – Detected in the blank. No flags issued.

    All other QC controls are within the established limits.

Attachment 2
Narrative
WSCF112795

- Total Alpha / Gross Beta:

  No QC associated with this analysis.

- Technetium-99:

  All QC controls are within the established limits.

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 45 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

Washington River Protection Solutions

Attention: Steve McKinney

Contract # NA
Group # WSCF112795
Report Date August 22, 2011

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Marisol Avila

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no `Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Steve McKinney
Department Inorganic

Group # WSCF112795

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187365	187366	2	BLANK	61892	BLANK		Anions by Ion Chromatography (Solid)
187365	187366	3	LCS	61893	LCS		Anions by Ion Chromatography (Solid)
187365	187366	4	MS	61894	B2FD58(112788001MS)	112788001	Anions by Ion Chromatography (Solid)
187365	187366	5	MSD	61895	B2FD58(112788001MSD)	112788001	Anions by Ion Chromatography (Solid)
187365	187366	6	DUP	61896	B2FD58(112788001DUP)	112788001	Anions by Ion Chromatography (Solid)
187365	187366	13	SAMPLE	112795001	B2FB33		Anions by Ion Chromatography (Solid)
187367	187368	3	BLANK	61898	BLANK		Ammonia(N) by IC (S)
187367	187368	4	LCS	61899	LCS		Ammonia(N) by IC (S)
187367	187368	5	DUP	61900	B2FB32(112794001DUP)	112794001	Ammonia(N) by IC (S)
187367	187368	6	MS	61901	B2FB32(112794001MS)	112794001	Ammonia(N) by IC (S)
187367	187368	7	MSD	61902	B2FB32(112794001MSD)	112794001	Ammonia(N) by IC (S)
187367	187368	9	SAMPLE	112795001	B2FB33		Ammonia(N) by IC (S)

Batch QC List

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187051	187072	1	BLANK	61638	BLANK		SW-846 8270D Semivolatiles
187051	187072	2	LCS	61639	LCS		SW-846 8270D Semivolatiles
187051	187072	3	MS	61640	B2FB34(112796001MS)	112796001	SW-846 8270D Semivolatiles
187051	187072	4	MSD	61641	B2FB34(112796001MSD)	112796001	SW-846 8270D Semivolatiles
187051	187072	6	SAMPLE	112795001	B2FB33		SW-846 8270D Semivolatiles

Batch QC List

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112795

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
186875	186897	1	SAMPLE	112795001	B2FB33		Total Alpha/Beta by Liquid Scintillation
186876	186893	1	IBLANK	61515	IBLANK		Gamma Energy Analysis-general
186876	186893	2	LCS	61516	LCS		Gamma Energy Analysis-general
186876	186893	3	DUP	61517	B2FB33(112795001DUP)	112795001	Gamma Energy Analysis-general
186876	186893	4	SAMPLE	112795001	B2FB33		Gamma Energy Analysis-general
187046	187144	1	BLANK	61619	BLANK		TC99 by Liquid Scintillation
187046	187144	2	LCS	61620	LCS		TC99 by Liquid Scintillation
187046	187144	4	DUP	61621	B2FB32(112794001DUP)	112794001	TC99 by Liquid Scintillation
187046	187144	5	MS	61622	B2FB32(112794001MS)	112794001	TC99 by Liquid Scintillation
187046	187144	6	SAMPLE	112795001	B2FB33		TC99 by Liquid Scintillation

Batch QC List

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112795

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
186889	186889	1	LCS	61546	LCS		Conductivity
186889	186889	7	SAMPLE	112795001	B2FB33		Conductivity
187045	187045	2	SAMPLE	112795001	B2FB33		Dry Weight/Percent Moisture
187050	187050	12	LCS	61635	LCS		Soil And Waste pH Measurement
187050	187050	14	DUP	61636	B2FB32(112794001DUP)	112794001	Soil And Waste pH Measurement
187050	187050	15	SAMPLE	112795001	B2FB33		Soil And Waste pH Measurement
187050	187050	17	LCS	61637	LCS		Soil And Waste pH Measurement
187153	187155	1	BLANK	61747	BLANK		Cyanide by Midi/Spectrophotometer
187153	187155	4	LCS	61749	LCS		Cyanide by Midi/Spectrophotometer
187153	187155	5	MS	61750	B2FB32(112794001MS)	112794001	Cyanide by Midi/Spectrophotometer
187153	187155	6	MSD	61751	B2FB32(112794001MSD)	112794001	Cyanide by Midi/Spectrophotometer
187153	187155	8	SAMPLE	112795001	B2FB33		Cyanide by Midi/Spectrophotometer

Method Reference

Attention Steve McKinney
Department Inorganic

Group # WSCF112795

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-503-401	Analysis of Cations by Ion Chromatography		
	HEIS	300.7_CATIONS_IC	Determination of Cations by IC
LA-533-410	Anion Analysis by Ion Chromatography		
	EPA-600/R-94-111	300.0	Determination of Inorganic Anions by Ion Chromatography
	HEIS	300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-523-456 Semivolatile Sample Analysis by SW-846 Method 8270D

EPA SW-846	8000B	Determinative Chromagraphic Separations
EPA SW-846	3510C	Separatory Funnel Liquid-Liquid Extraction
EPA SW-846	8270D	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
EPA SW-846	3545	Pressurized Fluid Extraction (PFE)
HEIS	8270_SVOA_GCMS	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry(GC/MS)

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112795

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-508-481	Gamma Energy Analysis using the Canberra Genie Ssystem		
	HEIS	GAMMA_GS	Gamma Energy Analysis
LA-508-421	Operation of the Tri-Carb Model 2500TR Liquid Scintillation Analyzer		
	HEIS	ALPHA_LSC	A/B Liquid Scintillation
	HEIS	BETA_LSC	A/B Liquid Scintillation
	HEIS	TC99_3MDSK_LSC	TC99 by Liquid Scintillation
	HEIS	TRITIUM_EIE_LSC	Tritium, by Eichrome ion exchange, LSC

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112795

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-519-401	Conductivity		
	ASTM	D1125	Standard Test Methods for Electrical Conductivity and Resistivity of Water
	EPA SW-846	9050A	Specific Conductance
	HEIS	120.1_CONDUCT	Specific Conductance
LA-212-411	Determination of Soil pH Measurement		
	HEIS	150.1_PH	pH
LA-519-412	Total Residual Percent Solids Dried at 103 - 105 Degrees C		
	EPA-600/4-79-020	160.3	Total Residue
	Standard Methods	2540B	Total Solids Dried at 103-105 C
	HEIS	%SOLIDS	Dry Weight, Percent Solids
LA-695-402	Determination of Cyanide by Mididistillation and		
	EPA	SW-846 Method 9014/9010	Determination of Cyanide by Midi-Distillation and Spectrophotometric Analysis
	SM	4500 CNE	Cyanide, Total
	HEIS	335.2_CYANIDE	Cyanide, Total

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

WSCF Analytical Results Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112795

Sample # 112795001
SAF#
Sample ID B2FB33

Matrix SOIL
Sampled 07/15/11
Received 07/18/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anion Prep										**07/28/11**
Cation by IC										
Ammonia (N)	7664-41-7	LA-503-401	BN	0.518		mg/kg	1	0.073	1.4	07/28/11
Anions by IC										**07/27/11**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	U	<1.9		mg/kg	1	1.9	3.8	07/27/11
Chloride	16887-00-6	LA-533-410	B	6.98		mg/kg	1	3.2	21	07/27/11
Nitrite-N	14797-55-8	LA-533-410	U	<1.0		mg/kg	1	1.0	5.1	07/27/11
Bromide	24959-67-9	LA-533-410	U	<4.3		mg/kg	1	4.3	25	07/27/11
Nitrate-N	7631-99-4	LA-533-410	B	3.85		mg/kg	1	0.99	5.2	07/27/11
Phosphate-P	14265-44-2	LA-533-410	U	<2.6		mg/kg	1	2.6	19	07/27/11
Sulfate	14808-79-8	LA-533-410	B	32.5		mg/kg	1	3.8	55	07/27/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Sample # 112795001
SAF#
Sample ID B2FB33

Matrix SOIL
Sampled 07/15/11
Received 07/18/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8270 Prep										**07/27/11**
SW-846 8270D										
4-Nitrophenol	100-02-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Phenol	108-95-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Pyrene	129-00-0	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Acenaphthene	83-32-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Pentachlorophenol	87-86-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Chlorophenol	95-57-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Nitroaniline	100-01-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Chloroaniline	106-47-8	LA-523-456	U	<400		ug/kg	1	400	800	07/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Sample # 112795001
SAF#
Sample ID B2FB33

Matrix SOIL
Sampled 07/15/11
Received 07/18/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Di-n-octylphthalate	117-84-0	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachlorobenzene	118-74-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Anthracene	120-12-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Dimethylphthalate	131-11-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Dibenzofuran	132-64-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Fluoranthene	206-44-0	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Acenaphthylene	208-96-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Chrysene	218-01-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Sample # 112795001
SAF#
Sample ID B2FB33

Matrix SOIL
Sampled 07/15/11
Received 07/18/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(a)anthracene	56-55-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Isophorone	78-59-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Diethyl phthalate	84-66-2	LA-523-456	U	<300		ug/kg	1	300	800	07/28/11
Di-n-butylphthalate	84-74-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Phenanthrene	85-01-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Butylbenzylphthalate	85-68-7	LA-523-456	U	<300		ug/kg	1	300	800	07/28/11
n-Nitrosodiphenylamine	86-30-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Fluorene	86-73-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Sample # 112795001
SAF#
Sample ID B2FB33

Matrix SOIL
Sampled 07/15/11
Received 07/18/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbazole	86-74-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachlorobutadiene	87-68-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Nitroaniline	88-74-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Nitrophenol	88-75-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Naphthalene	91-20-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Methylnaphthalene	91-57-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Chloronaphthalene	91-58-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Methylphenol	95-48-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Nitrobenzene	98-95-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
3-Nitroaniline	99-09-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachloroethane	67-72-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
n-Decane	124-18-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
n-Dodecane	112-40-3	LA-523-456	U	<300		ug/kg	1	300	800	07/28/11
Benzyl alcohol	100-51-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11

MDL = Minimum Detection
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D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Sample # 112795001
SAF#
Sample ID B2FB33

Matrix SOIL
Sampled 07/15/11
Received 07/18/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Butoxyethanol	111-76-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Tributyl phosphate	126-73-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Naphthylamine	91-59-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Cyclohexanone	108-94-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Pyridine	110-86-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzoic Acid	65-85-0	LA-523-456	U	<200		ug/kg	1	200	2.E3	07/28/11

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TP Err = Total Propagated
DF = Dilution Factor
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D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112795

Sample # 112795001
SAF#
Sample ID B2FB33

Matrix SOIL
Sampled 07/15/11
Received 07/18/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
GEA Prep										**07/27/11**
GEA										
Americium-241	14596-10-2	LA-508-481	U	0.036	.08	pCi/g	1	0.13		07/27/11
Antimony-125	14234-35-6	LA-508-481	U	-6.1E-3	.029	pCi/g	1	0.051		07/27/11
Barium-133	13981-41-4	LA-508-481	U	-4.8E-3	.016	pCi/g	1	0.025		07/27/11
Cerium-144	14762-78-8	LA-508-481	U	-8.2E-3	.096	pCi/g	1	0.16		07/27/11
Cerium/Praseodymium -144	CE/PR-144	LA-508-481	U	-0.016	.19	pCi/g	1	0.32		07/27/11
Cesium-134	13967-70-9	LA-508-481	U	-4.9E-3	.058	pCi/g	1	0.11		07/27/11
Cesium-137	10045-97-3	LA-508-481	U	-6.3E-3	.011	pCi/g	1	0.020		07/27/11
Cobalt-60	10198-40-0	LA-508-481		0.030	.012	pCi/g	1	0.025		07/27/11
Europium-152	14683-23-9	LA-508-481	U	4.8E-3	.037	pCi/g	1	0.058		07/27/11
Europium-154	15585-10-1	LA-508-481	U	-0.047	.035	pCi/g	1	0.059		07/27/11
Europium-155	14391-16-3	LA-508-481	U	0.062	.056	pCi/g	1	0.080		07/27/11
Niobium-94	14681-63-1	LA-508-481	U	-4.4E-3	.0097	pCi/g	1	0.017		07/27/11
Potassium-40	13966-00-2	LA-508-481		20	2.3	pCi/g	1	0.18		07/27/11
Radium-226	13982-63-3	LA-508-481		0.97	.13	pCi/g	1	0.036		07/27/11
Radium-228	15262-20-1	LA-508-481		0.77	.12	pCi/g	1	0.065		07/27/11
Ruthenium-106	13967-48-1	LA-508-481	U	-0.067	.095	pCi/g	1	0.17		07/27/11
Tin-126	15832-50-5	LA-508-481		0.21	.046	pCi/g	1	0.071		07/27/11

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U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112795

Sample # 112795001
SAF#
Sample ID B2FB33

Matrix SOIL
Sampled 07/15/11
Received 07/18/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Thorium-234	15065-10-8	LA-508-481		1.9	.44	pCi/g	1	0.35		07/27/11
Uranium-235	15117-96-1	LA-508-481		0.095	.11	pCi/g	1	0.031		07/27/11
Zinc-65	13982-39-3	LA-508-481	U	0.017	.027	pCi/g	1	0.045		07/27/11
Actinium-228	14331-83-0	LA-508-481		0.91	.17	pCi/g	1	0.065		07/27/11
Bismuth-212	14913-49-6	LA-508-481		0.77	.3	pCi/g	1	0.26		07/27/11
Bismuth-214	14733-03-0	LA-508-481		1.2	.13	pCi/g	1	0.036		07/27/11
Lead-212	15092-94-1	LA-508-481		0.80	.094	pCi/g	1	0.039		07/27/11
Lead-214	15067-28-4	LA-508-481		0.96	.12	pCi/g	1	0.041		07/27/11
Ruthenium-103	13968-53-1	LA-508-481	U	5.5E-4	.01	pCi/g	1	0.018		07/27/11
Tin-113	13966-06-8	LA-508-481	U	9.1E-3	.014	pCi/g	1	0.025		07/27/11
Thallium-208	14913-50-9	LA-508-481		0.39	.12	pCi/g	1	0.019		07/27/11
Beryllium-7	13966-02-4	LA-508-481	U	-0.050	.088	pCi/g	1	0.15		07/27/11
Cobalt-57	13981-50-5	LA-508-481	U	2.7E-3	.011	pCi/g	1	0.019		07/27/11
Manganese-54	13966-31-9	LA-508-481	U	3.3E-3	.011	pCi/g	1	0.020		07/27/11
LSC Prep										**07/27/11**
TC99 TRI-CARB LSC										
Total Alpha	12587-46-1	LA-508-421	U	1.8	1.5	pCi/g	1	2.3		07/27/11
Total Beta	12587-47-2	LA-508-421		13	3.2	pCi/g	1	2.8		07/27/11
Tc-99 Prep										**07/28/11**

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U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112795

Sample # 112795001
SAF#
Sample ID B2FB33

Matrix SOIL
Sampled 07/15/11
Received 07/18/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
TC99 TRI-CARB LSC										
Technetium-99	14133-76-7	LA-508-421		0.74	.2	pCi/g	1	0.21		07/28/11

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X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112795

Sample # 112795001
SAF#
Sample ID B2FB33

Matrix SOIL
Sampled 07/15/11
Received 07/18/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Conductivity										**07/27/11**
Conductivity										
Conductivity	CONDUCT	LA-519-401		175		uS/cm	1	0.50	5.0	07/27/11
Cyanide Prep										**07/28/11**
Cyanide										
Cyanide	57-12-5	LA-695-402	U	<0.21		mg/kg	1	0.21	1.1	07/28/11
Total Residue										**07/27/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		94		percent	1			07/27/11
pH on Solids										**07/27/11**
pH on Solids										
pH	PH	LA-212-411		9.26		unitless	1	0.010	0.50	07/27/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112795

QC Batch 186889
Associated Samples 112795001

Test Conductivity

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #61546**							
Conductivity	CONDUCT		131	uS/cm	100.2	90 - 110				07/27/11

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112795

QC Batch 187050
Associated Samples 112795001

Test Soil And Waste pH Measurement

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #61635**							
pH	PH		8.01	unitless	100.1	98.75 - 101.25				07/27/11
DUP			**QC Sample #61636**							
			Original 112794001							
pH	PH		9.42	unitless			0.50	30		07/27/11
LCS			**QC Sample #61637**							
pH	PH		7.99	unitless	99.9	98.75 - 101.25				07/27/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

QC Batch 187051
Associated Samples 112795001

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61638**						
4-Nitrophenol	100-02-7		<200	ug/kg				U	07/28/11
1,4-Dichlorobenzene	106-46-7		<200	ug/kg				U	07/28/11
Phenol	108-95-2		<200	ug/kg				U	07/28/11
1,2,4-Trichlorobenzene	120-82-1		<200	ug/kg				U	07/28/11
2,4-Dinitrotoluene	121-14-2		<200	ug/kg				U	07/28/11
Pyrene	129-00-0		<200	ug/kg				U	07/28/11
4-Chloro-3-methylphenol	59-50-7		<200	ug/kg				U	07/28/11
n-Nitroso-di-n-propylamine	621-64-7		<200	ug/kg				U	07/28/11
Acenaphthene	83-32-9		<200	ug/kg				U	07/28/11
Pentachlorophenol	87-86-5		<200	ug/kg				U	07/28/11
2-Chlorophenol	95-57-8		<200	ug/kg				U	07/28/11
4-Nitroaniline	100-01-6		<200	ug/kg				U	07/28/11
4-Bromophenyl-phenylether	101-55-3		<200	ug/kg				U	07/28/11
2,4-Dimethylphenol	105-67-9		<200	ug/kg				U	07/28/11
4-Chloroaniline	106-47-8		<300	ug/kg				U	07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1		<200	ug/kg				U	07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Bis-(2-Chloroethyl) ether	111-44-4		<200	ug/kg				U	07/28/11
Bis-(2-Chloroethoxy)methane	111-91-1		<200	ug/kg				U	07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		<200	ug/kg				U	07/28/11
Di-n-octylphthalate	117-84-0		<200	ug/kg				U	07/28/11
Hexachlorobenzene	118-74-1		<200	ug/kg				U	07/28/11
Anthracene	120-12-7		<200	ug/kg				U	07/28/11
2,4-Dichlorophenol	120-83-2		<200	ug/kg				U	07/28/11
Dimethylphthalate	131-11-3		<200	ug/kg				U	07/28/11
Dibenzofuran	132-64-9		<200	ug/kg				U	07/28/11
Benzo(g,h,i)perylene	191-24-2		<200	ug/kg				U	07/28/11
Indeno(1,2,3-cd)pyrene	193-39-5		<200	ug/kg				U	07/28/11
Benzo(b)fluoranthene	205-99-2		<200	ug/kg				U	07/28/11
Fluoranthene	206-44-0		<200	ug/kg				U	07/28/11
Benzo(k)fluoranthene	207-08-9		<200	ug/kg				U	07/28/11
Acenaphthylene	208-96-8		<200	ug/kg				U	07/28/11
Chrysene	218-01-9		<200	ug/kg				U	07/28/11
Benzo(a)pyrene	50-32-8		<200	ug/kg				U	07/28/11
2,4-Dinitrophenol	51-28-5		<200	ug/kg				U	07/28/11
Dibenzo(a,h)anthracene	53-70-3		<200	ug/kg				U	07/28/11
4,6-Dinitro-2-methylphenol	534-52-1		<200	ug/kg				U	07/28/11
1,3-Dichlorobenzene	541-73-1		<200	ug/kg				U	07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Benzo(a)anthracene	56-55-3		<200	ug/kg				U	07/28/11
2,6-Dinitrotoluene	606-20-2		<200	ug/kg				U	07/28/11
4-Chlorophenyl-phenylether	7005-72-3		<200	ug/kg				U	07/28/11
Hexachlorocyclopentadiene	77-47-4		<200	ug/kg				U	07/28/11
Isophorone	78-59-1		<200	ug/kg				U	07/28/11
Diethyl phthalate	84-66-2		290	ug/kg				J	07/28/11
Di-n-butylphthalate	84-74-2		<200	ug/kg				U	07/28/11
Phenanthrene	85-01-8		<200	ug/kg				U	07/28/11
Butylbenzylphthalate	85-68-7		<200	ug/kg				U	07/28/11
n-Nitrosodiphenylamine	86-30-6		<200	ug/kg				U	07/28/11
Fluorene	86-73-7		<200	ug/kg				U	07/28/11
Carbazole	86-74-8		<200	ug/kg				U	07/28/11
Hexachlorobutadiene	87-68-3		<200	ug/kg				U	07/28/11
2-Nitroaniline	88-74-4		<200	ug/kg				U	07/28/11
2-Nitrophenol	88-75-5		<200	ug/kg				U	07/28/11
Naphthalene	91-20-3		<200	ug/kg				U	07/28/11
2-Methylnaphthalene	91-57-6		<200	ug/kg				U	07/28/11
2-Chloronaphthalene	91-58-7		<200	ug/kg				U	07/28/11
3,3-Dichlorobenzidine	91-94-1		<200	ug/kg				U	07/28/11
2-Methylphenol	95-48-7		<200	ug/kg				U	07/28/11
1,2-Dichlorobenzene	95-50-1		<200	ug/kg				U	07/28/11
2,4,5-Trichlorophenol	95-95-4		<200	ug/kg				U	07/28/11
Nitrobenzene	98-95-3		<200	ug/kg				U	07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
3-Nitroaniline	99-09-2		<200	ug/kg					U	07/28/11
3 & 4 Methylphenol, Total	65794-96-9		<200	ug/kg					U	07/28/11
Hexachloroethane	67-72-1		<200	ug/kg					U	07/28/11
2,4,6-Trichlorophenol	88-06-2		<200	ug/kg					U	07/28/11
n-Decane	124-18-5		<200	ug/kg					U	07/28/11
n-Dodecane	112-40-3		<300	ug/kg					U	07/28/11
Benzyl alcohol	100-51-6		<200	ug/kg					U	07/28/11
2-Butoxyethanol	111-76-2		<200	ug/kg					U	07/28/11
Tributyl phosphate	126-73-8		<200	ug/kg					U	07/28/11
2-Naphthylamine	91-59-8		<200	ug/kg					U	07/28/11
Cyclohexanone	108-94-1		<200	ug/kg					U	07/28/11
Pyridine	110-86-1		<200	ug/kg					U	07/28/11
1,2,4-Trimethylbenzene	95-63-6		<200	ug/kg					U	07/28/11
Benzoic Acid	65-85-0		<200	ug/kg					U	07/28/11
LCS			**QC Sample #61639**							
4-Nitrophenol	100-02-7		5100	ug/kg	85.8	49 - 128				07/28/11
1,4-Dichlorobenzene	106-46-7		4100	ug/kg	101.4	71 - 122				07/28/11
Phenol	108-95-2		6100	ug/kg	101.1	72 - 123				07/28/11
1,2,4-Trichlorobenzene	120-82-1		5800	ug/kg	96.7	73 - 127				07/28/11
2,4-Dinitrotoluene	121-14-2		5900	ug/kg	98.2	68 - 121				07/28/11
Pyrene	129-00-0		6500	ug/kg	107.7	75 - 137				07/28/11
4-Chloro-3-methylphenol	59-50-7		6000	ug/kg	100.4	69 - 127				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Nitroso-di-n-propylamine	621-64-7		6300	ug/kg	104.9	73 - 125				07/28/11
Acenaphthene	83-32-9		6200	ug/kg	102.8	73 - 122				07/28/11
Pentachlorophenol	87-86-5		5500	ug/kg	91.2	42 - 132				07/28/11
2-Chlorophenol	95-57-8		6100	ug/kg	101.6	71 - 123				07/28/11
2-Butoxyethanol	111-76-2		5900	ug/kg	98.2	50 - 140				07/28/11
Benzyl alcohol	100-51-6		6300	ug/kg	104.9	50 - 140				07/28/11
2-Methylphenol	95-48-7		6100	ug/kg	102.5	50 - 140				07/28/11
Hexachloroethane	67-72-1		5600	ug/kg	92.7	50 - 140				07/28/11
2-Nitrophenol	88-75-5		6100	ug/kg	101.7	50 - 140				07/28/11
2,4-Dimethylphenol	105-67-9		6200	ug/kg	103.5	50 - 140				07/28/11
2,4-Dichlorophenol	120-83-2		5900	ug/kg	99	50 - 140				07/28/11
n-Dodecane	112-40-3		6500	ug/kg	108.2	50 - 140				07/28/11
Naphthalene	91-20-3		6100	ug/kg	101.3	50 - 140				07/28/11
2-Nitroaniline	88-74-4		6300	ug/kg	104.3	50 - 140				07/28/11
Dibenzofuran	132-64-9		6200	ug/kg	102.6	50 - 140				07/28/11
Fluorene	86-73-7		6200	ug/kg	104	50 - 140				07/28/11
Tributyl phosphate	126-73-8		6100	ug/kg	100.9	50 - 140				07/28/11
Hexachlorobenzene	118-74-1		6300	ug/kg	104.4	50 - 140				07/28/11
Anthracene	120-12-7		6200	ug/kg	102.6	50 - 140				07/28/11
Carbazole	86-74-8		6200	ug/kg	81	50 - 140				07/28/11
Di-n-butylphthalate	84-74-2		6300	ug/kg	104.2	50 - 140				07/28/11
3,3-Dichlorobenzidine	91-94-1		5200	ug/kg	86.3	50 - 140				07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		6500	ug/kg	107.8	50 - 140				07/28/11
Di-n-octylphthalate	117-84-0		6200	ug/kg	104	50 - 140				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Benzo(a)pyrene	50-32-8		6100	ug/kg	102.5	50 - 140				07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1		6300	ug/kg	104.4	50 - 140				07/28/11
4-Chloroaniline	106-47-8		5900	ug/kg	77.1	50 - 140				07/28/11
MS			**QC Sample #61640**							
			Original 112796001							
4-Nitrophenol	100-02-7		19000	ug/kg	69.4	53 - 130				07/28/11
1,4-Dichlorobenzene	106-46-7		18000	ug/kg	97.4	75 - 117				07/28/11
Phenol	108-95-2		26000	ug/kg	95.7	76 - 123				07/28/11
1,2,4-Trichlorobenzene	120-82-1		25000	ug/kg	92.3	76 - 125				07/28/11
2,4-Dinitrotoluene	121-14-2		25000	ug/kg	93.9	73 - 120				07/28/11
Pyrene	129-00-0		30000	ug/kg	110.2	78 - 134				07/28/11
4-Chloro-3-methylphenol	59-50-7		26000	ug/kg	94.5	71 - 129				07/28/11
n-Nitroso-di-n-propylamine	621-64-7		26000	ug/kg	97	75 - 124				07/28/11
Acenaphthene	83-32-9		26000	ug/kg	97.7	75 - 121				07/28/11
Pentachlorophenol	87-86-5		21000	ug/kg	77.6	39 - 140				07/28/11
2-Chlorophenol	95-57-8		26000	ug/kg	95.5	75 - 123				07/28/11
2-Butoxyethanol	111-76-2		26000	ug/kg	95.6	50 - 140				07/28/11
Benzyl alcohol	100-51-6		24000	ug/kg	88.8	50 - 140				07/28/11
2-Methylphenol	95-48-7		27000	ug/kg	100	50 - 140				07/28/11
Hexachloroethane	67-72-1		23000	ug/kg	86.2	50 - 140				07/28/11
2-Nitrophenol	88-75-5		26000	ug/kg	94.9	50 - 140				07/28/11
2,4-Dimethylphenol	105-67-9		26000	ug/kg	97.9	50 - 140				07/28/11
2,4-Dichlorophenol	120-83-2		25000	ug/kg	92.8	50 - 140				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Dodecane	112-40-3		28000	ug/kg	104.3	50 - 140				07/28/11
Naphthalene	91-20-3		26000	ug/kg	96	50 - 140				07/28/11
2-Nitroaniline	88-74-4		26000	ug/kg	97.1	50 - 140				07/28/11
Dibenzofuran	132-64-9		27000	ug/kg	98.4	50 - 140				07/28/11
Fluorene	86-73-7		27000	ug/kg	99.1	50 - 140				07/28/11
Tributyl phosphate	126-73-8		26000	ug/kg	96.6	50 - 140				07/28/11
Hexachlorobenzene	118-74-1		27000	ug/kg	99.5	50 - 140				07/28/11
Anthracene	120-12-7		26000	ug/kg	97.2	50 - 140				07/28/11
Carbazole	86-74-8		25000	ug/kg	73.9	50 - 140				07/28/11
Di-n-butylphthalate	84-74-2		27000	ug/kg	99.4	50 - 140				07/28/11
3,3-Dichlorobenzidine	91-94-1		20000	ug/kg	75.7	50 - 140				07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		29000	ug/kg	105.7	50 - 140				07/28/11
Di-n-octylphthalate	117-84-0		28000	ug/kg	102.8	50 - 140				07/28/11
Benzo(a)pyrene	50-32-8		28000	ug/kg	104.2	50 - 140				07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1		27000	ug/kg	99.5	50 - 140				07/28/11
4-Chloroaniline	106-47-8		25000	ug/kg	72.5	50 - 140				07/28/11
MSD			**QC Sample #61641**							
			Original 112796001						**Paired 61640**	
4-Nitrophenol	100-02-7		18000	ug/kg	63.4	53 - 130	6.70	30		07/28/11
1,4-Dichlorobenzene	106-46-7		16000	ug/kg	87.2	75 - 117	8.70	30		07/28/11
Phenol	108-95-2		24000	ug/kg	86.3	76 - 123	8.00	30		07/28/11
1,2,4-Trichlorobenzene	120-82-1		23000	ug/kg	83.4	76 - 125	7.70	30		07/28/11
2,4-Dinitrotoluene	121-14-2		22000	ug/kg	80.7	73 - 120	12.70	30		07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Pyrene	129-00-0		26000	ug/kg	92.3	78 - 134	15.30	30		07/28/11
4-Chloro-3-methylphenol	59-50-7		24000	ug/kg	85.2	71 - 129	8.10	30		07/28/11
n-Nitroso-di-n-propylamine	621-64-7		24000	ug/kg	87.2	75 - 124	8.30	30		07/28/11
Acenaphthene	83-32-9		24000	ug/kg	87.3	75 - 121	8.90	30		07/28/11
Pentachlorophenol	87-86-5		18000	ug/kg	65.4	39 - 140	14.70	30		07/28/11
2-Chlorophenol	95-57-8		24000	ug/kg	86.4	75 - 123	7.60	30		07/28/11
2-Butoxyethanol	111-76-2		23000	ug/kg	82.8	50 - 140	12.00	30		07/28/11
Benzyl alcohol	100-51-6		22000	ug/kg	77.6	50 - 140	11.20	30		07/28/11
2-Methylphenol	95-48-7		26000	ug/kg	93	50 - 140	4.90	30		07/28/11
Hexachloroethane	67-72-1		22000	ug/kg	78.1	50 - 140	7.60	30		07/28/11
2-Nitrophenol	88-75-5		24000	ug/kg	87.1	50 - 140	6.20	30		07/28/11
2,4-Dimethylphenol	105-67-9		24000	ug/kg	87.8	50 - 140	8.50	30		07/28/11
2,4-Dichlorophenol	120-83-2		23000	ug/kg	84.2	50 - 140	7.40	30		07/28/11
n-Dodecane	112-40-3		26000	ug/kg	94	50 - 140	8.10	30		07/28/11
Naphthalene	91-20-3		24000	ug/kg	85.5	50 - 140	9.20	30		07/28/11
2-Nitroaniline	88-74-4		24000	ug/kg	87.6	50 - 140	7.90	30		07/28/11
Dibenzofuran	132-64-9		24000	ug/kg	87.3	50 - 140	9.60	30		07/28/11
Fluorene	86-73-7		25000	ug/kg	89.2	50 - 140	8.10	30		07/28/11
Tributyl phosphate	126-73-8		23000	ug/kg	84.6	50 - 140	10.80	30		07/28/11
Hexachlorobenzene	118-74-1		24000	ug/kg	86.9	50 - 140	11.20	30		07/28/11
Anthracene	120-12-7		24000	ug/kg	86.5	50 - 140	9.30	30		07/28/11
Carbazole	86-74-8		23000	ug/kg	66.6	50 - 140	7.90	30		07/28/11
Di-n-butylphthalate	84-74-2		24000	ug/kg	86.7	50 - 140	11.30	30		07/28/11
3,3-Dichlorobenzidine	91-94-1		17000	ug/kg	62	50 - 140	17.50	30		07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Bis-(2-Ethylhexyl)phthalate	117-81-7		25000	ug/kg	91.3	50 - 140	12.30	30		07/28/11
Di-n-octylphthalate	117-84-0		24000	ug/kg	88.2	50 - 140	12.90	30		07/28/11
Benzo(a)pyrene	50-32-8		25000	ug/kg	88.9	50 - 140	13.50	30		07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1		24000	ug/kg	87.9	50 - 140	10.00	30		07/28/11
4-Chloroaniline	106-47-8		20000	ug/kg	58	50 - 140	19.90	30		07/28/11

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112795

QC Batch 187153
Associated Samples 112795001

Test Cyanide by Midi/Spectrophotometer

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #61747**								
Cyanide	57-12-5		<4.0	ug/L						U	07/28/11
LCS			**QC Sample #61749**								
Cyanide	57-12-5		51.2	mg/kg	94.5	85 - 115				X	07/28/11
MS			**QC Sample #61750**								
			Original 112794001								
Cyanide	57-12-5		1.89	mg/kg	94.7	75 - 125					07/28/11
MSD			**QC Sample #61751**								
			Original 112794001						**Paired**	**61750**	
Cyanide	57-12-5		2.03	mg/kg	102.1	75 - 125	7.30	20			07/28/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112795

QC Batch 187365
Associated Samples 112795001

Test Anions by Ion Chromatography (Solid)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61892**							
Fluoride	16984-48-8		<0.036	ug/mL					U	07/27/11
Chloride	16887-00-6		<0.062	ug/mL					U	07/27/11
Nitrite-N	14797-55-8		<0.020	ug/mL					U	07/27/11
Bromide	24959-67-9		<0.083	ug/mL					U	07/27/11
Nitrate-N	7631-99-4		<0.019	ug/mL					U	07/27/11
Phosphate-P	14265-44-2		<0.050	ug/mL					U	07/27/11
Sulfate	14808-79-8		<0.072	ug/mL					U	07/27/11
LCS			**QC Sample #61893**							
Fluoride	16984-48-8		0.971	ug/mL	98.1	90 - 110				07/27/11
Chloride	16887-00-6		1.84	ug/mL	93	90 - 110				07/27/11
Nitrite-N	14797-55-8		0.965	ug/mL	98.6	90 - 110				07/27/11
Bromide	24959-67-9		3.93	ug/mL	100.2	90 - 110				07/27/11
Nitrate-N	7631-99-4		0.892	ug/mL	100.8	90 - 110				07/27/11
Phosphate-P	14265-44-2		1.85	ug/mL	96.8	90 - 110				07/27/11
Sulfate	14808-79-8		3.71	ug/mL	94.6	90 - 110				07/27/11
MS			**QC Sample #61894**							
			Original 112788001							
Fluoride	16984-48-8		21.5	mg/kg	85.8	80 - 120				07/27/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Chloride	16887-00-6		43.9	mg/kg	87.6	80 - 120					07/27/11
Nitrite-N	14797-55-8		22.6	mg/kg	91.5	80 - 120					07/27/11
Bromide	24959-67-9		93.3	mg/kg	94.2	80 - 120					07/27/11
Nitrate-N	7631-99-4		22.4	mg/kg	100	80 - 120					07/27/11
Phosphate-P	14265-44-2		41.2	mg/kg	85.4	80 - 120					07/27/11
Sulfate	14808-79-8		89.4	mg/kg	90.2	80 - 120					07/27/11
MSD			**QC Sample #61895**								
			Original 112788001						**Paired**	**61894**	
Fluoride	16984-48-8		22.3	mg/kg	88.8	80 - 120	4.00	30			07/27/11
Chloride	16887-00-6		45.2	mg/kg	89.8	80 - 120	3.00	30			07/27/11
Nitrite-N	14797-55-8		23.6	mg/kg	95	80 - 120	4.30	30			07/27/11
Bromide	24959-67-9		97.1	mg/kg	97.5	80 - 120	4.00	30			07/27/11
Nitrate-N	7631-99-4		22.9	mg/kg	101.9	80 - 120	2.50	30			07/27/11
Phosphate-P	14265-44-2		41.9	mg/kg	86.2	80 - 120	1.50	30			07/27/11
Sulfate	14808-79-8		89.8	mg/kg	90	80 - 120	0.40	30			07/27/11
DUP			**QC Sample #61896**								
			Original 112788001								
Fluoride	16984-48-8		<2.0	mg/kg			0.00	30		U	07/27/11
Chloride	16887-00-6		<3.4	mg/kg			22.60	30		U	07/27/11
Nitrite-N	14797-55-8		<1.1	mg/kg			0.00	30		U	07/27/11
Bromide	24959-67-9		<4.5	mg/kg			0.00	30		U	07/27/11
Nitrate-N	7631-99-4		<1.0	mg/kg			12.20	30		U	07/27/11
Phosphate-P	14265-44-2		<2.7	mg/kg			200.00	30	*	UX	07/27/11
Sulfate	14808-79-8		3.96	mg/kg			2.70	30		B	07/27/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112795

QC Batch 187367
Associated Samples 112795001

Test Ammonia(N) by IC (S)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
DUP			**QC Sample #61900**								
			Original 112794001								
Ammonia (N)	7664-41-7		<0.071	mg/kg			200.00	30	*	UX	07/28/11
MS			**QC Sample #61901**								
			Original 112794001								
Ammonia (N)	7664-41-7		16.9	mg/kg	67.9	75 - 125				N	07/28/11
MSD			**QC Sample #61902**								
			Original 112794001						**Paired**	**61901**	
Ammonia (N)	7664-41-7		17.7	mg/kg	70.8	75 - 125	4.40	30		N	07/28/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112795

QC Batch 186876
Associated Samples 112795001

Test Gamma Energy Analysis-general

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
IBLANK			**QC Sample #61515**							
Americium-241	14596-10-2		0.020	pCi/g					U	07/27/11
Antimony-125	14234-35-6		1.1E-3	pCi/g					U	07/27/11
Barium-133	13981-41-4		-0.0020	pCi/g					U	07/27/11
Cerium-144	14762-78-8		-0.0010	pCi/g					U	07/27/11
Cerium/Praseodymium-144	CE/PR-144		-0.0020	pCi/g					U	07/27/11
Cesium-134	13967-70-9		-0.019	pCi/g					U	07/27/11
Cesium-137	10045-97-3		-2.2E-3	pCi/g					U	07/27/11
Cobalt-60	10198-40-0		8.2E-4	pCi/g					U	07/27/11
Europium-152	14683-23-9		-2.9E-3	pCi/g					U	07/27/11
Europium-154	15585-10-1		1.8E-3	pCi/g					U	07/27/11
Europium-155	14391-16-3		7.5E-4	pCi/g					U	07/27/11
Niobium-94	14681-63-1		-1.4E-3	pCi/g					U	07/27/11
Potassium-40	13966-00-2		0.081	pCi/g						07/27/11
Radium-226	13982-63-3		0.079	pCi/g						07/27/11
Radium-228	15262-20-1		0.070	pCi/g						07/27/11
Ruthenium-106	13967-48-1		-0.042	pCi/g					U	07/27/11
Tin-126	15832-50-5		9.1E-3	pCi/g					U	07/27/11
Thorium-234	15065-10-8		-5.9E-3	pCi/g					U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Uranium-235	15117-96-1		7.6E-3	pCi/g						U	07/27/11
Zinc-65	13982-39-3		3.7E-3	pCi/g						U	07/27/11
Actinium-228	14331-83-0		0.11	pCi/g							07/27/11
Bismuth-212	14913-49-6		0.023	pCi/g						U	07/27/11
Bismuth-214	14733-03-0		0.11	pCi/g							07/27/11
Lead-212	15092-94-1		0.063	pCi/g							07/27/11
Lead-214	15067-28-4		0.099	pCi/g							07/27/11
Ruthenium-103	13968-53-1		3.3E-3	pCi/g						U	07/27/11
Tin-113	13966-06-8		2.7E-3	pCi/g						U	07/27/11
Thallium-208	14913-50-9		0.019	pCi/g							07/27/11
Beryllium-7	13966-02-4		-9.1E-3	pCi/g						U	07/27/11
Cobalt-57	13981-50-5		-1.2E-3	pCi/g						U	07/27/11
Manganese-54	13966-31-9		9.2E-4	pCi/g						U	07/27/11
LCS			**QC Sample #61516**								
Americium-241	14596-10-2		17000	pCi/sample	103.6	80 - 120					07/27/11
Cesium-137	10045-97-3		6500	pCi/sample	107.7	80 - 120					07/27/11
Cobalt-60	10198-40-0		10000	pCi/sample	104.2	80 - 120					07/27/11
DUP			**QC Sample #61517**								
			Original 112795001								
Americium-241	14596-10-2	0.036	0.037	pCi/g			3.40	30		U	07/27/11
Antimony-125	14234-35-6	-6.1E-3	-2.9E-4	pCi/g			-181.70	30	*	U	07/27/11
Barium-133	13981-41-4	-4.8E-3	6.7E-3	pCi/g			1182.10	30	*	U	07/27/11
Cerium-144	14762-78-8	-8.2E-3	-0.026	pCi/g			-104.20	30	*	U	07/27/11
Cerium/Praseodymium-144	CE/PR-144	-0.016	-0.052	pCi/g			-104.20	30	*	U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit		RQ	Analyzed
Cesium-134	13967-70-9	-4.9E-3	-0.042	pCi/g		-158.10	30	*	U	07/27/11
Cesium-137	10045-97-3	-6.3E-3	-7.5E-3	pCi/g		-18.10	30		U	07/27/11
Cobalt-60	10198-40-0	0.030	0.048	pCi/g		46.40	30	*		07/27/11
Europium-152	14683-23-9	4.8E-3	0.0060	pCi/g		22.90	30		U	07/27/11
Europium-154	15585-10-1	-0.047	-0.031	pCi/g		-42.50	30	*	U	07/27/11
Europium-155	14391-16-3	0.062	0.066	pCi/g		7.60	30		U	07/27/11
Niobium-94	14681-63-1	-4.4E-3	-1.1E-3	pCi/g		-117.70	30	*	U	07/27/11
Potassium-40	13966-00-2	20	20	pCi/g		2.00	30			07/27/11
Radium-226	13982-63-3	0.97	0.61	pCi/g		46.30	30	*		07/27/11
Radium-228	15262-20-1	0.77	0.69	pCi/g		10.70	30			07/27/11
Ruthenium-106	13967-48-1	-0.067	-6.7E-3	pCi/g		-163.50	30	*	U	07/27/11
Tin-126	15832-50-5	0.21	0.20	pCi/g		2.20	30			07/27/11
Thorium-234	15065-10-8	1.9	1.3	pCi/g		36.50	30	*		07/27/11
Uranium-235	15117-96-1	0.095	0.25	pCi/g		89.90	30	*		07/27/11
Zinc-65	13982-39-3	0.017	-0.012	pCi/g		1170.40	30	*	U	07/27/11
Actinium-228	14331-83-0	0.91	0.74	pCi/g		20.30	30			07/27/11
Bismuth-212	14913-49-6	0.77	0.89	pCi/g		14.40	30			07/27/11
Bismuth-214	14733-03-0	1.2	0.70	pCi/g		53.10	30	*		07/27/11
Lead-212	15092-94-1	0.80	0.79	pCi/g		0.20	30			07/27/11
Lead-214	15067-28-4	0.96	0.60	pCi/g		45.90	30	*		07/27/11
Ruthenium-103	13968-53-1	5.5E-4	-2.2E-3	pCi/g		-331.30	30	*	U	07/27/11
Tin-113	13966-06-8	9.1E-3	3.8E-3	pCi/g		81.30	30	*	U	07/27/11
Thallium-208	14913-50-9	0.39	0.36	pCi/g		7.60	30			07/27/11
Beryllium-7	13966-02-4	-0.050	-0.032	pCi/g		-42.90	30	*	U	07/27/11
Cobalt-57	13981-50-5	2.7E-3	4.4E-3	pCi/g		45.60	30	*	U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit		RQ	Analyzed
Manganese-54	13966-31-9	3.3E-3	0.014	pCi/g		125.00	30	*	U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112795

QC Batch 187046
Associated Samples 112795001

Test TC99 by Liquid Scintillation

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61619**							
Technetium-99	14133-76-7		0.0	pCi/g					U	07/28/11
LCS			**QC Sample #61620**							
Technetium-99	14133-76-7		8.1	pCi/g	98.7	80 - 120				07/28/11
DUP			**QC Sample #61621**							
			Original 112794001							
Technetium-99	14133-76-7		0.41	pCi/g			0.00	30		07/28/11
MS			**QC Sample #61622**							
			Original 112794001							
Technetium-99	14133-76-7		32	pCi/g	96.1	75 - 125				07/28/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112795

QC Batch 187367
Associated Samples 112795001

Test Ammonia(N) by IC (S)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61898**							
Ammonia (N)	7664-41-7		<1.4E-3	mg/L					U	07/28/11
LCS			**QC Sample #61899**							
Ammonia (N)	7664-41-7		0.182	mg/L	91.2	90 - 110				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

QC Batch 187051
Associated Samples 112795001

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #112795001**							
2-Fluorophenol	367-12-4				76.4	44 - 135				07/28/11
Phenol-d5	4165-62-2				77.9	41 - 136				07/28/11
Nitrobenzene-d5	4165-60-0				66.9	53 - 129				07/28/11
2-Fluorobiphenyl	321-60-8				48.2	36 - 141				07/28/11
2,4,6-Tribromophenol	118-79-6				52.2	17 - 142				07/28/11
Terphenyl-d14	98904-43-9				89.6	61 - 142				07/28/11
BLANK			**QC Sample #61638**							
2-Fluorophenol	367-12-4				106.6	44 - 135				07/28/11
Phenol-d5	4165-62-2				109.6	41 - 136				07/28/11
Nitrobenzene-d5	4165-60-0				107.2	53 - 129				07/28/11
2-Fluorobiphenyl	321-60-8				109.1	36 - 141				07/28/11
2,4,6-Tribromophenol	118-79-6				87.3	17 - 142				07/28/11
Terphenyl-d14	98904-43-9				119.5	61 - 142				07/28/11
LCS			**QC Sample #61639**							
2-Fluorophenol	367-12-4				113.1	19 - 140				07/28/11
Phenol-d5	4165-62-2				114.8	32 - 134				07/28/11
Nitrobenzene-d5	4165-60-0				114.3	60 - 122				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112795

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2-Fluorobiphenyl	321-60-8				113.9	57 - 122				07/28/11
2,4,6-Tribromophenol	118-79-6				107	34 - 139				07/28/11
Terphenyl-d14	98904-43-9				120.2	49 - 147				07/28/11
MS			**QC Sample #61640**							
			Original 112796001							
2-Fluorophenol	367-12-4				105.7	44 - 135				07/28/11
Phenol-d5	4165-62-2				105	41 - 136				07/28/11
Nitrobenzene-d5	4165-60-0				106.3	53 - 129				07/28/11
2-Fluorobiphenyl	321-60-8				107.7	36 - 141				07/28/11
2,4,6-Tribromophenol	118-79-6				99.6	17 - 142				07/28/11
Terphenyl-d14	98904-43-9				122.6	61 - 142				07/28/11
MSD			**QC Sample #61641**							
			Original 112796001					**Paired**	**61640**	
2-Fluorophenol	367-12-4				94.4	44 - 135	9.00			07/28/11
Phenol-d5	4165-62-2				93.9	41 - 136	8.70			07/28/11
Nitrobenzene-d5	4165-60-0				93.3	53 - 129	10.60			07/28/11
2-Fluorobiphenyl	321-60-8				93.4	36 - 141	11.80			07/28/11
2,4,6-Tribromophenol	118-79-6				84.2	17 - 142	14.40			07/28/11
Terphenyl-d14	98904-43-9				99.7	61 - 142	18.20			07/28/11

Analytical Comment Report

Attention: Steve McKinney

Group # WSCF112795

Quality Control Comments

Department Inorganic

61896 B2FD58(112788001DUP)

Analyte Phosphate-P - Anions by Ion Chromatography (Solid)

[1] Duplicate is flagged for RPD out-of-limits. RPD does not apply to samples concentrations below the calibration range. RPD is calculated on measured values and not applicable for a result below the RDL.

61900 B2FB32(112794001DUP)

Analyte Ammonia (N) - Ammonia(N) by IC (S)

[1] Duplicate is flagged for RPD out-of-limits. RPD does not apply to samples concentrations below the calibration range. RPD is calculated on measured values and not applicable for a result below the RDL.

Analytical Comment Report

Attention: Steve McKinney

Group # WSCF112795

Quality Control Comments

Department Wet Chemistry

61749 LCS for HBN 187153 [AUTO/2668]

Analyte Cyanide - Cyanide by Midi/Spectrophotometer

[1] LCS Recovery is within standard manufacturers expected limits.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 3 pages
Including cover page

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory
PO Box 650 S3-30
Richland, WA 99352

ATTN: Melissa Garrard

Customer Code: WRPS
PO #:
Work Order #: 112795
Profile #: VADOSE 20111031-C
Proj. Mgr.:
Phone:

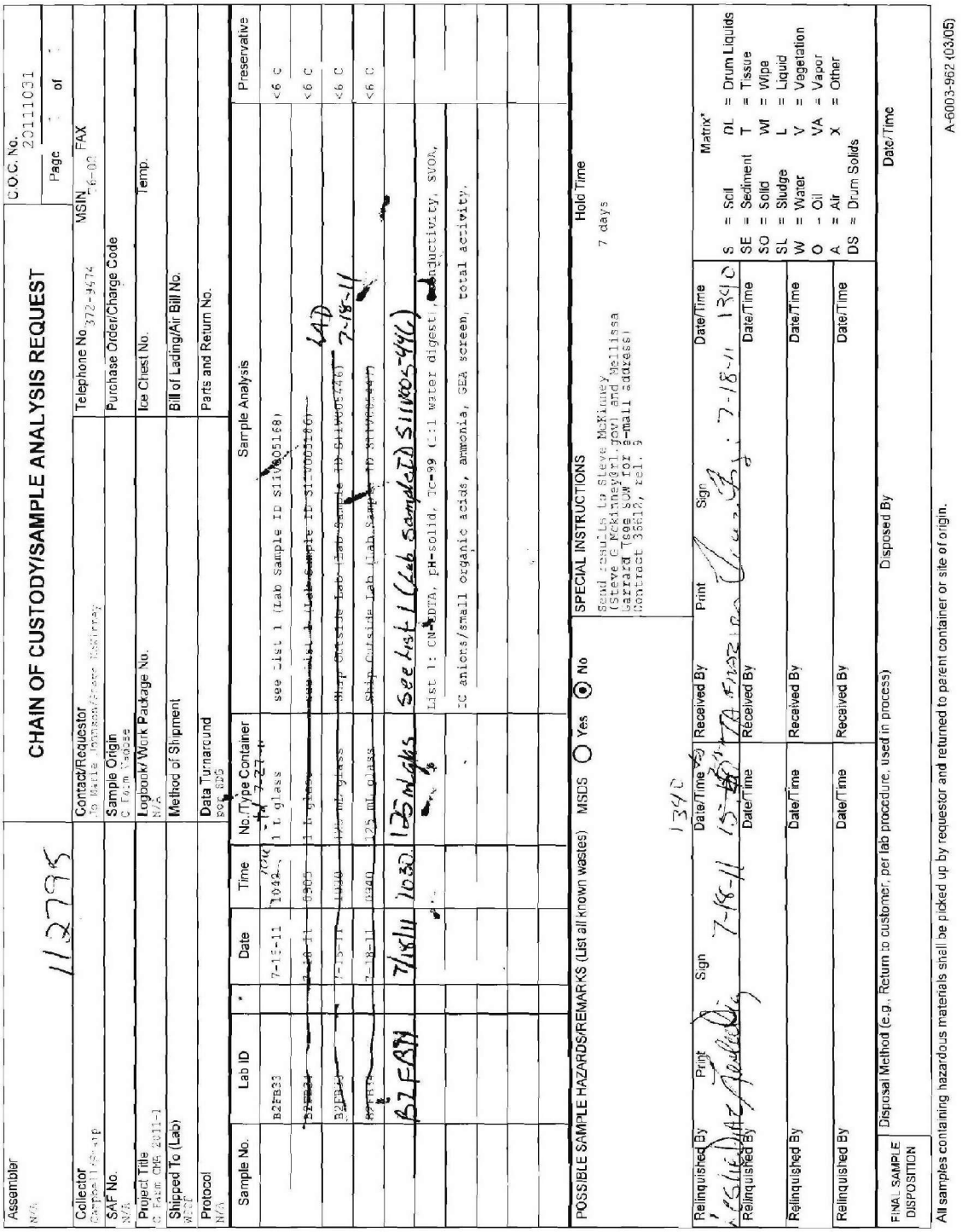
The following samples were received from you on 7/18/2011 1:40:00 PM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
		Tests scheduled		
112795001	B2FB33	SOIL	7/15/2011 10:20	7/18/2011 13:40
		8270SV-S; CN-S; COND-S; DRY-WEIGHT; GEA-S; IC-S; NH4IC-S; PH-S; TAB-S; TC99-S		

Test Acronym Description

Test Acronym	Description
8270SV-S	Semivolatiles by 8270D (S)
CN-S	Cyanide (Spectroscopy) (S)
COND-S	Conductivity (S)
DRY-WEIGHT	Dry Weight as Pct Moisture
GEA-S	Gamma Energy Analysis (S)
IC-S	Anions by IC (S)
NH4IC-S	Ammonia(N) by IC (S)
PH-S	pH (S)
TAB-S	Total Alpha/Beta (S)
TC99-S	Technetium-99 (S)

Sample Receipt



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: N/A — 112795

C.O.C. No.: 20111031 — Page 1 of 2

Collector: Campbell Camp — Contact/Requestor: Jo Waste Management Steve McKinney — Telephone No.: 372-9474 — MSIN: T6-03 — FAX

SAF No.: N/A — Sample Origin: C Farm Complex — Purchase Order/Charge Code

Project Title: C Farm CPE 2011-1 — Logbook/Work Package No.: N/A — Ice Chest No. — Temp.

Shipped To (Lab): WSCF — Method of Shipment — Bill of Lading/Air Bill No.

Protocol: N/A — Data Turnaround: 30 days — Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
	B2FB33		7-15-11	1042	1 L glass	see list 1 (Lab Sample ID S1105051-68)	<6 C
	~~B2FB34~~	~~—~~	~~7-18-11~~	~~0905~~	~~1 L glass~~	~~see list 1 (Lab Sample ID S1105051-67)~~ LAD	<6 C
	B2FB35	—	7-15-11	1040	125 mL glass	Ship Outside Lab (Lab Sample ID S1105051-46) 7-18-11	<6 C
	B2FB36	—	7-18-11	0900	125 mL glass	Ship Outside Lab (Lab Sample ID S1105051-47)	<6 C
	B2FB37		7/18/11	1030	125 mL glass	See List 1 (Lab Sampled S1105051-46)	
						List 1: CN-, TOTA, pH-solid, Tc-99 (1:1 water digest, conductivity, SVOA,	
						IC anions/small organic acids, ammonia, GEA screen, total activity,	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS
Send results to Steve McKinney
(Steve C McKinney@rl.gov) and Melissa Garraza Tegg SOW for e-mail address)
Contract 35612, Rel. 9

Hold Time: 7 days

1340

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
		7-18-11	1530				7-18-11 1340
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*: S = Soil, DL = Drum Liquids; SE = Sediment, T = Tissue; SO = Solid, WI = Wipe; SL = Sludge, L = Liquid; W = Water, V = Vegetation; O = Oil, VA = Vapor; A = Air, X = Other; DS = Drum Solids

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) — Disposed By — Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Wednesday, July 27, 2011 2:31:50 PM

Page 2 of 2

WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

August 22, 2011

Steve McKinney

Dear Steve McKinney,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF112796

Reference: (1) NA - No Customer Specification
(2) HNF-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF112796

* Cover Sheet (Attachment 1)
* Narrative (Attachment 2)
* Analytical Results (Attachment 3)
* Sample Receipt Information (Attachment 4)

Very truly yours,

Electronically signed by Joseph Hale

For Lab Manager

WSCF Analytical Lab

(509) 373-7495

Attachments 4

CC: w/Attachments
Heather Anastos
Heather Anastos
Melissa Garrard

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF112796
Data Deliverable Date 08/03/11

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
	B2FB34	112796001	SOIL	07/19/11	07/19/11

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Attachment 2
Narrative
WSCF112796

Introduction

One (1) sample was received at the WSCF Laboratory on July 19, 2011. The sample was analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *HNF-SD-CP-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Program Plan.*

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results and a comment report detailing method abnormalities as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

The following generic data qualifiers (i.e., B, D, U and J) may be applicable to this report, as appropriate

- **B** – Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **D** – Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** – Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Inorganic Comments

Ammonia – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Matrix Spike and Matrix Spike Duplicate recoveries were not within the established laboratory limits. Affected sample results in this batch were N flagged.

All other QC controls are within the established limits.

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate and Blank were analyzed with this delivery group.

All QC controls are within the established limits.

Attachment 2
Narrative
WSCF112796

Conductivity – Hold time requirement for this analysis was met. A Laboratory Control Sample was analyzed with this delivery group. Analytical Note(s):

All QC controls are within the established limits.

Cyanide – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- The LCS was slightly below the established laboratory limits, but was within the manufacturer's expected limits.

All other QC controls are within the established limits.

pH – The hold time requirement for this analysis was met. A Duplicate and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

All QC controls are within the established limits.

Organic Comments

Semi-VOA – The hold time requirement for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Diethyl phthalate contamination was detected in the Blank and was evaluated. Affected sample results in this batch were "J" Flagged.

All other QC controls are within the established limits.

Radiochemistry Comments

Rad Chem – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike (Matrix Spikes apply only to Technetium), Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

Rad Chem requested to be performed included: Gamma Energy Analysis, Total Alpha and Beta analysis and Technetium-99 by LSC.

- Gamma Energy Analysis:
    - Potassium-40, Radium-226, Radium-228, Actinium-228, Bismuth-214, Lead-212, Lead-214 and Thallium-208 – Detected in the blank. No flags issued.

    All other QC controls are within the established limits.

Attachment 2
Narrative
WSCF112796

- Total Alpha / Gross Beta:

  No QC associated with this analysis.

- Technetium-99:

  All QC controls are within the established limits.

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 45 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

Washington River Protection Solutions

Attention: Steve McKinney

Contract # NA
Group # WSCF112796
Report Date August 22, 2011

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Marisol Avila

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no `Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Steve McKinney
Department Inorganic

Group # WSCF112796

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187365	187366	2	BLANK	61892	BLANK		Anions by Ion Chromatography (Solid)
187365	187366	3	LCS	61893	LCS		Anions by Ion Chromatography (Solid)
187365	187366	4	MS	61894	B2FD58(112788001MS)	112788001	Anions by Ion Chromatography (Solid)
187365	187366	5	MSD	61895	B2FD58(112788001MSD)	112788001	Anions by Ion Chromatography (Solid)
187365	187366	6	DUP	61896	B2FD58(112788001DUP)	112788001	Anions by Ion Chromatography (Solid)
187365	187366	14	SAMPLE	112796001	B2FB34		Anions by Ion Chromatography (Solid)
187367	187368	3	BLANK	61898	BLANK		Ammonia(N) by IC (S)
187367	187368	4	LCS	61899	LCS		Ammonia(N) by IC (S)
187367	187368	5	DUP	61900	B2FB32(112794001DUP)	112794001	Ammonia(N) by IC (S)
187367	187368	6	MS	61901	B2FB32(112794001MS)	112794001	Ammonia(N) by IC (S)
187367	187368	7	MSD	61902	B2FB32(112794001MSD)	112794001	Ammonia(N) by IC (S)
187367	187368	10	SAMPLE	112796001	B2FB34		Ammonia(N) by IC (S)

Batch QC List

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187051	187072	1	BLANK	61638	BLANK		SW-846 8270D Semivolatiles
187051	187072	2	LCS	61639	LCS		SW-846 8270D Semivolatiles
187051	187072	3	MS	61640	B2FB34(112796001MS)	112796001	SW-846 8270D Semivolatiles
187051	187072	4	MSD	61641	B2FB34(112796001MSD)	112796001	SW-846 8270D Semivolatiles
187051	187072	7	SAMPLE	112796001	B2FB34		SW-846 8270D Semivolatiles

Batch QC List

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112796

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
186875	186897	2	SAMPLE	112796001	B2FB34		Total Alpha/Beta by Liquid Scintillation
186876	186893	1	IBLANK	61515	IBLANK		Gamma Energy Analysis-general
186876	186893	2	LCS	61516	LCS		Gamma Energy Analysis-general
186876	186893	3	DUP	61517	B2FB33(112795001DUP)	112795001	Gamma Energy Analysis-general
186876	186893	5	SAMPLE	112796001	B2FB34		Gamma Energy Analysis-general
187046	187144	1	BLANK	61619	BLANK		TC99 by Liquid Scintillation
187046	187144	2	LCS	61620	LCS		TC99 by Liquid Scintillation
187046	187144	4	DUP	61621	B2FB32(112794001DUP)	112794001	TC99 by Liquid Scintillation
187046	187144	5	MS	61622	B2FB32(112794001MS)	112794001	TC99 by Liquid Scintillation
187046	187144	7	SAMPLE	112796001	B2FB34		TC99 by Liquid Scintillation

Batch QC List

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112796

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
186889	186889	1	LCS	61546	LCS		Conductivity
186889	186889	8	SAMPLE	112796001	B2FB34		Conductivity
187045	187045	3	SAMPLE	112796001	B2FB34		Dry Weight/Percent Moisture
187050	187050	12	LCS	61635	LCS		Soil And Waste pH Measurement
187050	187050	14	DUP	61636	B2FB32(112794001DUP)	112794001	Soil And Waste pH Measurement
187050	187050	16	SAMPLE	112796001	B2FB34		Soil And Waste pH Measurement
187050	187050	17	LCS	61637	LCS		Soil And Waste pH Measurement
187153	187155	1	BLANK	61747	BLANK		Cyanide by Midi/Spectrophotometer
187153	187155	4	LCS	61749	LCS		Cyanide by Midi/Spectrophotometer
187153	187155	5	MS	61750	B2FB32(112794001MS)	112794001	Cyanide by Midi/Spectrophotometer
187153	187155	6	MSD	61751	B2FB32(112794001MSD)	112794001	Cyanide by Midi/Spectrophotometer
187153	187155	9	SAMPLE	112796001	B2FB34		Cyanide by Midi/Spectrophotometer

Method Reference

Attention Steve McKinney
Department Inorganic

Group # WSCF112796

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-503-401	Analysis of Cations by Ion Chromatography		
	HEIS	300.7_CATIONS_IC	Determination of Cations by IC
LA-533-410	Anion Analysis by Ion Chromatography		
	EPA-600/R-94-111	300.0	Determination of Inorganic Anions by Ion Chromatography
	HEIS	300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-523-456 Semivolatile Sample Analysis by SW-846 Method 8270D

EPA SW-846	8000B	Determinative Chromagraphic Separations
EPA SW-846	3510C	Separatory Funnel Liquid-Liquid Extraction
EPA SW-846	8270D	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
EPA SW-846	3545	Pressurized Fluid Extraction (PFE)
HEIS	8270_SVOA_GCMS	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry(GC/MS)

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112796

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-508-481	Gamma Energy Analysis using the Canberra Genie Ssystem		
	HEIS	GAMMA_GS	Gamma Energy Analysis
LA-508-421	Operation of the Tri-Carb Model 2500TR Liquid Scintillation Analyzer		
	HEIS	ALPHA_LSC	A/B Liquid Scintillation
	HEIS	BETA_LSC	A/B Liquid Scintillation
	HEIS	TC99_3MDSK_LSC	TC99 by Liquid Scintillation
	HEIS	TRITIUM_EIE_LSC	Tritium, by Eichrome ion exchange, LSC

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112796

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-519-401	Conductivity		
	ASTM	D1125	Standard Test Methods for Electrical Conductivity and Resistivity of Water
	EPA SW-846	9050A	Specific Conductance
	HEIS	120.1_CONDUCT	Specific Conductance
LA-212-411	Determination of Soil pH Measurement		
	HEIS	150.1_PH	pH
LA-519-412	Total Residual Percent Solids Dried at 103 - 105 Degrees C		
	EPA-600/4-79-020	160.3	Total Residue
	Standard Methods	2540B	Total Solids Dried at 103-105 C
	HEIS	%SOLIDS	Dry Weight, Percent Solids
LA-695-402	Determination of Cyanide by Mididistillation and		
	EPA	SW-846 Method 9014/9010	Determination of Cyanide by Midi-Distillation and Spectrophotometric Analysis
	SM	4500 CNE	Cyanide, Total
	HEIS	335.2_CYANIDE	Cyanide, Total

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

WSCF Analytical Results Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112796

Sample # 112796001
SAF#
Sample ID B2FB34

Matrix SOIL
Sampled 07/19/11
Received 07/19/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anion Prep										**07/28/11**
Cation by IC										
Ammonia (N)	7664-41-7	LA-503-401	BN	0.336		mg/kg	1	0.074	1.4	07/28/11
Anions by IC										**07/27/11**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	U	<1.9		mg/kg	1	1.9	3.8	07/27/11
Chloride	16887-00-6	LA-533-410	B	14.3		mg/kg	1	3.3	21	07/27/11
Nitrite-N	14797-55-8	LA-533-410	U	<1.1		mg/kg	1	1.1	5.1	07/27/11
Bromide	24959-67-9	LA-533-410	U	<4.4		mg/kg	1	4.4	25	07/27/11
Nitrate-N	7631-99-4	LA-533-410		27.4		mg/kg	1	1.0	5.2	07/27/11
Phosphate-P	14265-44-2	LA-533-410	U	<2.6		mg/kg	1	2.6	19	07/27/11
Sulfate	14808-79-8	LA-533-410		82.9		mg/kg	1	3.8	55	07/27/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Sample # 112796001
SAF#
Sample ID B2FB34

Matrix SOIL
Sampled 07/19/11
Received 07/19/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8270 Prep										**07/27/11**
SW-846 8270D										
4-Nitrophenol	100-02-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Phenol	108-95-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Pyrene	129-00-0	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Acenaphthene	83-32-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Pentachlorophenol	87-86-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Chlorophenol	95-57-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Nitroaniline	100-01-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Chloroaniline	106-47-8	LA-523-456	U	<300		ug/kg	1	300	800	07/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Sample # 112796001
SAF#
Sample ID B2FB34

Matrix SOIL
Sampled 07/19/11
Received 07/19/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Di-n-octylphthalate	117-84-0	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachlorobenzene	118-74-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Anthracene	120-12-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Dimethylphthalate	131-11-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Dibenzofuran	132-64-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Fluoranthene	206-44-0	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Acenaphthylene	208-96-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Chrysene	218-01-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11

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B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Sample # 112796001
SAF#
Sample ID B2FB34

Matrix SOIL
Sampled 07/19/11
Received 07/19/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzo(a)anthracene	56-55-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Isophorone	78-59-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Diethyl phthalate	84-66-2	LA-523-456	U	<300		ug/kg	1	300	800	07/28/11
Di-n-butylphthalate	84-74-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Phenanthrene	85-01-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Butylbenzylphthalate	85-68-7	LA-523-456	U	<300		ug/kg	1	300	800	07/28/11
n-Nitrosodiphenylamine	86-30-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Fluorene	86-73-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11

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T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Sample # 112796001
SAF#
Sample ID B2FB34

Matrix SOIL
Sampled 07/19/11
Received 07/19/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbazole	86-74-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachlorobutadiene	87-68-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Nitroaniline	88-74-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Nitrophenol	88-75-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Naphthalene	91-20-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Methylnaphthalene	91-57-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Chloronaphthalene	91-58-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Methylphenol	95-48-7	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Nitrobenzene	98-95-3	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
3-Nitroaniline	99-09-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Hexachloroethane	67-72-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
n-Decane	124-18-5	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
n-Dodecane	112-40-3	LA-523-456	U	<300		ug/kg	1	300	800	07/28/11
Benzyl alcohol	100-51-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11

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J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Sample # 112796001
SAF#
Sample ID B2FB34

Matrix SOIL
Sampled 07/19/11
Received 07/19/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Butoxyethanol	111-76-2	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Tributyl phosphate	126-73-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
2-Naphthylamine	91-59-8	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Cyclohexanone	108-94-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Pyridine	110-86-1	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	<200		ug/kg	1	200	800	07/28/11
Benzoic Acid	65-85-0	LA-523-456	U	<200		ug/kg	1	200	2.E3	07/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112796

Sample # 112796001
SAF#
Sample ID B2FB34

Matrix SOIL
Sampled 07/19/11
Received 07/19/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
GEA Prep										**07/27/11**
GEA										
Americium-241	14596-10-2	LA-508-481	U	-0.26	.14	pCi/g	1	0.24		07/27/11
Antimony-125	14234-35-6	LA-508-481	U	-0.010	.045	pCi/g	1	0.081		07/27/11
Barium-133	13981-41-4	LA-508-481	U	9.9E-3	.023	pCi/g	1	0.037		07/27/11
Cerium-144	14762-78-8	LA-508-481	U	6.1E-3	.14	pCi/g	1	0.23		07/27/11
Cerium/Praseodymium -144	CE/PR-144	LA-508-481	U	0.012	.28	pCi/g	1	0.46		07/27/11
Cesium-134	13967-70-9	LA-508-481	U	-0.044	.099	pCi/g	1	0.18		07/27/11
Cesium-137	10045-97-3	LA-508-481	U	1.1E-4	.018	pCi/g	1	0.033		07/27/11
Cobalt-60	10198-40-0	LA-508-481	U	-6.2E-3	.018	pCi/g	1	0.032		07/27/11
Europium-152	14683-23-9	LA-508-481	U	-0.014	.066	pCi/g	1	0.091		07/27/11
Europium-154	15585-10-1	LA-508-481	U	-0.021	.057	pCi/g	1	0.10		07/27/11
Europium-155	14391-16-3	LA-508-481	U	0.071	.07	pCi/g	1	0.13		07/27/11
Niobium-94	14681-63-1	LA-508-481	U	3.8E-3	.016	pCi/g	1	0.030		07/27/11
Potassium-40	13966-00-2	LA-508-481		22	2.6	pCi/g	1	0.25		07/27/11
Radium-226	13982-63-3	LA-508-481		0.68	.11	pCi/g	1	0.056		07/27/11
Radium-228	15262-20-1	LA-508-481		0.87	.17	pCi/g	1	0.10		07/27/11
Ruthenium-106	13967-48-1	LA-508-481	U	0.013	.15	pCi/g	1	0.28		07/27/11
Tin-126	15832-50-5	LA-508-481		0.25	.078	pCi/g	1	0.093		07/27/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112796

Sample # 112796001
SAF#
Sample ID B2FB34

Matrix SOIL
Sampled 07/19/11
Received 07/19/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Thorium-234	15065-10-8	LA-508-481		2.4	.8	pCi/g	1	0.56		07/27/11
Uranium-235	15117-96-1	LA-508-481		0.12	.05	pCi/g	1	0.044		07/27/11
Zinc-65	13982-39-3	LA-508-481	U	0.028	.049	pCi/g	1	0.077		07/27/11
Actinium-228	14331-83-0	LA-508-481		0.87	.23	pCi/g	1	0.10		07/27/11
Bismuth-212	14913-49-6	LA-508-481		1.5	.55	pCi/g	1	0.43		07/27/11
Bismuth-214	14733-03-0	LA-508-481		0.81	.16	pCi/g	1	0.056		07/27/11
Lead-212	15092-94-1	LA-508-481		0.91	.11	pCi/g	1	0.058		07/27/11
Lead-214	15067-28-4	LA-508-481		0.74	.11	pCi/g	1	0.064		07/27/11
Ruthenium-103	13968-53-1	LA-508-481	U	0.011	.016	pCi/g	1	0.029		07/27/11
Tin-113	13966-06-8	LA-508-481	U	2.9E-3	.022	pCi/g	1	0.040		07/27/11
Thallium-208	14913-50-9	LA-508-481		0.27	.17	pCi/g	1	0.029		07/27/11
Beryllium-7	13966-02-4	LA-508-481	U	0.12	.14	pCi/g	1	0.26		07/27/11
Cobalt-57	13981-50-5	LA-508-481	U	0.012	.016	pCi/g	1	0.029		07/27/11
Manganese-54	13966-31-9	LA-508-481		0.035	.02	pCi/g	1	0.034		07/27/11
LSC Prep										**07/27/11**
TC99 TRI-CARB LSC										
Total Alpha	12587-46-1	LA-508-421	U	-0.22	1.4	pCi/g	1	2.3		07/27/11
Total Beta	12587-47-2	LA-508-421		14	3.4	pCi/g	1	2.8		07/27/11
Tc-99 Prep										**07/28/11**

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112796

Sample # 112796001
SAF#
Sample ID B2FB34

Matrix SOIL
Sampled 07/19/11
Received 07/19/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
TC99 TRI-CARB LSC										
Technetium-99	14133-76-7	LA-508-421		3.1	.62	pCi/g	1	0.32		07/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112796

Sample # 112796001
SAF#
Sample ID B2FB34

Matrix SOIL
Sampled 07/19/11
Received 07/19/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Conductivity										**07/27/11**
Conductivity										
Conductivity	CONDUCT	LA-519-401		177		uS/cm	1	0.50	5.0	07/27/11
Cyanide Prep										**07/28/11**
Cyanide										
Cyanide	57-12-5	LA-695-402	U	<0.21		mg/kg	1	0.21	1.0	07/28/11
Total Residue										**07/27/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		95		percent	1			07/27/11
pH on Solids										**07/27/11**
pH on Solids										
pH	PH	LA-212-411		8.79		unitless	1	0.010	0.50	07/27/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112796

QC Batch 186889
Associated Samples 112796001

Test Conductivity

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #61546**							
Conductivity	CONDUCT		131	uS/cm	100.2	90 - 110				07/27/11

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112796

QC Batch 187050
Associated Samples 112796001

Test Soil And Waste pH Measurement

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #61635**							
pH	PH		8.01	unitless	100.1	98.75 - 101.25				07/27/11
DUP			**QC Sample #61636**							
			Original 112794001							
pH	PH		9.42	unitless			0.50	30		07/27/11
LCS			**QC Sample #61637**							
pH	PH		7.99	unitless	99.9	98.75 - 101.25				07/27/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

QC Batch 187051
Associated Samples 112796001

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61638**						
4-Nitrophenol	100-02-7		<200	ug/kg				U	07/28/11
1,4-Dichlorobenzene	106-46-7		<200	ug/kg				U	07/28/11
Phenol	108-95-2		<200	ug/kg				U	07/28/11
1,2,4-Trichlorobenzene	120-82-1		<200	ug/kg				U	07/28/11
2,4-Dinitrotoluene	121-14-2		<200	ug/kg				U	07/28/11
Pyrene	129-00-0		<200	ug/kg				U	07/28/11
4-Chloro-3-methylphenol	59-50-7		<200	ug/kg				U	07/28/11
n-Nitroso-di-n-propylamine	621-64-7		<200	ug/kg				U	07/28/11
Acenaphthene	83-32-9		<200	ug/kg				U	07/28/11
Pentachlorophenol	87-86-5		<200	ug/kg				U	07/28/11
2-Chlorophenol	95-57-8		<200	ug/kg				U	07/28/11
4-Nitroaniline	100-01-6		<200	ug/kg				U	07/28/11
4-Bromophenyl-phenylether	101-55-3		<200	ug/kg				U	07/28/11
2,4-Dimethylphenol	105-67-9		<200	ug/kg				U	07/28/11
4-Chloroaniline	106-47-8		<300	ug/kg				U	07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1		<200	ug/kg				U	07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Bis-(2-Chloroethyl) ether	111-44-4		<200	ug/kg				U	07/28/11
Bis-(2-Chloroethoxy)methane	111-91-1		<200	ug/kg				U	07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		<200	ug/kg				U	07/28/11
Di-n-octylphthalate	117-84-0		<200	ug/kg				U	07/28/11
Hexachlorobenzene	118-74-1		<200	ug/kg				U	07/28/11
Anthracene	120-12-7		<200	ug/kg				U	07/28/11
2,4-Dichlorophenol	120-83-2		<200	ug/kg				U	07/28/11
Dimethylphthalate	131-11-3		<200	ug/kg				U	07/28/11
Dibenzofuran	132-64-9		<200	ug/kg				U	07/28/11
Benzo(g,h,i)perylene	191-24-2		<200	ug/kg				U	07/28/11
Indeno(1,2,3-cd)pyrene	193-39-5		<200	ug/kg				U	07/28/11
Benzo(b)fluoranthene	205-99-2		<200	ug/kg				U	07/28/11
Fluoranthene	206-44-0		<200	ug/kg				U	07/28/11
Benzo(k)fluoranthene	207-08-9		<200	ug/kg				U	07/28/11
Acenaphthylene	208-96-8		<200	ug/kg				U	07/28/11
Chrysene	218-01-9		<200	ug/kg				U	07/28/11
Benzo(a)pyrene	50-32-8		<200	ug/kg				U	07/28/11
2,4-Dinitrophenol	51-28-5		<200	ug/kg				U	07/28/11
Dibenzo(a,h)anthracene	53-70-3		<200	ug/kg				U	07/28/11
4,6-Dinitro-2-methylphenol	534-52-1		<200	ug/kg				U	07/28/11
1,3-Dichlorobenzene	541-73-1		<200	ug/kg				U	07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Benzo(a)anthracene	56-55-3		<200	ug/kg				U	07/28/11
2,6-Dinitrotoluene	606-20-2		<200	ug/kg				U	07/28/11
4-Chlorophenyl-phenylether	7005-72-3		<200	ug/kg				U	07/28/11
Hexachlorocyclopentadiene	77-47-4		<200	ug/kg				U	07/28/11
Isophorone	78-59-1		<200	ug/kg				U	07/28/11
Diethyl phthalate	84-66-2		290	ug/kg				J	07/28/11
Di-n-butylphthalate	84-74-2		<200	ug/kg				U	07/28/11
Phenanthrene	85-01-8		<200	ug/kg				U	07/28/11
Butylbenzylphthalate	85-68-7		<200	ug/kg				U	07/28/11
n-Nitrosodiphenylamine	86-30-6		<200	ug/kg				U	07/28/11
Fluorene	86-73-7		<200	ug/kg				U	07/28/11
Carbazole	86-74-8		<200	ug/kg				U	07/28/11
Hexachlorobutadiene	87-68-3		<200	ug/kg				U	07/28/11
2-Nitroaniline	88-74-4		<200	ug/kg				U	07/28/11
2-Nitrophenol	88-75-5		<200	ug/kg				U	07/28/11
Naphthalene	91-20-3		<200	ug/kg				U	07/28/11
2-Methylnaphthalene	91-57-6		<200	ug/kg				U	07/28/11
2-Chloronaphthalene	91-58-7		<200	ug/kg				U	07/28/11
3,3-Dichlorobenzidine	91-94-1		<200	ug/kg				U	07/28/11
2-Methylphenol	95-48-7		<200	ug/kg				U	07/28/11
1,2-Dichlorobenzene	95-50-1		<200	ug/kg				U	07/28/11
2,4,5-Trichlorophenol	95-95-4		<200	ug/kg				U	07/28/11
Nitrobenzene	98-95-3		<200	ug/kg				U	07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
3-Nitroaniline	99-09-2		<200	ug/kg					U	07/28/11
3 & 4 Methylphenol, Total	65794-96-9		<200	ug/kg					U	07/28/11
Hexachloroethane	67-72-1		<200	ug/kg					U	07/28/11
2,4,6-Trichlorophenol	88-06-2		<200	ug/kg					U	07/28/11
n-Decane	124-18-5		<200	ug/kg					U	07/28/11
n-Dodecane	112-40-3		<300	ug/kg					U	07/28/11
Benzyl alcohol	100-51-6		<200	ug/kg					U	07/28/11
2-Butoxyethanol	111-76-2		<200	ug/kg					U	07/28/11
Tributyl phosphate	126-73-8		<200	ug/kg					U	07/28/11
2-Naphthylamine	91-59-8		<200	ug/kg					U	07/28/11
Cyclohexanone	108-94-1		<200	ug/kg					U	07/28/11
Pyridine	110-86-1		<200	ug/kg					U	07/28/11
1,2,4-Trimethylbenzene	95-63-6		<200	ug/kg					U	07/28/11
Benzoic Acid	65-85-0		<200	ug/kg					U	07/28/11
LCS			**QC Sample #61639**							
4-Nitrophenol	100-02-7		5100	ug/kg	85.8	49 - 128				07/28/11
1,4-Dichlorobenzene	106-46-7		4100	ug/kg	101.4	71 - 122				07/28/11
Phenol	108-95-2		6100	ug/kg	101.1	72 - 123				07/28/11
1,2,4-Trichlorobenzene	120-82-1		5800	ug/kg	96.7	73 - 127				07/28/11
2,4-Dinitrotoluene	121-14-2		5900	ug/kg	98.2	68 - 121				07/28/11
Pyrene	129-00-0		6500	ug/kg	107.7	75 - 137				07/28/11
4-Chloro-3-methylphenol	59-50-7		6000	ug/kg	100.4	69 - 127				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Nitroso-di-n-propylamine	621-64-7		6300	ug/kg	104.9	73 - 125				07/28/11
Acenaphthene	83-32-9		6200	ug/kg	102.8	73 - 122				07/28/11
Pentachlorophenol	87-86-5		5500	ug/kg	91.2	42 - 132				07/28/11
2-Chlorophenol	95-57-8		6100	ug/kg	101.6	71 - 123				07/28/11
2-Butoxyethanol	111-76-2		5900	ug/kg	98.2	50 - 140				07/28/11
Benzyl alcohol	100-51-6		6300	ug/kg	104.9	50 - 140				07/28/11
2-Methylphenol	95-48-7		6100	ug/kg	102.5	50 - 140				07/28/11
Hexachloroethane	67-72-1		5600	ug/kg	92.7	50 - 140				07/28/11
2-Nitrophenol	88-75-5		6100	ug/kg	101.7	50 - 140				07/28/11
2,4-Dimethylphenol	105-67-9		6200	ug/kg	103.5	50 - 140				07/28/11
2,4-Dichlorophenol	120-83-2		5900	ug/kg	99	50 - 140				07/28/11
n-Dodecane	112-40-3		6500	ug/kg	108.2	50 - 140				07/28/11
Naphthalene	91-20-3		6100	ug/kg	101.3	50 - 140				07/28/11
2-Nitroaniline	88-74-4		6300	ug/kg	104.3	50 - 140				07/28/11
Dibenzofuran	132-64-9		6200	ug/kg	102.6	50 - 140				07/28/11
Fluorene	86-73-7		6200	ug/kg	104	50 - 140				07/28/11
Tributyl phosphate	126-73-8		6100	ug/kg	100.9	50 - 140				07/28/11
Hexachlorobenzene	118-74-1		6300	ug/kg	104.4	50 - 140				07/28/11
Anthracene	120-12-7		6200	ug/kg	102.6	50 - 140				07/28/11
Carbazole	86-74-8		6200	ug/kg	81	50 - 140				07/28/11
Di-n-butylphthalate	84-74-2		6300	ug/kg	104.2	50 - 140				07/28/11
3,3-Dichlorobenzidine	91-94-1		5200	ug/kg	86.3	50 - 140				07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7		6500	ug/kg	107.8	50 - 140				07/28/11
Di-n-octylphthalate	117-84-0		6200	ug/kg	104	50 - 140				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Benzo(a)pyrene	50-32-8		6100	ug/kg	102.5	50 - 140				07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1		6300	ug/kg	104.4	50 - 140				07/28/11
4-Chloroaniline	106-47-8		5900	ug/kg	77.1	50 - 140				07/28/11
MS			**QC Sample #61640**							
			Original 112796001							
4-Nitrophenol	100-02-7	<200	19000	ug/kg	69.4	53 - 130				07/28/11
1,4-Dichlorobenzene	106-46-7	<200	18000	ug/kg	97.4	75 - 117				07/28/11
Phenol	108-95-2	<200	26000	ug/kg	95.7	76 - 123				07/28/11
1,2,4-Trichlorobenzene	120-82-1	<200	25000	ug/kg	92.3	76 - 125				07/28/11
2,4-Dinitrotoluene	121-14-2	<200	25000	ug/kg	93.9	73 - 120				07/28/11
Pyrene	129-00-0	<200	30000	ug/kg	110.2	78 - 134				07/28/11
4-Chloro-3-methylphenol	59-50-7	<200	26000	ug/kg	94.5	71 - 129				07/28/11
n-Nitroso-di-n-propylamine	621-64-7	<200	26000	ug/kg	97	75 - 124				07/28/11
Acenaphthene	83-32-9	<200	26000	ug/kg	97.7	75 - 121				07/28/11
Pentachlorophenol	87-86-5	<200	21000	ug/kg	77.6	39 - 140				07/28/11
2-Chlorophenol	95-57-8	<200	26000	ug/kg	95.5	75 - 123				07/28/11
2-Butoxyethanol	111-76-2	<200	26000	ug/kg	95.6	50 - 140				07/28/11
Benzyl alcohol	100-51-6	<200	24000	ug/kg	88.8	50 - 140				07/28/11
2-Methylphenol	95-48-7	<200	27000	ug/kg	100	50 - 140				07/28/11
Hexachloroethane	67-72-1	<200	23000	ug/kg	86.2	50 - 140				07/28/11
2-Nitrophenol	88-75-5	<200	26000	ug/kg	94.9	50 - 140				07/28/11
2,4-Dimethylphenol	105-67-9	<200	26000	ug/kg	97.9	50 - 140				07/28/11
2,4-Dichlorophenol	120-83-2	<200	25000	ug/kg	92.8	50 - 140				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Dodecane	112-40-3	<300	28000	ug/kg	104.3	50 - 140				07/28/11
Naphthalene	91-20-3	<200	26000	ug/kg	96	50 - 140				07/28/11
2-Nitroaniline	88-74-4	<200	26000	ug/kg	97.1	50 - 140				07/28/11
Dibenzofuran	132-64-9	<200	27000	ug/kg	98.4	50 - 140				07/28/11
Fluorene	86-73-7	<200	27000	ug/kg	99.1	50 - 140				07/28/11
Tributyl phosphate	126-73-8	<200	26000	ug/kg	96.6	50 - 140				07/28/11
Hexachlorobenzene	118-74-1	<200	27000	ug/kg	99.5	50 - 140				07/28/11
Anthracene	120-12-7	<200	26000	ug/kg	97.2	50 - 140				07/28/11
Carbazole	86-74-8	<200	25000	ug/kg	73.9	50 - 140				07/28/11
Di-n-butylphthalate	84-74-2	<200	27000	ug/kg	99.4	50 - 140				07/28/11
3,3-Dichlorobenzidine	91-94-1	<200	20000	ug/kg	75.7	50 - 140				07/28/11
Bis-(2-Ethylhexyl)phthalate	117-81-7	<200	29000	ug/kg	105.7	50 - 140				07/28/11
Di-n-octylphthalate	117-84-0	<200	28000	ug/kg	102.8	50 - 140				07/28/11
Benzo(a)pyrene	50-32-8	<200	28000	ug/kg	104.2	50 - 140				07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1	<200	27000	ug/kg	99.5	50 - 140				07/28/11
4-Chloroaniline	106-47-8	<300	25000	ug/kg	72.5	50 - 140				07/28/11
MSD			**QC Sample #61641**							
			Original 112796001						**Paired 61640**	
4-Nitrophenol	100-02-7	<200	18000	ug/kg	63.4	53 - 130	6.70	30		07/28/11
1,4-Dichlorobenzene	106-46-7	<200	16000	ug/kg	87.2	75 - 117	8.70	30		07/28/11
Phenol	108-95-2	<200	24000	ug/kg	86.3	76 - 123	8.00	30		07/28/11
1,2,4-Trichlorobenzene	120-82-1	<200	23000	ug/kg	83.4	76 - 125	7.70	30		07/28/11
2,4-Dinitrotoluene	121-14-2	<200	22000	ug/kg	80.7	73 - 120	12.70	30		07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Pyrene	129-00-0	<200	26000	ug/kg	92.3	78 - 134	15.30	30		07/28/11
4-Chloro-3-methylphenol	59-50-7	<200	24000	ug/kg	85.2	71 - 129	8.10	30		07/28/11
n-Nitroso-di-n-propylamine	621-64-7	<200	24000	ug/kg	87.2	75 - 124	8.30	30		07/28/11
Acenaphthene	83-32-9	<200	24000	ug/kg	87.3	75 - 121	8.90	30		07/28/11
Pentachlorophenol	87-86-5	<200	18000	ug/kg	65.4	39 - 140	14.70	30		07/28/11
2-Chlorophenol	95-57-8	<200	24000	ug/kg	86.4	75 - 123	7.60	30		07/28/11
2-Butoxyethanol	111-76-2	<200	23000	ug/kg	82.8	50 - 140	12.00	30		07/28/11
Benzyl alcohol	100-51-6	<200	22000	ug/kg	77.6	50 - 140	11.20	30		07/28/11
2-Methylphenol	95-48-7	<200	26000	ug/kg	93	50 - 140	4.90	30		07/28/11
Hexachloroethane	67-72-1	<200	22000	ug/kg	78.1	50 - 140	7.60	30		07/28/11
2-Nitrophenol	88-75-5	<200	24000	ug/kg	87.1	50 - 140	6.20	30		07/28/11
2,4-Dimethylphenol	105-67-9	<200	24000	ug/kg	87.8	50 - 140	8.50	30		07/28/11
2,4-Dichlorophenol	120-83-2	<200	23000	ug/kg	84.2	50 - 140	7.40	30		07/28/11
n-Dodecane	112-40-3	<300	26000	ug/kg	94	50 - 140	8.10	30		07/28/11
Naphthalene	91-20-3	<200	24000	ug/kg	85.5	50 - 140	9.20	30		07/28/11
2-Nitroaniline	88-74-4	<200	24000	ug/kg	87.6	50 - 140	7.90	30		07/28/11
Dibenzofuran	132-64-9	<200	24000	ug/kg	87.3	50 - 140	9.60	30		07/28/11
Fluorene	86-73-7	<200	25000	ug/kg	89.2	50 - 140	8.10	30		07/28/11
Tributyl phosphate	126-73-8	<200	23000	ug/kg	84.6	50 - 140	10.80	30		07/28/11
Hexachlorobenzene	118-74-1	<200	24000	ug/kg	86.9	50 - 140	11.20	30		07/28/11
Anthracene	120-12-7	<200	24000	ug/kg	86.5	50 - 140	9.30	30		07/28/11
Carbazole	86-74-8	<200	23000	ug/kg	66.6	50 - 140	7.90	30		07/28/11
Di-n-butylphthalate	84-74-2	<200	24000	ug/kg	86.7	50 - 140	11.30	30		07/28/11
3,3-Dichlorobenzidine	91-94-1	<200	17000	ug/kg	62	50 - 140	17.50	30		07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Bis-(2-Ethylhexyl)phthalate	117-81-7	<200	25000	ug/kg	91.3	50 - 140	12.30	30		07/28/11
Di-n-octylphthalate	117-84-0	<200	24000	ug/kg	88.2	50 - 140	12.90	30		07/28/11
Benzo(a)pyrene	50-32-8	<200	25000	ug/kg	88.9	50 - 140	13.50	30		07/28/11
Bis(1-Chloro-2-propyl)ether	108-60-1	<200	24000	ug/kg	87.9	50 - 140	10.00	30		07/28/11
4-Chloroaniline	106-47-8	<300	20000	ug/kg	58	50 - 140	19.90	30		07/28/11

Quality Control Report

Attention Steve McKinney
Department Wet Chemistry

Group # WSCF112796

QC Batch 187153
Associated Samples 112796001

Test Cyanide by Midi/Spectrophotometer

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #61747**								
Cyanide	57-12-5		<4.0	ug/L						U	07/28/11
LCS			**QC Sample #61749**								
Cyanide	57-12-5		51.2	mg/kg	94.5	85 - 115				X	07/28/11
MS			**QC Sample #61750**								
			Original 112794001								
Cyanide	57-12-5		1.89	mg/kg	94.7	75 - 125					07/28/11
MSD			**QC Sample #61751**								
			Original 112794001						**Paired**	**61750**	
Cyanide	57-12-5		2.03	mg/kg	102.1	75 - 125	7.30	20			07/28/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112796

QC Batch 187365
Associated Samples 112796001

Test Anions by Ion Chromatography (Solid)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61892**							
Fluoride	16984-48-8		<0.036	ug/mL					U	07/27/11
Chloride	16887-00-6		<0.062	ug/mL					U	07/27/11
Nitrite-N	14797-55-8		<0.020	ug/mL					U	07/27/11
Bromide	24959-67-9		<0.083	ug/mL					U	07/27/11
Nitrate-N	7631-99-4		<0.019	ug/mL					U	07/27/11
Phosphate-P	14265-44-2		<0.050	ug/mL					U	07/27/11
Sulfate	14808-79-8		<0.072	ug/mL					U	07/27/11
LCS			**QC Sample #61893**							
Fluoride	16984-48-8		0.971	ug/mL	98.1	90 - 110				07/27/11
Chloride	16887-00-6		1.84	ug/mL	93	90 - 110				07/27/11
Nitrite-N	14797-55-8		0.965	ug/mL	98.6	90 - 110				07/27/11
Bromide	24959-67-9		3.93	ug/mL	100.2	90 - 110				07/27/11
Nitrate-N	7631-99-4		0.892	ug/mL	100.8	90 - 110				07/27/11
Phosphate-P	14265-44-2		1.85	ug/mL	96.8	90 - 110				07/27/11
Sulfate	14808-79-8		3.71	ug/mL	94.6	90 - 110				07/27/11
MS			**QC Sample #61894**							
			Original 112788001							
Fluoride	16984-48-8		21.5	mg/kg	85.8	80 - 120				07/27/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Chloride	16887-00-6		43.9	mg/kg	87.6	80 - 120					07/27/11
Nitrite-N	14797-55-8		22.6	mg/kg	91.5	80 - 120					07/27/11
Bromide	24959-67-9		93.3	mg/kg	94.2	80 - 120					07/27/11
Nitrate-N	7631-99-4		22.4	mg/kg	100	80 - 120					07/27/11
Phosphate-P	14265-44-2		41.2	mg/kg	85.4	80 - 120					07/27/11
Sulfate	14808-79-8		89.4	mg/kg	90.2	80 - 120					07/27/11
MSD			**QC Sample #61895**								
			Original 112788001						**Paired**	**61894**	
Fluoride	16984-48-8		22.3	mg/kg	88.8	80 - 120	4.00	30			07/27/11
Chloride	16887-00-6		45.2	mg/kg	89.8	80 - 120	3.00	30			07/27/11
Nitrite-N	14797-55-8		23.6	mg/kg	95	80 - 120	4.30	30			07/27/11
Bromide	24959-67-9		97.1	mg/kg	97.5	80 - 120	4.00	30			07/27/11
Nitrate-N	7631-99-4		22.9	mg/kg	101.9	80 - 120	2.50	30			07/27/11
Phosphate-P	14265-44-2		41.9	mg/kg	86.2	80 - 120	1.50	30			07/27/11
Sulfate	14808-79-8		89.8	mg/kg	90	80 - 120	0.40	30			07/27/11
DUP			**QC Sample #61896**								
			Original 112788001								
Fluoride	16984-48-8		<2.0	mg/kg			0.00	30		U	07/27/11
Chloride	16887-00-6		<3.4	mg/kg			22.60	30		U	07/27/11
Nitrite-N	14797-55-8		<1.1	mg/kg			0.00	30		U	07/27/11
Bromide	24959-67-9		<4.5	mg/kg			0.00	30		U	07/27/11
Nitrate-N	7631-99-4		<1.0	mg/kg			12.20	30		U	07/27/11
Phosphate-P	14265-44-2		<2.7	mg/kg			200.00	30	*	UX	07/27/11
Sulfate	14808-79-8		3.96	mg/kg			2.70	30		B	07/27/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112796

QC Batch 187367
Associated Samples 112796001

Test Ammonia(N) by IC (S)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
DUP			**QC Sample #61900**								
			Original 112794001								
Ammonia (N)	7664-41-7		<0.071	mg/kg			200.00	30	*	UX	07/28/11
MS			**QC Sample #61901**								
			Original 112794001								
Ammonia (N)	7664-41-7		16.9	mg/kg	67.9	75 - 125				N	07/28/11
MSD			**QC Sample #61902**								
			Original 112794001						**Paired**	**61901**	
Ammonia (N)	7664-41-7		17.7	mg/kg	70.8	75 - 125	4.40	30		N	07/28/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112796

QC Batch 186876
Associated Samples 112796001

Test Gamma Energy Analysis-general

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
IBLANK			**QC Sample #61515**							
Americium-241	14596-10-2		0.020	pCi/g					U	07/27/11
Antimony-125	14234-35-6		1.1E-3	pCi/g					U	07/27/11
Barium-133	13981-41-4		-0.0020	pCi/g					U	07/27/11
Cerium-144	14762-78-8		-0.0010	pCi/g					U	07/27/11
Cerium/Praseodymium-144	CE/PR-144		-0.0020	pCi/g					U	07/27/11
Cesium-134	13967-70-9		-0.019	pCi/g					U	07/27/11
Cesium-137	10045-97-3		-2.2E-3	pCi/g					U	07/27/11
Cobalt-60	10198-40-0		8.2E-4	pCi/g					U	07/27/11
Europium-152	14683-23-9		-2.9E-3	pCi/g					U	07/27/11
Europium-154	15585-10-1		1.8E-3	pCi/g					U	07/27/11
Europium-155	14391-16-3		7.5E-4	pCi/g					U	07/27/11
Niobium-94	14681-63-1		-1.4E-3	pCi/g					U	07/27/11
Potassium-40	13966-00-2		0.081	pCi/g						07/27/11
Radium-226	13982-63-3		0.079	pCi/g						07/27/11
Radium-228	15262-20-1		0.070	pCi/g						07/27/11
Ruthenium-106	13967-48-1		-0.042	pCi/g					U	07/27/11
Tin-126	15832-50-5		9.1E-3	pCi/g					U	07/27/11
Thorium-234	15065-10-8		-5.9E-3	pCi/g					U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Uranium-235	15117-96-1		7.6E-3	pCi/g						U	07/27/11
Zinc-65	13982-39-3		3.7E-3	pCi/g						U	07/27/11
Actinium-228	14331-83-0		0.11	pCi/g							07/27/11
Bismuth-212	14913-49-6		0.023	pCi/g						U	07/27/11
Bismuth-214	14733-03-0		0.11	pCi/g							07/27/11
Lead-212	15092-94-1		0.063	pCi/g							07/27/11
Lead-214	15067-28-4		0.099	pCi/g							07/27/11
Ruthenium-103	13968-53-1		3.3E-3	pCi/g						U	07/27/11
Tin-113	13966-06-8		2.7E-3	pCi/g						U	07/27/11
Thallium-208	14913-50-9		0.019	pCi/g							07/27/11
Beryllium-7	13966-02-4		-9.1E-3	pCi/g						U	07/27/11
Cobalt-57	13981-50-5		-1.2E-3	pCi/g						U	07/27/11
Manganese-54	13966-31-9		9.2E-4	pCi/g						U	07/27/11
LCS			**QC Sample #61516**								
Americium-241	14596-10-2		17000	pCi/sample	103.6	80 - 120					07/27/11
Cesium-137	10045-97-3		6500	pCi/sample	107.7	80 - 120					07/27/11
Cobalt-60	10198-40-0		10000	pCi/sample	104.2	80 - 120					07/27/11
DUP			**QC Sample #61517**								
			Original 112795001								
Americium-241	14596-10-2		0.037	pCi/g			3.40	30		U	07/27/11
Antimony-125	14234-35-6		-2.9E-4	pCi/g			-181.70	30	*	U	07/27/11
Barium-133	13981-41-4		6.7E-3	pCi/g			1182.10	30	*	U	07/27/11
Cerium-144	14762-78-8		-0.026	pCi/g			-104.20	30	*	U	07/27/11
Cerium/Praseodymium-144	CE/PR-144		-0.052	pCi/g			-104.20	30	*	U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit		RQ	Analyzed
Cesium-134	13967-70-9		-0.042	pCi/g		-158.10	30	*	U	07/27/11
Cesium-137	10045-97-3		-7.5E-3	pCi/g		-18.10	30		U	07/27/11
Cobalt-60	10198-40-0		0.048	pCi/g		46.40	30	*		07/27/11
Europium-152	14683-23-9		0.0060	pCi/g		22.90	30		U	07/27/11
Europium-154	15585-10-1		-0.031	pCi/g		-42.50	30	*	U	07/27/11
Europium-155	14391-16-3		0.066	pCi/g		7.60	30		U	07/27/11
Niobium-94	14681-63-1		-1.1E-3	pCi/g		-117.70	30	*	U	07/27/11
Potassium-40	13966-00-2		20	pCi/g		2.00	30			07/27/11
Radium-226	13982-63-3		0.61	pCi/g		46.30	30	*		07/27/11
Radium-228	15262-20-1		0.69	pCi/g		10.70	30			07/27/11
Ruthenium-106	13967-48-1		-6.7E-3	pCi/g		-163.50	30	*	U	07/27/11
Tin-126	15832-50-5		0.20	pCi/g		2.20	30			07/27/11
Thorium-234	15065-10-8		1.3	pCi/g		36.50	30	*		07/27/11
Uranium-235	15117-96-1		0.25	pCi/g		89.90	30	*		07/27/11
Zinc-65	13982-39-3		-0.012	pCi/g		1170.40	30	*	U	07/27/11
Actinium-228	14331-83-0		0.74	pCi/g		20.30	30			07/27/11
Bismuth-212	14913-49-6		0.89	pCi/g		14.40	30			07/27/11
Bismuth-214	14733-03-0		0.70	pCi/g		53.10	30	*		07/27/11
Lead-212	15092-94-1		0.79	pCi/g		0.20	30			07/27/11
Lead-214	15067-28-4		0.60	pCi/g		45.90	30	*		07/27/11
Ruthenium-103	13968-53-1		-2.2E-3	pCi/g		-331.30	30	*	U	07/27/11
Tin-113	13966-06-8		3.8E-3	pCi/g		81.30	30	*	U	07/27/11
Thallium-208	14913-50-9		0.36	pCi/g		7.60	30			07/27/11
Beryllium-7	13966-02-4		-0.032	pCi/g		-42.90	30	*	U	07/27/11
Cobalt-57	13981-50-5		4.4E-3	pCi/g		45.60	30	*	U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Manganese-54	13966-31-9		0.014	pCi/g			125.00	30	*	U	07/27/11

Quality Control Report

Attention Steve McKinney
Department Radiochemistry

Group # WSCF112796

QC Batch 187046
Associated Samples 112796001

Test TC99 by Liquid Scintillation

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61619**							
Technetium-99	14133-76-7		0.0	pCi/g					U	07/28/11
LCS			**QC Sample #61620**							
Technetium-99	14133-76-7		8.1	pCi/g	98.7	80 - 120				07/28/11
DUP			**QC Sample #61621**							
			Original 112794001							
Technetium-99	14133-76-7		0.41	pCi/g			0.00	30		07/28/11
MS			**QC Sample #61622**							
			Original 112794001							
Technetium-99	14133-76-7		32	pCi/g	96.1	75 - 125				07/28/11

Quality Control Report

Attention Steve McKinney
Department Inorganic

Group # WSCF112796

QC Batch 187367
Associated Samples 112796001

Test Ammonia(N) by IC (S)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #61898**							
Ammonia (N)	7664-41-7		<1.4E-3	mg/L					U	07/28/11
LCS			**QC Sample #61899**							
Ammonia (N)	7664-41-7		0.182	mg/L	91.2	90 - 110				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

QC Batch 187051
Associated Samples 112796001

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #112796001**							
2-Fluorophenol	367-12-4				119.2	44 - 135				07/28/11
Phenol-d5	4165-62-2				121.6	41 - 136				07/28/11
Nitrobenzene-d5	4165-60-0				118.6	53 - 129				07/28/11
2-Fluorobiphenyl	321-60-8				119.2	36 - 141				07/28/11
2,4,6-Tribromophenol	118-79-6				97.5	17 - 142				07/28/11
Terphenyl-d14	98904-43-9				140.1	61 - 142				07/28/11
BLANK			**QC Sample #61638**							
2-Fluorophenol	367-12-4				106.6	44 - 135				07/28/11
Phenol-d5	4165-62-2				109.6	41 - 136				07/28/11
Nitrobenzene-d5	4165-60-0				107.2	53 - 129				07/28/11
2-Fluorobiphenyl	321-60-8				109.1	36 - 141				07/28/11
2,4,6-Tribromophenol	118-79-6				87.3	17 - 142				07/28/11
Terphenyl-d14	98904-43-9				119.5	61 - 142				07/28/11
LCS			**QC Sample #61639**							
2-Fluorophenol	367-12-4				113.1	19 - 140				07/28/11
Phenol-d5	4165-62-2				114.8	32 - 134				07/28/11
Nitrobenzene-d5	4165-60-0				114.3	60 - 122				07/28/11

Quality Control Report

Attention Steve McKinney
Department Organic, Semivolatiles

Group # WSCF112796

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2-Fluorobiphenyl	321-60-8				113.9	57 - 122				07/28/11
2,4,6-Tribromophenol	118-79-6				107	34 - 139				07/28/11
Terphenyl-d14	98904-43-9				120.2	49 - 147				07/28/11
MS			**QC Sample #61640**							
			Original 112796001							
2-Fluorophenol	367-12-4				105.7	44 - 135				07/28/11
Phenol-d5	4165-62-2				105	41 - 136				07/28/11
Nitrobenzene-d5	4165-60-0				106.3	53 - 129				07/28/11
2-Fluorobiphenyl	321-60-8				107.7	36 - 141				07/28/11
2,4,6-Tribromophenol	118-79-6				99.6	17 - 142				07/28/11
Terphenyl-d14	98904-43-9				122.6	61 - 142				07/28/11
MSD			**QC Sample #61641**							
			Original 112796001					**Paired**	**61640**	
2-Fluorophenol	367-12-4				94.4	44 - 135	9.00			07/28/11
Phenol-d5	4165-62-2				93.9	41 - 136	8.70			07/28/11
Nitrobenzene-d5	4165-60-0				93.3	53 - 129	10.60			07/28/11
2-Fluorobiphenyl	321-60-8				93.4	36 - 141	11.80			07/28/11
2,4,6-Tribromophenol	118-79-6				84.2	17 - 142	14.40			07/28/11
Terphenyl-d14	98904-43-9				99.7	61 - 142	18.20			07/28/11

Analytical Comment Report

Attention: Steve McKinney

Group # WSCF112796

Quality Control Comments

Department Inorganic

61896 B2FD58(112788001DUP)

Analyte Phosphate-P - Anions by Ion Chromatography (Solid)

[1] Duplicate is flagged for RPD out-of-limits. RPD does not apply to samples concentrations below the calibration range. RPD is calculated on measured values and not applicable for a result below the RDL.

61900 B2FB32(112794001DUP)

Analyte Ammonia (N) - Ammonia(N) by IC (S)

[1] Duplicate is flagged for RPD out-of-limits. RPD does not apply to samples concentrations below the calibration range. RPD is calculated on measured values and not applicable for a result below the RDL.

Analytical Comment Report

Attention: Steve McKinney

Group # WSCF112796

Quality Control Comments

Department Wet Chemistry

61749 LCS for HBN 187153 [AUTO/2668]

Analyte Cyanide - Cyanide by Midi/Spectrophotometer

[1] LCS Recovery is within standard manufacturers expected limits.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 3 pages
Including cover page

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory
PO Box 650 S3-30
Richland, WA 99352

ATTN: Melissa Garrard

Customer Code: WRPS
PO #:
Work Order #: 112796
Profile #: VADOSE 20111031-D
Proj. Mgr.:
Phone:

The following samples were received from you on 7/19/2011 2:25:00 PM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
		Tests scheduled		
112796001	B2FB34	SOIL	7/19/2011 10:00	7/19/2011 14:25
		8270SV-S; CN-S; COND-S; DRY-WEIGHT; GEA-S; IC-S; NH4IC-S; PH-S; TAB-S; TC99-S		

Test Acronym Description

Test Acronym	Description
8270SV-S	Semivolatiles by 8270D (S)
CN-S	Cyanide (Spectroscopy) (S)
COND-S	Conductivity (S)
DRY-WEIGHT	Dry Weight as Pct Moisture
GEA-S	Gamma Energy Analysis (S)
IC-S	Anions by IC (S)
NH4IC-S	Ammonia(N) by IC (S)
PH-S	pH (S)
TAB-S	Total Alpha/Beta (S)
TC99-S	Technetium-99 (S)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Assembler: N/A 112796		C.O.C. No. 20111031 Page 1 of 1
Collector: Campbell/Sharp	Contact/Requestor: Jo Marie Johnson/Steve McKinney	Telephone No. 372-9474 MSIN T6-02 FAX
SAF No.: N/A	Sample Origin: C Farm Vadose	Purchase Order/Charge Code
Project Title: C Farm CMA 2011-1	Logbook/ Work Package No.: N/A	Ice Chest No. Temp.
Shipped To (Lab): WSCF	Method of Shipment	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: per SDG	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	LAD 7-19-11 Sample Analysis	Preservative
	B2FB34		7-19-11		1 L glass	see List 1 (Lab Sample ID S11V005~~160~~) S11V005186	<6 C
	B2FB34		7-19-11		125 mL glass	Ship Outside Lab (Lab Sample ID S11V005447)	<6 C
						List 1: CN-EDTA, pH-solid, Tc-99 (1:1 water digest), conductivity, SVOA,	
						IC anions/small organic acids, ammonia, GEA screen, total activity.	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

SPECIAL INSTRUCTIONS
Send results to Steve McKinney (Steve G Mckinney@rl.gov) and Mellissa Garrard (see SOW for e-mail address)
Contract 36612, rel. 9

Hold Time: 7 days

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leslie Dixe [signature]	7/19/11 1425	Kayla Breazeal [signature]	7/19/11 1425
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix*
S = Soil
SE = Sediment
SO = Solid
SL = Sludge
W = Water
O = Oil
A = Air
DS = Drum Solids
DL = Drum Liquids
T = Tissue
WI = Wipe
L = Liquid
V = Vegetation
VA = Vapor
X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

DISTRIBUTION SHEET

To	From	Page 1 of 1
S. J. Eberlein	G. P. Ritenour	Date 6/12/12
Project Title/Work Order		EDT No. N/A
FINAL ANALYTICAL REPORT FOR SOIL SAMPLES FROM WASTE MANAGEMENT AREA C, CORE HOLES C8102, C8104, AND C8106, IN SUPPORT OF RCRA CLOSURE		ECN No. N/A

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
G. P. Ritenour	T6-10	X			
S. J. Eberlein	E6-31	X			
M. P. Connelly	E6-31	X			
D. R. Glaser	H6-13	X			
H. A. Sydnor	E6-31	X			
J. M. Johnson	T6-02	X			
S. G. McKinney	T6-02	X			
H. L. Anastos	T6-05	X			
A. Shrum	E6-31	X			
J. R. Prilucik	T6-02	X			
C. P. Mangano	H8-51	X			
S. A. Lynch	R3-50	X			
DOE Reading Room	H2-53	H			
C. J. Kemp	H6-60	X			
M. B. Triplett	H6-61	X			