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Final Analytical Report for Samples from Waste Management Area C for Core Holes: C7466 and C7468 in Support of RCRA Soil Characterization

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222-S LABORATORY

FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLES: C7466 AND C7468 IN SUPPORT OF RCRA SOIL CHARACTERIZATION

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222-S LABORATORY

FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLES: C7466 AND C7468 IN SUPPORT OF RCRA SOIL CHARACTERIZATION

1.0 INTRODUCTION

This final report presents the results for the samples taken from Waste Management Area C between July 30th and August 17th, 2009. The samples were analyzed in accordance with RPP-PLAN-40564, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C,* (FSAP); RPP-PLAN-3877, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C* (SAP); ATL-MP-1011, *ATL Quality Assurance Project Plan for 222-S Laboratory* (QAPP); *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (SW-846); 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 Reports
Attachment 4	Tentatively Identified Compounds (TIC) for Organic Analyses
Attachment 5	Correspondence
Attachment 6	Receipt Paperwork

This report also contains the following appendices.

Appendix A	Geologic Report
Appendix B	Analytical Raw Data

2.0 SAMPLE RECEIPT AND BREAKDOWN

2.1 SAMPLE RECEIPT

A total of 20 core intervals from two core holes along with one equipment blank and nine trip blanks were received by 222-S beginning July 30th and ending August 17th, 2009. The samples were delivered in a cooler with ice or, in the case of the volatile organic samples, in a freezer. The temperature of a randomly selected sample from each cooler or freezer was measured and recorded on the chain of custody. Laboratory sample receipt personnel failed to record the receipt temperature for the following samples:

- C7466 – I-004 all samples
- Trip Blank-2
- Equipment Blank

This was caused partially by the confusion from the delivery of multiple core projects at the same time and failure of laboratory personnel to follow the sample receipt procedure. These issues have been addressed and corrective measures have been taken. Many of the samples received were outside the required temperature ranges. This was due to the fact that these samples had not been in the cooler or freezer long enough to reach equilibrium. This can be verified, in most cases, by comparing the receipt time with the sampling time. The cooler and freezer walls were sometimes measured and were within the required temperature range. This temperature was not generally recorded since this measurement is not called out in the procedure. For future projects, the temperature of a temperature blank or the side of the cooler or freezer will be measured and recorded as described in SW-846.

2.2 SAMPLE BREAKDOWN

The laboratory received each core interval as a set of volatile organic analysis (VOA) samples and three liner samples, when complete core recovery was obtained. Two core intervals had less than full recovery (see Attachment 2 and Attachment 6). The surface samples were received as a set of VOA samples and two 500 mL jars. The liner samples from each core interval were extruded, described, and composited by the Washington River Protection Solutions, Inc. (WRPS) geologist. The surface samples were also described. The geologist's report is included in Appendix A. Provided sufficient samples existed, the composite for each core interval was analyzed as described in the SAP and FSAP. WRPS shipped a subsample of each composite to an offsite laboratory, when sufficient sample was available. The results of these analyses are not discussed in this report.

3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results for those analytes requested in the SAP and FSAP. Secondary analytes are only reported if detected. The TIC results from gas chromatography-mass spectrometry (GC/MS) analysis of semivolatile organic compounds (SVOC) and volatile organic compounds are presented in Attachment 4. 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. The aliquot classes are defined as follows:

"A" indicates samples that were prepared by SW846-3050B.

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

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

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

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

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

The "Qual Flags" column in Attachments 1 and 4 contain data qualifier flags that are defined as follows:

"B" is used to indicate that the analyte was detected in the method or preparation blank and in the sample, and the result for the blank was greater than 5% of the reported sample result.

"E" indicates that the result was above the calibration range.

"J" indicates that the reported result should be considered an estimate This flag was used in this report to denote:

- Results below the quantitation limit, but above the MDL.
- Results above MDA, but with a counting uncertainty greater than 30%.
- Results are estimated values.

"N" indicates a TIC which has been named.

"T" indicates a TIC.

"U" indicates that the reported result is less than the calculated detection limit.

"a" indicates that the laboratory control sample (LCS) was outside of the specified range in the QAPP or SAP.

"b" indicates that the matrix spike (MS) was outside of the specified range in the QAPP or SAP.

"c" indicates that the relative percent difference (RPD) between the sample and the duplicate is greater than 30%.

"e" indicates that the percent difference (%D) between the sample result and the serial dilution exceeded 10%.

"f" indicates that the MS failed and the serial dilution passed.

Manual calculations using rounded results from the Data Summary Report 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 10 grams of sample were digested, filtered, and diluted to a final volume of 100 or 125 mL. This digestion was used

for all radiochemical analyses except tritium, ^{14}C, and ^{129}I. This digestion is a leach of the acid soluble species only.

3.1.2 SW846-3050B - Acid Digestion-Heating Block

This acid digestion follows SW846-3050B using a heating block and nitric and hydrochloric acids. Approximately 0.25 g of sample was digested. All heating-block digestions were filtered and diluted to a final volume of 50 mL. In soil, this digestion is a leach of the acid soluble species only. This digestion was used for all inductively coupled plasma/mass spectrometry (ICP/MS) and inductively coupled plasma/atomic emission spectroscopy (ICP/AES) analyses except for ^{99}Tc and isotopic tin (^{117}Sn and ^{126}Sn) analysis. The digestion is modified for the ^{99}Tc analysis by using only nitric acid. This is done to eliminate the possibility of the formation a zinc-chlorine ion pair of mass 99. The laboratory believes this ion, when present, is responsible for low level false positives.

3.1.3 Water Digestion

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

3.2 INORGANIC ANALYSES

3.2.1 Cyanide

The cyanide analysis was performed on direct subsamples of the liner composite samples and the equipment blank. All analyses met the SW846 holding time of 14 days. There was no required reporting limit in the SAP for cyanide. The target detection limit was 0.5 µg/g, which is at least an order of magnitude lower than the current laboratory method (lachet micro-distillation) can reach.

Batches 15506 and 15820: There were no notable issues with these batches and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 15890: The MS failed low at 70% and the sample results have been flagged with a "b". This MS was originally analyzed in batch 15891 with a low recovery of 74%. Since the MS was distilled and analyzed twice with similar results the laboratory did not believe additional reanalysis was necessary.

Batch 15891: The MS originally contained in this batch was recovered low at 74% and was prepared and reanalyzed with all samples except S09V000957 in batch 15890. The MS was recovered low at 70% in the reanalysis. In order to include sample S09V000957, all samples were reported from the original analysis and flagged with a "b". The MS was reported in batch 15890. Since the client only required one MS per core hole (see Attachment 5), this project QC requirement was met.

3.2.2 Sulfide

Sulfide analysis was performed on direct subsamples of the liner composite samples and the equipment blank. All analyses met the SW846 holding time of 7 days except for the equipment blank by one day. There was no required reporting limit in the SAP for sulfide. The target detection limit was 5 μg/g. The sample results had adjusted MDLs of 6.3 to 7.4 μg/g.

Batches 15367, 15480, 15484, 15668, and 15753: There were no notable issues with these batches and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 15752: The RPD between the sample and duplicate exceeded the required 30% in the SAP at 33%. Since the sample result was below the quantitation limit, this criterion is not applicable. All QC requirements in the FSAP, SAP, and the QAPP were met for this batch.

3.2.3 pH Analysis

The pH analysis was performed on the liner composite samples and the equipment blank. These analyses met all QC requirements in the FSAP, SAP, and QAPP. The FSAP lists a pH holding time requirement of "as soon as possible." All pH measurements for the soils were taken immediately after the water leach was performed, but the sampling to analysis date varied from 1 to 16 days (see Attachment 3). There is no correlation between pH results and days to analysis, and the results fall within an expected range for alkaline soils. This indicates that the large variation in time had no apparent effect on the results. However, the client's expectation was that analysis would be performed within 14 days. Only 3 samples were analyzed outside of 14 days. Due to an oversight error by the laboratory's analytical staff, the pH for the equipment blank was analyzed 31 days after sampling. Since this analysis has little or no significance and was only performed in order to meet a requirement in DOE/RL-96-68, the overall data quality for the project was not affected. For future projects, the analysis will be performed in less time.

3.2.4 Mercury

Analysis for mercury was performed on digested subsamples of the liner composite samples and the equipment blank. All results met the QC requirements in the FSAP, SAP, and QAPP. All analyses met the holding time of 28 days.

This analysis met the target detection limits. The required detection limit of 0.01μg/g was not met for these samples. The detection limits vary from 0.018 μg/g to 0.048 μg/g. This was caused by using too small of an aliquot, and apparently was an oversight error by the laboratories analytical staff. The final batch report was not reviewed in time by the project manager for the samples to be reanalyzed within the holding time. The lowest risk-driven reporting limit requirement in Table 5-3 of the SAP was 0.1 μg/g, which was met.

3.2.5 Ion Chromatography - Ammonium

Analysis for ammonium was performed using a distillation preparation of the liner composite samples and the equipment blank. The SAP lists an administrative holding time of 7 days. The

laboratory believes that after distillation and preservation, the appropriateholding time is 28 days based on EPA drinking water and waste water holding times for preserved samples. There is no regulatory holding time limit promulgated for ammonium in soil. Three samples were analyzed outside of the administrative 7-day holding time: B20XX5 (S09V001022), B211W3 (S09V001023), and B211W6 (S09V001024). One sample B1YY17 (S09V000932), was analyzed outside of the EPA 28 day holding time. These missed holding times were apparently the result of an oversight error by the analytical staff. The laboratory is working on improvements in holding time expiration tracking. These analyses met the target detection limit listed in the SAP. There was no required reporting limit in the SAP or FSAP for ammonium.

Batches 15684, 15714, and 16081: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 15429: The duplicate RPD exceeded the required 30%. Since the results for these analytes were below the quantitation limit, the criterion does not apply.

Batch 15819: The spike and duplicate for this batch was reported in batch 15429. This met the client requirement of one spike and one duplicate per core hole (See Attachment 5).

3.2.6 Ion Chromatography – Anions and Small Organic Acids

Ion chromatography analysis was performed on a water digest of subsamples from all soil composite samples and a direct aliquot the equipment blank. The laboratory met all the required and target detection limits. All analyses were within the applicable holding time. All sample spikes used in this analysis are post digestion spikes. Current laboratory procedures and practices were developed for the analysis of concentrated waste, which typically does not include the use of predigestion spikes for this analysis. The laboratory will change to predigestion spike for future Vadose Projects.

In general, these samples experienced high RPDs in most batches, but only fluoride exceeded 30% with a result above the quantitation limit. Most samples were reanalyzed with little or no improvement. Other analyses also experienced high RPDs. The exact cause of the RPD failures is unknown at this time, but it is the laboratory's opinion that it is matrix related. The "c" flag has been applied to the fluoride results for all samples in the batch, not just the sample used for the duplicate analysis.

Only bromide and fluoride had required detection limits and these were met. All target detection limits were met.

Batch15462: Results met all quality control requirements.

Batch 16804: The RPD for acetate, formate, nitrite, and phosphate exceeded the required 30%. Since the results for these analytes were below the quantitation limit, the criterion does not apply. The RPD for fluoride also exceeded the 30% requirement in the SAP and the result was above the quantitation limit. All sample results for fluoride have been flagged with a "c." The preparation blank results for formate, nitrite, sulfate, and nitrate were above the MDL but less

than the quantitation limit. Therefore, the data quality was not affected and reanalysis was not required. Sample results were "B" flagged if the blank result exceed 5% of the sample result.

Batch16818: The RPD for acetate, formate, nitrite, sulfate, and nitrate exceeded the required 30%. Since the result for these analytes were below the quantitation limit, the criterion does not apply.

Batch 17017: This analytical batch contained two preparation batches. Formate was present in the second preparation blank at levels below the quantitation limit; therefore, reanalysis was not required. Sample results have been flagged with a "B" when appropriate. The RPD for sulfate and oxalate in the first preparation batch exceeded the required 30% in the SAP. Since the results for sulfate and oxalate were below the quantitation limit, the criterion does not apply. The RPD for fluoride also exceeded the 30% requirement and the results were all above the quantitation limit. Therefore, all sample results for fluoride in this preparation batch have been flagged with a "c".

3.2.7 Inductively Coupled Plasma/Atomic Emission Spectrometry

The ICP/AES analysis was performed on an acid-digest (SW846-3050B) of all liner composite samples and a direct aliquot the equipment blank. In general, the ICP/AES analysis experienced repeated failures for the duplicate RPDs, serial dilutions, and matrix spike recoveries. The laboratory believes these failures are due to interferences from high levels of iron and aluminum, and sample inhomogeneity. This is supported by the fact that there were no post digestion spike failures. The interference from the iron and aluminum appeared to cause signal suppression in most cases. The impact of this interference could be reduced by reanalyzing the samples using smaller aliquots or greater dilution, but this would cause some primary elements to be reported as estimated or non-detected above the required detection limits. This was discussed with the client, who agreed that reanalysis would not improve the overall analytical results (see Attachment 5). Additionally, it was noted that silicon experienced LCS failures and that reanalysis was not required for this secondary element. In particular, the digestion method used, which was an acid leach, does not produce consistent results for silicon. The amount of silicon leached from a highly siliceous material, like soil, is not consistent when using an acid leach. Also, the LCS recoveries are somewhat variable and may be related to the concentration and types of acid used. Silicon is not listed with other elements in SW846-3050B, section 1.1, under "Scope and Application" for the method.

The ICP/AES analysis was unable to obtain the required detection limit for antimony, arsenic, cadmium, lead, nickel, selenium, silver, thallium, and vanadium. These elements have been reported from separate ICP/MS analyses. Total uranium has been reported by the ICP/AES analysis but did not meet the required detection limits in the FSAP. Since the isotopic uranium analysis by ICP/MS met the required detection limit for ^{238}U, the overall data usability was not affected. For all other metals reported by ICP/AES, all target and required detection limits were met or the results were above the quantitation limit.

Batch 16815: The initial low level standard (LLS) recovery for lanthanum failed low at 50%. This indicates that results near the LLS could be biased low and have been flagged with "J" to indicate these results are estimated. Lanthanum is a secondary analyte. The LCS for silicon was

recovered low at 51% and the results have been flagged with an "a". This could indicate that results are biased low. Please see previous discussion concerning silicon. Since silicon is a secondary analyte, reanalysis was not required. Calcium and zinc were detected in the preparation blank below the quantitation limit and at less than 5% of the lowest sample result. Therefore, reanalysis was not required. The RPD for sulfur exceed the 30% requirement in the FSAP at 78% and a "c" flag has been applied to all results in the batch. Since sulfur is a secondary analyte, reanalysis is not required. The MS recoveries for aluminum, calcium, and iron failed to meet the FSAP criterion. Since the sample concentrations of these analytes exceeded four times the spike level, the MS recovery criterion does not apply. The MS recoveries for potassium, magnesium, and sodium exceeded the ±25% criterion in the SAP and FSAP. The associated sample results have been flagged with a "b." Since these are secondary analytes reanalysis was not required. The serial dilution results for manganese, silicon and titanium exceeded the QAPP requirement of 10% at 15%, 14%, and 11%, respectively. The laboratory believes this is due to matrix interference and/or sample inhomogeneity.

Batch 16819: The LCS for silicon was recovered low at 77% and the results have been flagged with an "a". This could indicate that results are biased low. Please see previous discussion concerning silicon. The preparation blank contained silicon and calcium below the quantitation limit and less than 5% of the lowest sample result. Therefore, reanalysis was not required. The MS recoveries for aluminum, calcium, iron, and magnesium failed to meet the FSAP criterion. Since the sample concentrations of these analytes exceeded four times the spike level, the MS recovery criterion does not apply. The MS recovery for sodium and silicon exceeded the ±25% criterion in the SAP and FSAP, and the results have been flagged with a "b." The laboratory believes this is a result of matrix interference due to the high levels of other elements in these samples and sample inhomogeneity. This was discussed with the client (see Attachment 5), and reanalysis was deemed unnecessary. The MS recovery for tantalum was 22%. The laboratory believes this was due to an issue with the standard. Since tantalum is not a required analyte, reanalysis was not required. The sample result has been flagged with a "b". The serial dilution results for silicon and sodium exceeded the QAPP requirement of 10% at 11% and 21%, respectively. The laboratory believes this is due to matrix interference and/or sample inhomogeneity. The closing LLS recovery for lanthanum was slightly above the 130% requirement in the analytical method at 136%. Since the lanthanum results were well above the LLS, the laboratory does not believe the data quality is affected. The RPD for tungsten exceeded the ±30% required by the FSAP and SAP. However, since the result was below the quantitation limit the criteria does not apply. The RPD for silicon exceeded the ± 30% requirement in the SAP and FSAP. Please see previous discussion concerning silicon. Since silicon is a secondary analyte, reanalysis was not required.

Batch 16820: The ending LLS for lanthanum exceeded the ±30% requirement in the QAPP at 136%. The lowest sample result has been flagged with a "J" indicating it could be biased high. The remainder of the sample results were well above the LLS level and were not flagged as estimated. The LSC was recovered low at 72% for silicon. The sample results have been flagged with an "a". The MS for titanium, potassium, and silicon failed high. The results have been flagged with a "b" (please see previous discussion concerning silicon). Since these are secondary analytes, reanalysis was not required. The RPDs for cerium, copper, potassium, lithium, and sodium, exceed the 30%, but the results were below the quantification limit; therefore, the criterion does not apply. The RPDs for chromium, lanthanum, neodymium,

titanium, yttrium, barium, zirconium, and magnesium exceeded the 30% requirement in the FSAP. All associated results have been flagged with a "c". As discussed above the laboratory believes these high RPDs were caused by matrix interference and/or sample inhomogeneity. The MS recoveries for aluminum, calcium, iron, and magnesium failed to meet the FSAP criterion. Since the sample concentrations of these analytes exceeded four times the spike level, the MS recovery criterion does not apply. The serial dilution for calcium exceed the ±10% requirement for calcium at 11% and silicon at 13%. Therefore, the calcium and silicon results have been flagged with an "e". The laboratory believes this was caused by matrix interference.

Batch 16892: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.2.8 Inductively Coupled Plasma/Mass Spectroscopy

The ICP/MS actinide and trace metal analyses were performed on the SW846-3050 acid digestion of all liner composite samples and on a direct aliquot of the equipment blank. The ICP/MS ^{126}Sn and ^{99}Tc analysis was performed using the same digest, without the addition of the hydrochloric acid. Hydrochloric acid is not used for ^{99}Tc analysis because of the potential isobaric interference.

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

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

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

3.2.8.1 Technetium-99 and Tin-126

The required detection limit listed in the SAP for ^{99}Tc was met. The target detection limit for ^{99}Tc was not met. There were no required or target detection limits for ^{126}Sn listed in the SAP. The FSAP lists a holding time of isotopic analytes as 6 months. All samples were initially analyzed within the holding time. However, due to an oversight, one sample, the equipment blank, was not analyzed within the holding time listed in the FSAP. This analysis exceeded the 180 day holding time by 10 days. Since there is no evidence that ^{99}Tc results would change over time when stored and acidified, the laboratory does not believe this exceedance affected the final results. In fact, the ^{99}Tc standards used for this analysis are stored in the same way and have a

one year shelf life based on laboratory procedure. The manufacturer does not list an expiration date for these standards.

Batches 16761 and 17846: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 16735: The preparation blank contained ^{99}Tc below the quantitation limit. All samples contained ^{99}Tc at a similar level, when the dilution factors were taken into account. Therefore, the sample results have been flagged with a "B". Since all ^{99}Tc results were below the quantitation level, reanalysis was not required.

Batch 17060: The ICB and CCB blanks contained ^{126}Sn below the quantification level. Since ^{126}Sn was not detected in the samples, the data quality was not affected and reanalysis was not required. The preparation blank contained ^{99}Tc below the quantitation limit. All samples contained ^{99}Tc at a similar level, when the dilution factors were taken into account. Therefore, the sample results have been flagged with a "B". Since all ^{99}Tc results were below the quantitation level, reanalysis was not required. The RPD for ^{99}Tc was greater than 30%, but the result was below the quantitation level; therefore, the criterion does not apply.

3.2.8.2 Actinides

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

Batch 16721: The preparation blank contained ^{238}U and ^{232}Th above the quantitation level but less than 5% of the lowest sample results, therefore no "B" flags were applied and reanalysis was not required. The preparation blank contained ^{235}U below the quantitation level and less than 5% of the lowest sample result, therefore no "B" flags were applied and reanalysis was not required. The RPD for ^{234}U exceeded the 30% requirement in the SAP. However, since the result was below the quantitation level, this criterion does not apply.

Batch 16791: The ICB result for ^{232}Th was below the quantitation limit and the sample result was below the MDL; therefore, reanalysis was not required.

Batch 16797: The preparation blank result for ^{232}Th was above the quantitation limit but less than 5% of the sample results; therefore, reanalysis was not required and the data quality was not affected. The ICB and first CCB contained ^{236}U below the quantitation limit, which had no effect on the data quality, since the sample results were below the MDL. The RPD for ^{234}U exceeded the 30% requirement at 51%; since the sample result was below the quantitation limit, this criterion does not apply. The RPDs for ^{232}Th, ^{235}U and ^{238}U exceeded the 30% requirement in the SAP at 43%, 38%, and 34%, respectively. These results were reported from a re-preparation and reanalysis due to similar recoveries in the initial analysis. The second analysis used a larger sample aliquot size but there was still no improvement. Based on this, the laboratory believes the high RPDs are a result of sample inhomogeneity and additional reanalysis is would not provide improved results. All associated results have been flagged with a "c".

Batch 16918: The preparation blank result for ^{232}Th was below the quantitation limit and less than 5% of the sample results; therefore, reanalysis was not required and the data quality was not affected. The RPD for ^{233}U exceeded the 30% requirement in the SAP. Since the result was below the quantitation level, this criterion does not apply.

Batch 17028: The CCB result for ^{237}Np was below the quantitation limit and all sample results were below the MDL, therefore, reanalysis was not required.

3.2.8.3 Trace Metals

Antimony, arsenic, cadmium, lead, nickel, selenium, silver, thallium, and vanadium were analyzed by ICP/MS to obtain the required detection limits in the SAP. Additionally, some chromium and cobalt results were used from the ICP/MS analyses. Except for the required and target detection limits for selenium, all target and required detection limits were met or the sample results were above the quantitation limit and the sample detection limit criteria do not apply. The target detection limit for selenium was approximately an order of magnitude below the detection limit obtained by using ICP/MS. The laboratory does not anticipate reaching this detection limit for future projects. Ten of the twenty sample results for selenium were above the target detection limit due to matrix interference. The SW846 holding time for metal analysis is 6 months. All samples were analyzed within this holding time.

SW846-6020A requires that an interference check standard be used to determine possible isobaric or polyatomic ion interferences. The current laboratory procedure does not require the use of this standard, and it was not included in these analyses. However, interferences were mitigated by the use of the collision cell, or gas mode, of the instrument. This was used for arsenic and vanadium to mitigate chloride interference. The laboratory plans to use the required interference check standard for future projects.

Batch 16972: The preparation blank and mid-run CCB results for thallium were above the MDL but less than the quantitation limit. Since the blank result was greater than 5% of all sample results, a "B" flag has been applied. Reanalysis was not required since the blank result was below the quantitation limit. The duplicate RPD for thallium exceeded the 30% requirement at 53%. Since the sample result was below the quantitation level, this criterion does not apply.

Batch 16991: The preparation blank and two CCB results for nickel were above the MDL but less than the quantitation limit. Since the blank result was less than 5% of all sample results, reanalysis was not required. The preparation blank result for selenium was above the MDL. However, since all sample results were below the MDL, the data quality was not affected. The MS for selenium failed high at 135%. Since all selenium results were below the MDL, there was no effect on the data quality. The initial LLS for selenium was recovered at 270% and closing LLS for selenium was recovered at 68%. Since selenium was not detected in any of the samples, the data quality was not affected. The selenium concentration selected for the LLS was at the MDL and was determined to be too low. Some of the subsequent batches used a more appropriate LLS concentration of selenium.

Batch 17076: The preparation blank results for silver and thallium were above the MDL but less than the quantitation limit. Since the blank results were greater than 5% of all sample results, a "B" flag has been applied. Reanalysis was not required since the blank result was below the quantitation limit.

Batch 17146: The preparation blank result for selenium was above the MDL but less than the quantitation limit. However, since all sample results were below the MDL, the data quality was not affected. The duplicate RPD for lead exceeded the 30% requirement at 34%. Based on repeated RPD failures in other batches, the laboratory believes this high RPD was a result of

sample inhomogeneity and additional reanalysis was unnecessary. This was discussed with and accepted by the client (see Attachment 5).

Batch 17235: The duplicate RPD for silver exceeded the 30% requirement at 44%. Since the sample result was below the quantitation level, this criterion does not apply.

Batch 17286: The initial LLS for selenium was recovered at 33% and closing LLS for selenium was recovered at 16%. Since there was no instrument signal for selenium, even at a level below the MDL, the data quality was not affected. Due to matrix interference the detection limit for this batch for selenium was 10 times that of the other batches.

3.3 RADIOCHEMICAL ANALYSIS

The holding time listed in the FSAP for radioactive isotopes is 6 months. SW846 does not address holding times for these analytes. All radiochemical analyses met the 6-month holding time. Holding time tables for these analytes have not been included in Attachment 2. With the exception of ^{129}I analysis, tracers and spikes are added after the digestion. Historically the 222-S Laboratory has predominantly analyzed samples with high levels of radioactive isotopes. Adding enough tracer or spike to be detectable in these types of samples would increase the dose exposure for analytical personnel and be prohibitively expensive. Plans are in place to change this practice for environmental level samples and future Vadose Project samples will use predigestion spikes and tracers.

3.3.1 Gamma Energy Analysis

Gamma energy analysis was performed directly on approximately 60 mL of soil from all liner composite samples and the equipment blank. The GEA analysis met all the required detection limits in the SAP. The laboratory was unable to meet any of the target detection limits.

Batches 15411, 15679, 15680, and 16407: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 15709: This batch did not contain a field sample duplicate as required in the QAPP. However, the FSAP and SAP only requires one field duplicate per core hole (see Attachment 5). Since the client QC requirement was met, reanalysis was not required.

3.3.2 Strontium-89/90

Strontium-89/90 analysis was performed on a strong acid digest of all liner composite samples and a direct aliquot of the equipment blank. Twelve of the sample analyses met the required detection limit of 2.3 pCi/g listed in the FSAP. The remaining eight samples achieved a detection limit between 2.3 pCi/g and 4.1 pCi/g. No detection limit exceeded the lowest action limit of 23 pCi/g in Table 5.2 of the SAP. No sample results met the target detection limit.

Batches 16654, and 16666: There were no notable QC issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 16490: The preparation blank had a positive result slightly above the minimum detectable activity with a counting uncertainty of 108%. All samples were below the MDA and the data quality was not affected. Therefore reanalysis was not required.

3.3.3 Tritium

The tritium analysis was performed on a water leach of all liner composite samples and a direct aliquot of the equipment blank. This method only measured the tritium that can be dissolved in water. This analysis achieved the required detection limit in the FSAP, but could not meet the target detection limit. There were no notable issues with any of the tritium batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.4 Selenium-79

The ^{79}Se analysis was performed on a strong acid digest of all liner composite samples and a direct aliquot of the equipment blank. The analysis achieved the target detection limit in the FSAP. No required detection limit was listed. No standard is currently available for ^{79}Se. A calibration curve was developed using ^{14}C, which has a similar beta energy profile. Additionally, a cold carrier is used to monitor recovery and is measured gravimetrically. These results should be considered semi-quantitative. There were no notable issues with any of the ^{79}Se batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.5 Carbon-14

The ^{14}C analysis was performed on a water leach of all liner composite samples and a direct aliquot of equipment blank. This analysis will only detect water soluble forms of ^{14}C. There were no notable issues with the batches, and all QC requirements in the FSAP, SAP, and the QAPP were met. The analysis achieved the required detection limit in the FSAP but exceeded the target detection limit of 1 pCi/g. Most samples had detection limits of between 50 pCi/g and 80 pCi/g.

3.3.6 Nickel-63

The ^{63}Ni analysis was performed on a strong acid digest of all liner composite samples and a direct aliquot of the field blank. The analysis achieved the required detection limit in the FSAP but exceeded the target detection limit of 30 pCi/g. The samples had detection limits of between 50 pCi/g and 75 pCi/g.

Batches 16394, 16671, and 16767: There were no notable issues with these ^{63}Ni batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 16455: The preparation blank had a positive result slightly above the MDA with a counting uncertainty of 134%. The sample result was below the MDA, therefore reanalysis was not required.

3.3.7 Iodine-129

Analysis for ^{129}I was performed on an iodine specific fusion digest of all liner composite samples and the a direct aliquot of equipment blank. The required and target detection limits in the SAP were met. There were no notable issues with these batches, and all QC requirements were met.

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

Analysis for ^{241}Am, $^{243/244}Cm$, and ^{242}Cm was performed on a strong acid digest of all liner composite samples and a direct aliquot of the equipment blank. For this analysis, there were no notable issues with any batches and all QC requirements in the FSAP, SAP, and the QAPP were met. The required and target detection limits in the SAP were met.

3.3.9 Plutonium-238 and Plutonium-239/240

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

3.4 ORGANIC ANALYSES

3.4.1 Volatile Organic Analysis

The VOA was performed on all field samples by purge and trap. Field sampling, sample containers, and preservation followed SW846-5035. The soil samples were delivered in a freezer, in pre-weighed VOA vials with magnetic stir bars and approximately 5 g of sample. After receipt, the VOA samples were stored in a freezer. For each sample interval, an additional high level sample preserved in methanol and its associated methanol blank were also received. These were not used because none of the results for the frozen samples were above the calibration range. The exact weight of the sample and the tare weight of the VOA vials were recorded by sampling personnel and delivered with the samples. Nine liquid trip blank samples and one equipment blank were also received and analyzed. The samples were preserved with either HCl or H_2SO_4 to a pH < 2.

The holding time for all samples is 14 days. All samples met the required holding time except for soil samples B21207 (S09V0001120), and B21210 (S09V0001121). These samples were analyzed one day outside the holding due to internal standard and surrogate failures on the initial analysis, which was within the holding time. The laboratory believes that the effect of the holding time exceedance on sample results is minimal. A study by the Department of Energy and others have shown that exceedances of less than 2 weeks produce no statistical difference and only a few compounds are affected for up to 6 weeks (see Reference Section).

The VOA analysis met the target and required detection limits in the SAP with the following exceptions: one sample was slightly above the target detection limit for cis-1,2-dichloroethene, trans-1,2-dichloroethene, m,p-xylene, o-xylene, and TCE. These detection limit exceedances

were caused by a less than 5 g aliquot in the VOA vial. The laboratory cannot adjust the amount of sample when following SW846-5035 and must analyze them as received.

Loss of Internal Standards, Spike Compounds, and Surrogates: During the VOA analysis of the C Farm soil samples, low recoveries of the internal standards were frequently experienced. At times, the instrument produced no response at all for these monitoring compounds. The issue was extensively investigated and was isolated to only the C Farm soil samples. Liquid samples and laboratory prepared soil standards (using laboratory VOA vials and stir bars) were not affected. The C Farm soil samples were analyzed on different instruments, which eliminated instrumentation as the problem. The laboratory believes that this problem is related to the sample matrix and/or the oversized stir bars used by the client. The problem was determined to be some type of blockage that impeded purge flow. The laboratory eventually developed a technique that provided improved results. This technique consisted of lightly shaking the VOA vial while monitoring purge flow with an in-line flow meter. The laboratory has requested that the client discontinue the use of the large stir bar and use different VOA vials. The laboratory also determined that some of the VOA vials provided by the client leaked around the cap during purging.

The purpose of the internal standard is to compensate for fluctuation and drift in instrument response. The instrument responses for spikes, surrogates, or compounds found in the sample are adjusted based on their closest internal standard. A complete loss of internal standard undoubtedly invalidates the sample results. However, low internal standard recoveries do not necessarily mean that the data is unusable. SW846 only specifies minimum internal standard recovery requirements for the CCV, not the samples. While there are no regulatory limits for internal standard recoveries in a sample, there are practical limitations to the amount of fluctuation that can be tolerated before quantitation is affected. Typically that value is around the limits specified for the CCV (-50 to +100% drift). The further that the sample internal standards are from the established CCV limit, the more likely the quantitation is adversely affected. When internal standard recoveries fall outside these limits, surrogate recoveries may be used to evaluate any adverse effects on quantitation. On all samples exhibiting low internal standard responses, associated surrogate recoveries were evaluated to determine if the loss had significant effect on the reported results. Based on this evaluation, the laboratory believes that the VOA results contained in this report are useable.

Samples and their associated MS and matrix spike duplicate (MSD) were initially analyzed together in a single analytical run. However, because of the frequent internal standard failures, many reanalyses were required. Due to the limited number of extra sample vials (five per sample), the reanalysis did not typically contain the original sample, MS, and MSD. Consequently, the analytical batches contained in this report have sample and associated QC results for different analytical runs, which were often on different days. The construction of batches in this manner was necessary for the laboratory information management system to associate a sample and its MS/MSD pair. All information and data concerning the analysis and reanalysis are contained in the VOA section of Appendix B.

Hexane was present in all core samples and three trip blanks. None of the method blanks or the equipment blank contained hexane above the MDL. Sixteen of the core samples contain hexane above the quantitation limit and 3 samples were more than 10 times the quantitation limit. None

of the trip blanks contained hexane above the quantitation. This would indicate that soil contamination is a likely source of the hexane. However, since hexane was used in the sampler cleaning process, this cannot be ruled out as the source.

Methylene chloride was present in all trip blanks, the equipment blank and eight core samples. Eleven samples contained methylene chloride above the quantitation limit. Only one core sample contained methylene chloride above the quantitation limit. The method blank associated with this sample contained methylene chloride above the quantitation limit and was actually higher than the sample. The trip blank levels for methylene chloride were quite high (up to 100 times the quantitation limit), but the associated method blanks were below the quantitation limit and one was below the MDL. This indicates that the methylene chloride found in the trip blanks and equipment blank is contamination from the water used to make these blanks. The lower results for methylene chloride in the core samples and method blanks appear to be laboratory contamination.

Styrene was detected in eight core samples below the quantitation limit. Styrene was not detected in any blanks. At this low concentration, the styrene could represent soil contamination or possibly a natural plant product.

The discussion below of the individual batches will not contain additional information concerning the low recoveries of internal standards. Detailed information for each sample is contained in Appendix B.

Batches 15470 and 16176: Other than the issues addressed in the preceding paragraphs, all QC requirements in the SAP, FSAP, and ATL-MP-1011 were met for these batches.

Batch 16172: Methylene chloride was detected in the method blank at a concentration above its MDL but below the quantitation limit. Methylene chloride was detected in all samples in this batch above the quantitation limit. However, the concentration of methylene chloride in the blank was greater than 5% of the concentration of methylene chloride detected in the samples. Therefore, the samples were "B"-flagged. Since the concentration of methylene chloride was less than the quantitation limit, reanalysis was not required. Toluene was also detected in the method blank and the samples at concentrations above the MDL but below the quantitation limit. The samples were "B"-flagged, because the concentration of toluene in the blank was greater than 5% of concentration of toluene in the samples. Since the concentration of toluene in the samples and blank were below the quantitation limit, reanalysis was not required. All samples in this batch were blanks.

Batch 16177: The method blank contained methylene chloride at a concentration above the MDL but below the quantitation limit . Methylene chloride was detected below the quantitation limit in all samples in this batch except one. Since the blank result was more that 5% of the sample results above the MDL, these results have been flagged with a "B". Since all results were below the quantitation limit, reanalysis was not required.

Batch 16178: Methylene chloride was detected in the method blank at concentrations above the MDL, but below the quantitation limit. Since the concentrations of methylene chloride in the samples were below the MDL, reanalysis was not required. An MS/MSD pair was not included

in this analytical batch. The MS/MSD for this core (C7466) was contained in batch 15470. This meets the requirements in the SAP and FSAP of one MS/MSD per core hole. (see Attachment 5).

Batch 16179: All samples in this batch were trip blanks. Methylene chloride was detected in the method blank at a concentration above its MDL but below the quantitation limit. Methylene chloride was detected in all samples in this batch above the quantitation limit. However, the concentration of methylene chloride in the blank was greater than 5% of the concentration of methylene chloride detected in the one of the samples. Therefore, this sample was flagged with a "B". Since the concentration of methylene chloride was less than the quantitation limit, reanalysis was not required. Acetone was also detected in the instrument blank above the MDL but below the quantitation limit. The samples did not contain acetone above the MDL, therefore reanalysis was not required. In one sample, the concentration of methylene chloride exceeded the highest calibration point by 300%. Due to instrument failure the laboratory was unable to reanalyze this sample within the holding time. Since the sample was a trip blank, and high concentration of methylene chloride only demonstrated another example of contamination of make-up water for the blanks, additional analyses outside the holding time were not performed. The sample result has been flagged with an "E".

Batch 16180: All samples in this batch were blanks. Methylene chloride was detected in the method blank at a concentration above its MDL and slightly below the quantitation limit. Methylene chloride was detected in all samples in this batch above the quantitation limit. However, the concentration of methylene chloride in the blank was greater than 5% of the concentration of methylene chloride detected in the samples. Therefore, the samples were "B" flagged. Since the concentration of methylene chloride in the blank was less than the quantitation limit, reanalysis was not required. Toluene was also detected in the method blank and the samples at concentrations above the MDL, but below the quantitation limit. The samples were "B" flagged, since the concentration of toluene in the blank is greater than 5% of concentration of toluene in the samples. Since the concentration of toluene in the samples and blank were below the quantitation limit, reanalysis was not required. In the MS, acetone was recovered below the ±30% required in the SAP at 63%. All sample results for acetone have been flagged with "b". All sample results for acetone were below the MDL.

Batch 16181: An MS/MSD pair was not included in this analytical batch. The MS/MSDs for this core (C7468) were contained in batches 16177 and 16182. This meets the requirements in the SAP and FSAP of one MS/MSD per core hole (see Attachment 5). The %D for trans-1,2-dichloroethene was 24%. The result for this compound was below the expected value. Results above the MDL could be biased low. However, the sample result was below the MDL. The average %D for the CCV was 5.8%, which meets QAPP requirements.

Batch 16182: Methylene chloride was detected in the method blank at a concentration above its MDL and slightly below the quantitation limit. Methylene chloride was detected in all samples at approximately the same level as the blank. Since the concentration of methylene chloride in the blank was greater than 5% of the concentration of methylene chloride detected in the samples, the samples were "B" flagged. Since the concentration of methylene chloride in the method blank was less than the quantitation limit, reanalysis was not required. The MS recoveries for acetone, MIBK, and 2-butanone were above ±30% required in the SAP at 142%, 142%, and 135%, respectively. All sample results for these compounds were below the MDL; therefore, the

data quality was not affected and reanalysis was not required. All results for these compounds have been flagged with "b".

Batch 16183: Acetone was detected in the blank at a concentration level above the MDL but below the quantitation limit. Since the sample result for acetone was below the MDL, reanalysis was not required. The MS/MSD RPD for acetone exceeded the 30% requirement in the SAP at 50%. Since acetone was not detected in the sample, reanalysis was not performed. Acetone has been flagged with a "c". Methylene Chloride was detected in the sample at a concentration that exceeded the upper calibration point and the result was "E"-flagged. The laboratory performed an additional run of the sample at a 1:9 dilution to bring the result within the calibration range. However, the second analysis required a new vial, and the result was only a quarter of the original result. The result of the first analysis was recorded with a "J" flag, and the data from the rerun is included as supporting data. This result should be considered estimated. The cause for the large variation in the concentration of methylene chloride between the two vials is not clear.

3.4.2 Semivolatile Organic Analysis

The semivolatile organic analysis (SVOA) was performed on methylene chloride extractions of all liner composite samples and the equipment blank. Each extract was analyzed twice using two separate calibration curves to provide calibrated results for all compounds listed in the FSAP and SAP. All holding times were met except for the extraction of sample B1YY17 (S09V000928), the equipment blank. This was caused by failure to assign the preparation test during sample log-in.

Ten of the twenty soil samples contained bis (2-ethylhexyl) phthalate. This compound was also detected in the equipment blank, but was not above the MDL in the method blanks. Additionally, low levels of butylbenzylphthalate were detected in two samples, but was not present in the method blanks or equipment blank. Low levels of phthalates may represent contamination of the samples during sampling and/or analysis, but environmental contamination also could be the source. If laboratory contamination is present, it will usually appear in the method blank. Due to the prevalence of low level phthalate contamination in the environment, it can be hard to determine the source of low level results. Equipment blanks can help isolate the source of phthalates. In this case the equipment blank result for bis (2-ethylhexyl) phthalate was only 1.05 times the MDL and two of the samples were approximately five times the MDL and one was 12 times the MDL. This would indicate, that for at least these three sample, the source for the bis (2-ethylhexyl) phthalate was not the sampling device. One possible source of phthalate could be the red plastic end caps used with the liners. It is the laboratory's opinion that the use of these end caps should be discontinued.

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

- The adjusted MDLs for cyclohexanone were above the 0.5 mg/kg target detection limit for most samples. This compound obtained detection limits between 0.51 mg/kg an 0.56 mg/kg.

- The adjusted MDLs for di-n-butyl-phthalate were above the target detection limit of 0.33 mg/kg. The analysis achieved a detection limit of between 0.51 mg/kg and 0.56 mg/kg for this compound.

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

Batch 15813 and 16154: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 15818: All QC requirements were met. However, large cyclohexane, methyl cyclopentane, and hexane peaks were detected and tentatively indentified during the analysis of the samples. The laboratory believes that these compounds were present in the methylene chloride used for the extraction and are therefore not reported as TICs.

Batch 16153: On the second analysis the surrogate 2-fluorobiphenyl was recovered below the laboratory's administrative limits of 50% to 150% at 49% in the equipment blank sample. Since only 6 compounds were reported from this analysis, and none are generally associated with this surrogate, the laboratory believes that there was little or no affect on the overall data quality.

Batch 16157: On the second analysis, the surrogate terphenyl-d14- was recovered below the SPC limits of 71%-175% at 70% in the method blank. This is only slightly low and should not affect the results, which were all below the MDL for the method blank.

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 each TIC was calculated using measured response factors from the Hanford library compound list.

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

4.0 PROCEDURES

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

Table 2. Analytical Procedures.

Analysis	Preparation Method	Analysis Procedure
Inorganic Analyses		
Cyanide (solid)	LA-695-103, Rev. J-0, (SW-846 9010C)	LA-695-103, Rev. J-0 (SW-846 9014)
Cyanide (liquid)	LA-695-102, Rev. L-0 (SW-846 9010C)	LA-695-102, Rev. L-0 (SW-846 9014)
Sulfide	LA-361-101, Rev. D-0 (SW-846 9030B)	LA-361-101, Rev. D-0 (SW-846 9215)
pH (solid)	LA-212-105, Rev. G-0 (SW-846 9045D)	LA-212-105, Rev. G-0 (SW-846 9045D)
pH (liquid)	Direct	LA-212-106, Rev. H-0 (SW-846 9040C)
Mercury – Cold Vapor Atomic Absorption	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)	LA-325-106, Rev. G-0 (SW-846, 7470A, 7471A)
Ammonia – IC	LA-544-112, Rev. D-0	LA-533-101, Rev. P-0
Anions & Organic Acids – IC	LA-504-101, Rev. L-0	LA-533-115, Rev. J-0
Metals – ICP /AES	LA-505-163, Rev. F-0 (SW-846 3050B)	LA-505-161, Rev. J-0A (SW-846 6010C)
^{99}Tc, ^{126}Sn – ICP/MS	LA-505-163, Rev. F-0 (SW-846 3050B)	LA-506-102, Rev. E-0
Metals – ICP/MS	LA-505-163, Rev. F-0 (SW-846 3050B)	LA-506-103, Rev. A-0 (SW-846 6020A)
Actinides – ICP/MS	LA-505-163, Rev. F-0 (SW-846 3050B)	LA-506-102, Rev. E-0
Radiochemical Analyses		
GEA	Direct	LA-548-121, Rev. I-0
^{90}Sr – Separation/Beta counting	LA-544-101, Rev. F-0	LA-220-101, Rev. I-0
Tritium – LSC	LA-504-101, Rev. L-0	LA-218-114, Rev. F-0
^{14}C – LSC	LA-504-101, Rev. L-0	LA-348-104, Rev. H-0
^{79}Se – Separation/LSC	LA-544-101, Rev. F-0	LA-365-132, Rev. I-0
^{63}Ni – Separation/LSC	LA-544-101, Rev. F-0	LA-285-102, Rev. D-0
^{129}I – Separation/GEA (solid)	LA-378-105, Rev. C-0	LA-378-105, Rev. C-0
^{129}I – Separation/GEA (liquid)	LA-378-103, Rev. K-0	LA-378-103, Rev. K-0
^{241}Am, $^{243/244, 242}$Cm – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
$^{239/240, 238}$Pu – Separation/AEA	LA-544-101 Rev. F-0	LA-953-104, Rev. H-1
Organic Analyses		
VOC – GC-MS	Direct	LA-523-118, Rev. G-0, (SW-846 8260B)
SVOC – GC/MS (solid)	LA-523-138, Rev. F-0 (SW846-3540C)	LA-523-135, Rev. C-0 (SW-846 8270C)
SVOC – GC/MS (liquid)	LA-523-115, Rev. G-0 (SW846-3540C)	LA-523-135, Rev. C-0 (SW-846 8270C)

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Attachment 1

DATA SUMMARY REPORT

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DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary Report

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B1YY17
Sample Depth: Equipment Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000927			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000927			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V000927			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000927			75-35-4	1,1-Dichloroethene	ug/L	99.0	<0.170	<0.189	n/a	n/a	n/a	n/a	0.189	n/a	U
S09V000927			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000927			71-36-3	1-Butanol	ug/L	78.3	<7.77	<8.63	n/a	n/a	n/a	n/a	8.63	n/a	U
S09V000927			108-10-1	Hexone	ug/L	99.2	<0.880	<0.978	n/a	n/a	n/a	n/a	0.978	n/a	U
S09V000927			67-64-1	Acetone	ug/L	90.2	<2.19	<2.43	n/a	n/a	n/a	n/a	2.43	n/a	U
S09V000927			71-43-2	Benzene	ug/L	102	<0.160	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S09V000927			75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000927			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000927			67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000927			108-90-7	Chlorobenzene	ug/L	100	<0.110	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S09V000927			100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V000927			1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V000927			78-93-3	2-Butanone	ug/L	94.9	<1.33	<1.48	n/a	n/a	n/a	n/a	1.48	n/a	U
S09V000927			75-09-2	Methylenechloride	ug/L	n/a	0.211	2.61	n/a	n/a	n/a	n/a	0.189	n/a	B
S09V000927			127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V000927			108-88-3	Toluene	ug/L	105	0.555	0.487	n/a	n/a	n/a	n/a	0.133	n/a	BJ
S09V000927			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V000927			79-01-6	Trichloroethene	ug/L	102	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000927			75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V000927			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V000927			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000927			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000927			79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V000927			141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V000927			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U

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C Farm WMA C
Data Summary Report

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Core Number: C7466
Customer Sample ID: B1YY17
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000927		75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V000927		95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000927		106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U
S09V000928	O	120-82-1	1,2,4-Trichlorobenzene	ug/L	46.2	<25.5	<25.5	n/a	n/a	n/a	44.4	25.5	n/a	U
S09V000928	O	95-50-1	1,2-Dichlorobenzene	ug/L	n/a	<71.1	<71.1	n/a	n/a	n/a	n/a	71.1	n/a	U
S09V000928	O	106-46-7	1,4-Dichlorobenzene	ug/L	40.2	<14.7	<14.7	n/a	n/a	n/a	39.6	14.7	n/a	U
S09V000928	O	121-14-2	2,4-Dinitrotoluene	ug/L	82.7	<13.5	<13.5	n/a	n/a	n/a	76.0	13.5	n/a	U
S09V000928	O	95-95-4	2,4,5-Trichlorophenol	ug/L	n/a	<16.3	<16.3	n/a	n/a	n/a	n/a	16.3	n/a	U
S09V000928	O	88-06-2	2,4,6-Trichlorophenol	ug/L	n/a	<17.2	<17.2	n/a	n/a	n/a	n/a	17.2	n/a	U
S09V000928	O	95-48-7	2-Methylphenol	ug/L	n/a	<20.6	<20.6	n/a	n/a	n/a	n/a	20.6	n/a	U
S09V000928	O	88-75-5	2-Nitrophenol	ug/L	n/a	<22.4	<22.4	n/a	n/a	n/a	n/a	22.4	n/a	U
S09V000928	O	108-39-4a	3 & 4 Methylphenol Total	ug/L	n/a	<20.6	<20.6	n/a	n/a	n/a	n/a	20.6	n/a	U
S09V000928	O	83-32-9	Acenaphthene	ug/L	68.2	<25.2	<25.2	n/a	n/a	n/a	64.1	25.2	n/a	U
S09V000928	O	56-55-3	Benzo(a)anthracene	ug/L	n/a	<17.2	<17.2	n/a	n/a	n/a	n/a	17.2	n/a	U
S09V000928	O	205-99-2	Benzo(b)fluoranthene	ug/L	n/a	<16.5	<16.5	n/a	n/a	n/a	n/a	16.5	n/a	U
S09V000928	O	50-32-8	Benzo(a)pyrene	ug/L	n/a	<15.5	<15.5	n/a	n/a	n/a	n/a	15.5	n/a	U
S09V000928	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/L	n/a	<51.2	53.7	n/a	n/a	n/a	n/a	51.2	n/a	J
S09V000928	O	207-08-9	Benzo(k)fluoranthene	ug/L	n/a	<15.8	<15.8	n/a	n/a	n/a	n/a	15.8	n/a	U
S09V000928	O	85-68-7	Butylbenzylphthalate	ug/L	n/a	<14.7	<14.7	n/a	n/a	n/a	n/a	14.7	n/a	U
S09V000928	O	59-50-7	4-Chloro-3-methylphenol	ug/L	71.0	<17.4	<17.4	n/a	n/a	n/a	66.3	17.4	n/a	U
S09V000928	O	95-57-8	2-Chlorophenol	ug/L	69.8	<23.9	<23.9	n/a	n/a	n/a	66.2	23.9	n/a	U
S09V000928	O	218-01-9	Chrysene	ug/L	n/a	<16.5	<16.5	n/a	n/a	n/a	n/a	16.5	n/a	U
S09V000928	O	53-70-3	Dibenz[a,h]anthracene	ug/L	n/a	<15.5	<15.5	n/a	n/a	n/a	n/a	15.5	n/a	U
S09V000928	O	84-74-2	Di-n-butylphthalate	ug/L	n/a	<14.9	<14.9	n/a	n/a	n/a	n/a	14.9	n/a	U
S09V000928	O	117-84-0	Di-n-octylphthalate	ug/L	n/a	<17.0	<17.0	n/a	n/a	n/a	n/a	17.0	n/a	U
S09V000928	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/L	68.2	<23.9	<23.9	n/a	n/a	n/a	65.7	23.9	n/a	U
S09V000928	O	206-44-0	Fluoranthene	ug/L	n/a	<15.3	<15.3	n/a	n/a	n/a	n/a	15.3	n/a	U
S09V000928	O	87-68-3	Hexachlorobutadiene	ug/L	n/a	<14.0	<14.0	n/a	n/a	n/a	n/a	14.0	n/a	U

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Data Summary Report

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Sample Depth: Equipment Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000928		O	67-72-1	Hexachloroethane	ug/L	n/a	<9.51	<9.51	n/a	n/a	n/a	n/a	9.51	n/a	U
S09V000928		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/L	n/a	<14.9	<14.9	n/a	n/a	n/a	n/a	14.9	n/a	U
S09V000928		O	108-95-2	Phenol	ug/L	70.9	<22.6	<22.6	n/a	n/a	n/a	66.6	22.6	n/a	U
S09V000928		O	91-20-3	Naphthalene	ug/L	n/a	<31.4	<31.4	n/a	n/a	n/a	n/a	31.4	n/a	U
S09V000928		O	98-95-3	Nitrobenzene	ug/L	n/a	<23.5	<23.5	n/a	n/a	n/a	n/a	23.5	n/a	U
S09V000928		O	100-02-7	4-Nitrophenol	ug/L	79.9	<12.3	<12.3	n/a	n/a	n/a	72.8	12.3	n/a	U
S09V000928		O	87-86-5	Pentachlorophenol	ug/L	77.1	<8.17	<8.17	n/a	n/a	n/a	70.8	8.17	n/a	U
S09V000928		O	129-00-0	Pyrene	ug/L	86.5	<15.8	<15.8	n/a	n/a	n/a	81.2	15.8	n/a	U
S09V000928		O	110-86-1	Pyridine	ug/L	n/a	<31.2	<31.2	n/a	n/a	n/a	n/a	31.2	n/a	U
S09V000928		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
S09V000928		O	128-37-0	BHT	ug/L	n/a	<97.1	<97.1	n/a	n/a	n/a	n/a	97.1	n/a	U
S09V000928		O	110-80-5	2-Ethoxyethanol	ug/L	n/a	<73.4	<73.4	n/a	n/a	n/a	n/a	73.4	n/a	U
S09V000928		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
S09V000928		O	108-94-1	Cyclohexanone	ug/L	n/a	<43.6	<43.6	n/a	n/a	n/a	n/a	43.6	n/a	U
S09V000928		O	59-89-2	N-Nitrosomorpholine	ug/L	n/a	<144	<144	n/a	n/a	n/a	n/a	144	n/a	U
S09V000928		O	78-83-1	Isobutanol	ug/L	n/a	<376	<376	n/a	n/a	n/a	n/a	376	n/a	U
S09V000929			7439-97-6	Mercury	ug/mL	92.8	<1.00E-04	<4.00E-04	n/a	n/a	n/a	105	4.00E-04	n/a	U
S09V000929			7440-22-4	Silver	ug/mL	94.4	<5.00E-03	<5.00E-03	n/a	n/a	n/a	n/a	5.00E-03	n/a	U
S09V000929			7429-90-5	Aluminum	ug/mL	99.9	<0.0300	<0.0300	<0.0300	n/a	n/a	101	0.0300	n/a	U
S09V000929			7440-38-2	Arsenic	ug/mL	99.7	<0.0500	<0.0500	n/a	n/a	n/a	n/a	0.0500	n/a	U
S09V000929			7440-39-3	Barium	ug/mL	100	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	101	3.00E-03	n/a	U
S09V000929			7440-41-7	Beryllium	ug/mL	97.1	<1.00E-03	<1.00E-03	<1.00E-03	n/a	n/a	96.6	1.00E-03	n/a	U
S09V000929			7440-70-2	Calcium	ug/mL	100	<0.0500	0.132	0.137	0.135	3.85	102	0.0500	n/a	J
S09V000929			7440-43-9	Cadmium	ug/mL	99.4	<5.00E-03	<5.00E-03	n/a	n/a	n/a	n/a	5.00E-03	n/a	U
S09V000929			7440-48-4	Cobalt	ug/mL	99.3	<0.0100	<0.0100	<0.0100	n/a	n/a	99.0	0.0100	n/a	U
S09V000929			7440-47-3	Chromium	ug/mL	100	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	99.6	5.00E-03	n/a	U
S09V000929			7440-50-8	Copper	ug/mL	100	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	102	5.00E-03	n/a	U
S09V000929			7439-89-6	Iron	ug/mL	99.1	<5.00E-03	0.0228	0.0222	0.0225	2.54	97.7	5.00E-03	n/a	J

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S09V000929			7440-09-7	Potassium	ug/mL	94.1	<0.500	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S09V000929			7439-93-2	Lithium	ug/mL	105	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	115	3.00E-03	n/a	U
S09V000929			7439-95-4	Magnesium	ug/mL	99.7	<0.0500	<0.0500	<0.0500	n/a	n/a	99.0	0.0500	n/a	U
S09V000929			7439-96-5	Manganese	ug/mL	98.3	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	100	3.00E-03	n/a	U
S09V000929			7439-98-7	Molybdenum	ug/mL	97.7	<0.0200	<0.0200	<0.0200	n/a	n/a	98.4	0.0200	n/a	U
S09V000929			7440-23-5	Sodium	ug/mL	104	<0.100	0.854	0.851	0.852	0.311	116	0.100	n/a	J
S09V000929			7440-02-0	Nickel	ug/mL	99.0	<0.0200	<0.0200	n/a	n/a	n/a	n/a	0.0200	n/a	U
S09V000929			7723-14-0	Phosphorus	ug/mL	100	<0.0500	<0.0500	<0.0500	n/a	n/a	101	0.0500	n/a	U
S09V000929			7439-92-1	Lead	ug/mL	101	<0.0500	<0.0500	n/a	n/a	n/a	n/a	0.0500	n/a	U
S09V000929			7440-36-0	Antimony	ug/mL	96.0	<0.0500	<0.0500	n/a	n/a	n/a	n/a	0.0500	n/a	U
S09V000929			7782-49-2	Selenium	ug/mL	101	<0.100	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000929			7440-21-3	Silicon	ug/mL	93.3	<0.0300	0.112	0.120	0.116	6.79	95.2	0.0300	n/a	J
S09V000929			7440-24-6	Strontium	ug/mL	99.5	<3.00E-03	<3.00E-03	<3.00E-03	n/a	n/a	100	3.00E-03	n/a	U
S09V000929			7440-28-0	Thallium	ug/mL	102	<0.100	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000929			7440-61-1	Uranium	ug/mL	101	<0.100	<0.100	<0.100	n/a	n/a	98.2	0.100	n/a	U
S09V000929			7440-62-2	Vanadium	ug/mL	100	<5.00E-03	<5.00E-03	n/a	n/a	n/a	n/a	5.00E-03	n/a	U
S09V000929			7440-66-6	Zinc	ug/mL	98.6	<5.00E-03	<5.00E-03	<5.00E-03	n/a	n/a	98.1	5.00E-03	n/a	U
S09V000929			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
S09V000929			TH-232	Thorium-232	ug/mL	99.7	<1.70E-07	<3.40E-07	<3.40E-07	n/a	n/a	97.7	3.40E-07	n/a	U
S09V000929			13968-55-3	Uranium-233	ug/mL	n/a	<1.00E-08	<2.00E-08	<2.00E-08	n/a	n/a	n/a	2.00E-08	n/a	U
S09V000929			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
S09V000929			15117-96-1	Uranium-235	ug/mL	103	<1.10E-08	<2.20E-08	<2.20E-08	n/a	n/a	96.9	2.20E-08	n/a	U
S09V000929			13982-70-2	Uranium-236	ug/mL	n/a	<4.00E-09	<8.00E-09	<8.00E-09	n/a	n/a	n/a	8.00E-09	n/a	U
S09V000929			13994-20-2	Neptunium-237	ug/mL	102	<5.30E-08	<1.06E-07	<1.06E-07	n/a	n/a	86.9	1.06E-07	n/a	U
S09V000929			U-238	Uranium-238	ug/mL	99.8	<5.50E-07	<1.10E-06	<1.10E-06	n/a	n/a	98.5	1.10E-06	n/a	U
S09V000929			14133-76-7	Technetium-99	ug/mL	96.8	<3.00E-07	<3.00E-07	<3.00E-07	n/a	n/a	103	3.00E-07	n/a	U
S09V000929			SN-117	Tin-117	ug/mL	103	<1.10E-05	<1.10E-05	<1.10E-05	n/a	n/a	99.7	1.10E-05	n/a	U
S09V000929			15832-50-5	Tin-126	ug/mL	n/a	<2.00E-07	<2.00E-07	<2.00E-07	n/a	n/a	n/a	2.00E-07	n/a	U

NA = Not Analyzed, ND = Not Detected

J - Estimated
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C Farm WMA C
Data Summary Report

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B1YY17
Sample Depth: Equipment Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000930			14762-75-5	Carbon-14	uCi/mL	98.8	<2.53E-07	<2.74E-07	<4.41E-07	n/a	n/a	96.7	2.74E-07	n/a	U
S09V000930			15046-84-1	Iodine-129	uCi/mL	96.0	<6.14E-08	<6.77E-08	<6.25E-08	n/a	n/a	n/a	6.77E-08	n/a	U
S09V000930			10028-17-8	Tritium	uCi/mL	84.4	<1.40E-06	<1.40E-06	<1.40E-06	n/a	n/a	83.4	1.40E-06	n/a	U
S09V000931			CM-243/244	Curium-243/244	uCi/mL	n/a	<2.17E-08	<1.85E-08	<1.98E-08	n/a	n/a	n/a	1.85E-08	n/a	U
S09V000931			14596-10-2	Americium-241	uCi/mL	101	<5.43E-08	<4.62E-08	<4.94E-08	n/a	n/a	n/a	4.62E-08	n/a	U
S09V000931			15510-73-3	Curium-242	uCi/mL	n/a	<2.17E-08	<1.85E-08	<1.98E-08	n/a	n/a	n/a	1.85E-08	n/a	U
S09V000931			10198-40-0	Cobalt-60	uCi/mL	96.8	<3.86E-07	<4.44E-07	<4.11E-07	n/a	n/a	n/a	4.44E-07	n/a	U
S09V000931			14234-35-6	Antimony-125	uCi/mL	n/a	<1.04E-06	<1.02E-06	<1.04E-06	n/a	n/a	n/a	1.02E-06	n/a	U
S09V000931			10045-97-3	Cesium-137	uCi/mL	101	<5.27E-07	<5.24E-07	<5.09E-07	n/a	n/a	n/a	5.24E-07	n/a	U
S09V000931			14683-23-9	Europium-152	uCi/mL	n/a	<2.14E-06	<2.08E-06	<2.21E-06	n/a	n/a	n/a	2.08E-06	n/a	U
S09V000931			15585-10-1	Europium-154	uCi/mL	n/a	<1.19E-06	<1.33E-06	<1.36E-06	n/a	n/a	n/a	1.33E-06	n/a	U
S09V000931			14391-16-3	Europium-155	uCi/mL	n/a	<6.64E-07	<6.46E-07	<6.47E-07	n/a	n/a	n/a	6.46E-07	n/a	U
S09V000931			13981-37-8	Nickel-63	uCi/mL	87.7	1.46E-06	<1.92E-06	1.65E-06	n/a	n/a	n/a	1.92E-06	n/a	U
S09V000931			PU-239/240	Plutonium-239/240	uCi/mL	96.4	<3.57E-08	<3.21E-08	<3.21E-08	n/a	n/a	n/a	3.21E-08	n/a	U
S09V000931			13981-16-3	Plutonium-238	uCi/mL	n/a	<3.57E-08	<3.21E-08	<3.21E-08	n/a	n/a	n/a	3.21E-08	n/a	U
S09V000931			15758-45-9	Selenium-79	uCi/mL	n/a	<2.28E-07	<2.46E-07	2.13E-07	n/a	n/a	n/a	2.46E-07	n/a	U
S09V000931			SR-89/90	Strontium-89/90	uCi/mL	96.6	3.04E-07	<3.26E-07	<2.16E-07	n/a	n/a	n/a	3.26E-07	n/a	U
S09V000932			16984-48-8	Fluoride	ug/mL	101	<1.61E-03	<1.61E-03	<1.61E-03	n/a	n/a	n/a	1.61E-03	n/a	U
S09V000932			666-14-8	Glycolate	ug/mL	102	<9.37E-03	<9.37E-03	<9.37E-03	n/a	n/a	n/a	9.37E-03	n/a	U
S09V000932			71-50-1	Acetate	ug/mL	101	<6.04E-03	<6.04E-03	<6.04E-03	n/a	n/a	n/a	6.04E-03	n/a	U
S09V000932			12311-97-6	Formate	ug/mL	104	<4.67E-03	0.0231	0.0238	0.0234	2.86	n/a	4.67E-03	n/a	J
S09V000932			16887-00-6	Chloride	ug/mL	101	<9.98E-03	0.319	0.331	0.325	3.68	n/a	9.98E-03	n/a	
S09V000932			14797-65-0	Nitrite	ug/mL	103	<0.0192	<0.0192	<0.0192	n/a	n/a	n/a	0.0192	n/a	U
S09V000932			14808-79-8	Sulfate	ug/mL	103	<0.0187	<0.0187	<0.0187	n/a	n/a	n/a	0.0187	n/a	U
S09V000932			338-70-5	Oxalate	ug/mL	103	<0.0231	<0.0231	<0.0231	n/a	n/a	n/a	0.0231	n/a	U
S09V000932			24959-67-9	Bromide	ug/mL	99.8	<0.0580	<0.0580	<0.0580	n/a	n/a	n/a	0.0580	n/a	U
S09V000932			14797-55-8	Nitrate	ug/mL	99.8	<0.0208	0.0436	0.0504	0.0470	14.4	n/a	0.0208	n/a	J
S09V000932			14265-44-2	Phosphate	ug/mL	101	<0.0167	<0.0167	<0.0167	n/a	n/a	n/a	0.0167	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B1YY17
Sample Depth: Equipment Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000932		S	14798-03-9	Ammonium	ug/mL	100	0.0512	<0.0120	<0.0120	n/a	n/a	98.7	0.0120	n/a	U
S09V000932			PH	pH	unitless	n/a	n/a	5.01	5.04	5.02	0.597	n/a	0.0100	n/a	
S09V000933			18496-25-8	Sulfide	ug/mL	91.9	<0.180	<7.20	n/a	n/a	n/a	n/a	7.20	n/a	U
S09V000934			57-12-5	Cyanide	ug/mL	116	<4.00E-03	<0.0200	<0.0200	n/a	n/a	106	0.0200	n/a	Ua

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C Farm WMA C
Data Summary Report

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B21733
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000848			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000848			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V000848			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000848			75-35-4	1,1-Dichloroethene	ug/L	99.0	<0.170	<0.189	n/a	n/a	n/a	106	0.189	n/a	U
S09V000848			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000848			71-36-3	1-Butanol	ug/L	78.3	<7.77	<8.63	n/a	n/a	n/a	86.5	8.63	n/a	U
S09V000848			108-10-1	Hexone	ug/L	99.2	<0.880	<0.978	n/a	n/a	n/a	110	0.978	n/a	U
S09V000848			67-64-1	Acetone	ug/L	90.2	<2.19	<2.43	n/a	n/a	n/a	106	2.43	n/a	U
S09V000848			71-43-2	Benzene	ug/L	102	<0.160	<0.178	n/a	n/a	n/a	108	0.178	n/a	U
S09V000848			75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000848			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000848			67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000848			108-90-7	Chlorobenzene	ug/L	100	<0.110	<0.122	n/a	n/a	n/a	104	0.122	n/a	U
S09V000848			100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V000848			1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V000848			78-93-3	2-Butanone	ug/L	94.9	<1.33	<1.48	n/a	n/a	n/a	107	1.48	n/a	U
S09V000848			75-09-2	Methylenechloride	ug/L	n/a	0.211	22.6	n/a	n/a	n/a	n/a	0.189	n/a	B
S09V000848			127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V000848			108-88-3	Toluene	ug/L	105	0.555	0.494	n/a	n/a	n/a	106	0.133	n/a	BJ
S09V000848			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V000848			79-01-6	Trichloroethene	ug/L	102	<0.150	<0.167	n/a	n/a	n/a	108	0.167	n/a	U
S09V000848			75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V000848			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V000848			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000848			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000848			79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V000848			141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V000848			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B21733
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000848			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V000848			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000848			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B21734
Sample Depth: Trip Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000849		71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000849		79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V000849		79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000849		75-35-4	1,1-Dichloroethene	ug/L	99.0	<0.170	<0.189	n/a	n/a	n/a	n/a	0.189	n/a	U
S09V000849		107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000849		71-36-3	1-Butanol	ug/L	78.3	<7.77	<8.63	n/a	n/a	n/a	n/a	8.63	n/a	U
S09V000849		108-10-1	Hexone	ug/L	99.2	<0.880	<0.978	n/a	n/a	n/a	n/a	0.978	n/a	U
S09V000849		67-64-1	Acetone	ug/L	90.2	<2.19	<2.43	n/a	n/a	n/a	n/a	2.43	n/a	U
S09V000849		71-43-2	Benzene	ug/L	102	<0.160	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S09V000849		75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000849		56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000849		67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000849		108-90-7	Chlorobenzene	ug/L	100	<0.110	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S09V000849		100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V000849		1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V000849		78-93-3	2-Butanone	ug/L	94.9	<1.33	<1.48	n/a	n/a	n/a	n/a	1.48	n/a	U
S09V000849		75-09-2	Methylenechloride	ug/L	n/a	0.211	3.36	n/a	n/a	n/a	n/a	0.189	n/a	B
S09V000849		127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V000849		108-88-3	Toluene	ug/L	105	0.555	0.545	n/a	n/a	n/a	n/a	0.133	n/a	BJ
S09V000849		10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V000849		79-01-6	Trichloroethene	ug/L	102	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000849		75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V000849		156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V000849		156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000849		76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000849		79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V000849		141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V000849		60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B21734
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000849			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V000849			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000849			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

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b - MS/MSD Outside Range

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C Farm WMA C
Data Summary Report

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B21735
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000850			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000850			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V000850			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000850			75-35-4	1,1-Dichloroethene	ug/L	90.8	<0.170	<0.189	n/a	n/a	n/a	n/a	0.189	n/a	U
S09V000850			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000850			71-36-3	1-Butanol	ug/L	76.3	<7.77	<8.63	n/a	n/a	n/a	n/a	8.63	n/a	U
S09V000850			108-10-1	Hexone	ug/L	94.7	<0.880	<0.978	n/a	n/a	n/a	n/a	0.978	n/a	U
S09V000850			67-64-1	Acetone	ug/L	85.1	<2.19	<2.43	n/a	n/a	n/a	n/a	2.43	n/a	U
S09V000850			71-43-2	Benzene	ug/L	94.5	<0.160	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S09V000850			75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000850			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000850			67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000850			108-90-7	Chlorobenzene	ug/L	97.8	<0.110	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S09V000850			100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V000850			1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V000850			78-93-3	2-Butanone	ug/L	86.2	<1.33	<1.48	n/a	n/a	n/a	n/a	1.48	n/a	U
S09V000850			75-09-2	Methylenechloride	ug/L	n/a	<0.170	3.45	n/a	n/a	n/a	n/a	0.189	n/a	
S09V000850			127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V000850			108-88-3	Toluene	ug/L	104	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V000850			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V000850			79-01-6	Trichloroethene	ug/L	96.8	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000850			75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V000850			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V000850			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000850			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000850			79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V000850			141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V000850			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U

NA = Not Analyzed, ND = Not Detected

J - Estimated
U - Less Than Detection Limit
B - Found in Blank
e - SERDIL Outside Range
c - RPD Outside Range
a - LCS Outside Range
f - MS failed/SERDIL OK
b - MS/MSD Outside Range
E - Outside Calibration Range

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C Farm WMA C
Data Summary Report

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B21735
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000850			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V000850			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000850			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

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B - Found in Blank
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e - SERDIL Outside Range
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C Farm WMA C
Data Summary Report

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B21736
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000851			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000851			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V000851			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000851			75-35-4	1,1-Dichloroethene	ug/L	84.4	<0.170	<0.189	n/a	n/a	n/a	n/a	0.189	n/a	U
S09V000851			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000851			71-36-3	1-Butanol	ug/L	91.1	<7.77	<8.63	n/a	n/a	n/a	n/a	8.63	n/a	U
S09V000851			108-10-1	Hexone	ug/L	114	<0.880	<0.978	n/a	n/a	n/a	n/a	0.978	n/a	U
S09V000851			67-64-1	Acetone	ug/L	102	2.59	<2.43	n/a	n/a	n/a	n/a	2.43	n/a	U
S09V000851			71-43-2	Benzene	ug/L	101	<0.160	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S09V000851			75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000851			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000851			67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000851			108-90-7	Chlorobenzene	ug/L	101	<0.110	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S09V000851			100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V000851			1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V000851			78-93-3	2-Butanone	ug/L	108	<1.33	<1.48	n/a	n/a	n/a	n/a	1.48	n/a	U
S09V000851			75-09-2	Methylenechloride	ug/L	n/a	0.402	12.3	n/a	n/a	n/a	n/a	0.189	n/a	
S09V000851			127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V000851			108-88-3	Toluene	ug/L	103	<0.120	0.674	n/a	n/a	n/a	n/a	0.133	n/a	J
S09V000851			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V000851			79-01-6	Trichloroethene	ug/L	102	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000851			75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V000851			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V000851			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000851			110-54-3	Hexane	ug/L	n/a	<0.270	0.822	n/a	n/a	n/a	n/a	0.300	n/a	J
S09V000851			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000851			79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V000851			141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B21736
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000851			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U
S09V000851			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V000851			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000851			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW6
Sample Depth: 5-7

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000885		%WATERA	%WATER-APD	%	n/a	n/a	4.710	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V000885		57-12-5	Cyanide	ug/g	107	<0.0370	<4.44	n/a	n/a	n/a	n/a	4.44	n/a	U
S09V000885		7439-97-6	Mercury	ug/g	104	<1.00E-04	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S09V000885		PH	pH	unitless	n/a	n/a	9.17	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000885		18496-25-8	Sulfide	ug/g	93.6	<0.180	23.1	n/a	n/a	n/a	n/a	6.38	n/a	J
S09V000887		13966-00-2	Potassium-40	uCi/g	n/a	<4.45E-06	1.30E-05	n/a	n/a	n/a	n/a	4.37E-06	22.34	
S09V000887		10198-40-0	Cobalt-60	uCi/g	101	<1.71E-07	<1.84E-07	n/a	n/a	n/a	n/a	1.84E-07	n/a	U
S09V000887		14234-35-6	Antimony-125	uCi/g	n/a	<4.00E-07	<5.00E-07	n/a	n/a	n/a	n/a	5.00E-07	n/a	U
S09V000887		10045-97-3	Cesium-137	uCi/g	108	<1.92E-07	4.44E-07	n/a	n/a	n/a	n/a	2.41E-07	34.86	J
S09V000887		14683-23-9	Europium-152	uCi/g	n/a	<8.14E-07	<9.28E-07	n/a	n/a	n/a	n/a	9.28E-07	n/a	U
S09V000887		15585-10-1	Europium-154	uCi/g	n/a	<5.13E-07	<6.31E-07	n/a	n/a	n/a	n/a	6.31E-07	n/a	U
S09V000887		14391-16-3	Europium-155	uCi/g	n/a	<3.07E-07	<3.84E-07	n/a	n/a	n/a	n/a	3.84E-07	n/a	U
S09V000887		15092-94-1	Lead-212	uCi/g	n/a	<2.32E-07	1.03E-06	n/a	n/a	n/a	n/a	4.09E-07	26.54	
S09V000887		14733-03-0	Bismuth-214	uCi/g	n/a	<3.67E-07	6.78E-07	n/a	n/a	n/a	n/a	3.86E-07	36.31	J
S09V000887		15067-28-4	Lead-214	uCi/g	n/a	<3.36E-07	6.04E-07	n/a	n/a	n/a	n/a	4.88E-07	43.74	J
S09V000887		14274-82-9	Thorium-228	uCi/g	n/a	<8.06E-06	<9.79E-06	n/a	n/a	n/a	n/a	9.79E-06	n/a	U
S09V000887		15065-10-8	Thorium-234	uCi/g	n/a	<6.34E-06	<8.23E-06	n/a	n/a	n/a	n/a	8.23E-06	n/a	U
S09V000887		15046-84-1	Iodine-129	uCi/g	95.2	<1.40E-07	<1.25E-07	n/a	n/a	n/a	n/a	1.25E-07	n/a	U
S09V000909	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	78.8	<77.4	<74.6	n/a	n/a	n/a	n/a	74.6	n/a	U
S09V000909	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<97.0	n/a	n/a	n/a	n/a	97.0	n/a	U
S09V000909	O	106-46-7	1,4-Dichlorobenzene	ug/kg	78.3	<113	<109	n/a	n/a	n/a	n/a	109	n/a	U
S09V000909	O	121-14-2	2,4-Dinitrotoluene	ug/kg	83.8	<38.1	<36.7	n/a	n/a	n/a	n/a	36.7	n/a	U
S09V000909	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<42.4	n/a	n/a	n/a	n/a	42.4	n/a	U
S09V000909	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S09V000909	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<55.4	n/a	n/a	n/a	n/a	55.4	n/a	U
S09V000909	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<51.7	n/a	n/a	n/a	n/a	51.7	n/a	U
S09V000909	O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S09V000909	O	83-32-9	Acenaphthene	ug/kg	82.9	<17.6	<17.0	n/a	n/a	n/a	n/a	17.0	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW6
Sample Depth: 5-7

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000909	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.4	n/a	n/a	n/a	n/a	36.4	n/a	U
S09V000909	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.1	n/a	n/a	n/a	n/a	47.1	n/a	U
S09V000909	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.7	n/a	n/a	n/a	n/a	39.7	n/a	U
S09V000909	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	1.84E+03	n/a	n/a	n/a	n/a	569	n/a	J
S09V000909	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S09V000909	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<48.2	n/a	n/a	n/a	n/a	48.2	n/a	U
S09V000909	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	76.6	<43.2	<41.6	n/a	n/a	n/a	n/a	41.6	n/a	U
S09V000909	O	95-57-8	2-Chlorophenol	ug/kg	78.6	<66.5	<64.1	n/a	n/a	n/a	n/a	64.1	n/a	U
S09V000909	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<78.4	n/a	n/a	n/a	n/a	78.4	n/a	U
S09V000909	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S09V000909	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<542	n/a	n/a	n/a	n/a	542	n/a	U
S09V000909	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.0	n/a	n/a	n/a	n/a	46.0	n/a	U
S09V000909	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	72.7	<58.1	<56.0	n/a	n/a	n/a	n/a	56.0	n/a	U
S09V000909	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.1	n/a	n/a	n/a	n/a	34.1	n/a	U
S09V000909	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<67.1	n/a	n/a	n/a	n/a	67.1	n/a	U
S09V000909	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V000909	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S09V000909	O	108-95-2	Phenol	ug/kg	80.0	<59.4	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S09V000909	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<60.3	n/a	n/a	n/a	n/a	60.3	n/a	U
S09V000909	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S09V000909	O	100-02-7	4-Nitrophenol	ug/kg	86.1	<52.6	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U
S09V000909	O	87-86-5	Pentachlorophenol	ug/kg	87.4	<37.5	<36.1	n/a	n/a	n/a	n/a	36.1	n/a	U
S09V000909	O	129-00-0	Pyrene	ug/kg	89.3	<62.9	<60.6	n/a	n/a	n/a	n/a	60.6	n/a	U
S09V000909	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S09V000909	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V000909	O	128-37-0	BHT	ug/kg	n/a	<236	<227	n/a	n/a	n/a	n/a	227	n/a	U
S09V000909	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<176	n/a	n/a	n/a	n/a	176	n/a	U
S09V000909	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW6
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000909		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<539	n/a	n/a	n/a	n/a	539	n/a	U
S09V000909		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<184	n/a	n/a	n/a	n/a	184	n/a	U
S09V000909		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<443	n/a	n/a	n/a	n/a	443	n/a	U
S09V000912		W	14762-75-5	Carbon-14	uCi/g	81.5	<4.96E-05	5.38E-05	n/a	n/a	n/a	n/a	4.98E-05	74.8	J
S09V000912		W	10028-17-8	Tritium	uCi/g	95.1	<2.65E-04	<3.06E-04	n/a	n/a	n/a	n/a	3.06E-04	n/a	U
S09V000918		S	14798-03-9	Ammonium	ug/g	93.2	<0.0120	1.26	n/a	n/a	n/a	n/a	0.477	n/a	J
S09V000921		A	14133-76-7	Technetium-99	ug/g	105	9.11E-06	1.47E-03	n/a	n/a	n/a	n/a	1.08E-03	n/a	BJ
S09V000921		A	SN-117	Tin-117	ug/g	98.1	<2.20E-04	<0.0395	n/a	n/a	n/a	n/a	0.0395	n/a	U
S09V000921		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.19E-04	n/a	n/a	n/a	n/a	7.19E-04	n/a	U
S09V000924		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.15E-07	<3.80E-07	n/a	n/a	n/a	n/a	3.80E-07	n/a	U
S09V000924		E	14596-10-2	Americium-241	uCi/g	107	<1.04E-06	<9.49E-07	n/a	n/a	n/a	n/a	9.49E-07	n/a	U
S09V000924		E	15510-73-3	Curium-242	uCi/g	n/a	<4.15E-07	<3.80E-07	n/a	n/a	n/a	n/a	3.80E-07	n/a	U
S09V000924		E	13981-37-8	Nickel-63	uCi/g	95.2	<5.84E-05	<7.06E-05	n/a	n/a	n/a	n/a	7.06E-05	n/a	U
S09V000924		E	PU-239/240	Plutonium-239/240	uCi/g	92.2	<1.20E-06	<6.02E-07	n/a	n/a	n/a	n/a	6.02E-07	n/a	U
S09V000924		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.20E-06	<6.02E-07	n/a	n/a	n/a	n/a	6.02E-07	n/a	U
S09V000924		E	15758-45-9	Selenium-79	uCi/g	n/a	<2.70E-06	<2.31E-06	n/a	n/a	n/a	n/a	2.31E-06	n/a	U
S09V000924		E	SR-89/90	Strontium-89/90	uCi/g	98.2	<2.60E-06	<2.97E-06	n/a	n/a	n/a	n/a	2.97E-06	n/a	U
S09V001322		A	7429-90-5	Aluminum	ug/g	83.9	<0.0300	7.11E+03	n/a	n/a	n/a	n/a	5.91	n/a	
S09V001322		A	7440-39-3	Barium	ug/g	84.2	<3.00E-03	106	n/a	n/a	n/a	n/a	0.591	n/a	c
S09V001322		A	7440-41-7	Beryllium	ug/g	86.1	<1.00E-03	<0.197	n/a	n/a	n/a	n/a	0.197	n/a	U
S09V001322		A	7440-70-2	Calcium	ug/g	81.3	<0.0500	9.56E+03	n/a	n/a	n/a	n/a	9.84	n/a	
S09V001322		A	7440-45-1	Cerium	ug/g	89.4	<0.0300	31.3	n/a	n/a	n/a	n/a	5.91	n/a	J
S09V001322		A	7440-48-4	Cobalt	ug/g	81.3	<0.0100	10.7	n/a	n/a	n/a	n/a	1.97	n/a	J
S09V001322		A	7440-47-3	Chromium	ug/g	83.4	<5.00E-03	11.1	n/a	n/a	n/a	n/a	0.984	n/a	c
S09V001322		A	7440-50-8	Copper	ug/g	82.9	<5.00E-03	15.1	n/a	n/a	n/a	n/a	0.984	n/a	
S09V001322		A	7440-53-1	Europium	ug/g	102	<5.00E-03	2.44	n/a	n/a	n/a	n/a	0.984	n/a	J
S09V001322		A	7439-89-6	Iron	ug/g	83.1	<5.00E-03	2.59E+04	n/a	n/a	n/a	n/a	0.984	n/a	
S09V001322		A	7440-09-7	Potassium	ug/g	86.9	<0.500	1.13E+03	n/a	n/a	n/a	n/a	98.4	n/a	b

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW6
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001322		A	7439-91-0	Lanthanum	ug/g	83.8	<3.00E-03	13.7	n/a	n/a	n/a	n/a	0.591	n/a	c
S09V001322		A	7439-93-2	Lithium	ug/g	98.9	<3.00E-03	7.44	n/a	n/a	n/a	n/a	0.591	n/a	
S09V001322		A	7439-95-4	Magnesium	ug/g	99.2	<0.0500	5.03E+03	n/a	n/a	n/a	n/a	9.84	n/a	c
S09V001322		A	7439-96-5	Manganese	ug/g	81.2	<3.00E-03	450	n/a	n/a	n/a	n/a	0.591	n/a	
S09V001322		A	7439-98-7	Molybdenum	ug/g	84.7	<0.0200	<3.94	n/a	n/a	n/a	n/a	3.94	n/a	U
S09V001322		A	7440-23-5	Sodium	ug/g	96.4	<0.100	381	n/a	n/a	n/a	n/a	19.7	n/a	b
S09V001322		A	7440-00-8	Neodymium	ug/g	91.6	<0.0100	31.4	n/a	n/a	n/a	n/a	1.97	n/a	c
S09V001322		A	7723-14-0	Phosphorus	ug/g	87.3	<0.0500	1.14E+03	n/a	n/a	n/a	n/a	9.84	n/a	
S09V001322		A	7704-34-9	Sulfur	ug/g	87.7	<0.100	101	n/a	n/a	n/a	n/a	19.7	n/a	J
S09V001322		A	7440-21-3	Silicon	ug/g	72.2	<0.0300	569	n/a	n/a	n/a	n/a	5.91	n/a	ab
S09V001322		A	7440-19-9	Samarium	ug/g	89.2	<0.0200	4.35	n/a	n/a	n/a	n/a	3.94	n/a	J
S09V001322		A	7440-24-6	Strontium	ug/g	84.8	<3.00E-03	32.7	n/a	n/a	n/a	n/a	0.591	n/a	
S09V001322		A	7440-32-6	Titanium	ug/g	85.5	<5.00E-03	2.14E+03	n/a	n/a	n/a	n/a	0.984	n/a	bc
S09V001322		A	7440-61-1	Uranium	ug/g	95.9	<0.100	<19.7	n/a	n/a	n/a	n/a	19.7	n/a	U
S09V001322		A	7440-65-5	Yttrium	ug/g	86.6	<2.00E-03	13.4	n/a	n/a	n/a	n/a	0.394	n/a	c
S09V001322		A	7440-66-6	Zinc	ug/g	81.8	<5.00E-03	43.4	n/a	n/a	n/a	n/a	0.984	n/a	
S09V001322		A	7440-67-7	Zirconium	ug/g	82.5	<5.00E-03	21.4	n/a	n/a	n/a	n/a	0.984	n/a	c
S09V001322		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	3.27E-05	n/a	n/a	n/a	n/a	2.76E-05	n/a	J
S09V001322		A	TH-232	Thorium-232	ug/g	98.8	5.67E-06	3.97	n/a	n/a	n/a	n/a	6.69E-04	n/a	c
S09V001322		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.26E-04	n/a	n/a	n/a	n/a	3.94E-05	n/a	J
S09V001322		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	2.32E-05	n/a	n/a	n/a	n/a	1.97E-05	n/a	J
S09V001322		A	15117-96-1	Uranium-235	ug/g	91.4	<2.20E-07	4.92E-03	n/a	n/a	n/a	n/a	4.33E-05	n/a	c
S09V001322		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.57E-05	n/a	n/a	n/a	n/a	1.57E-05	n/a	U
S09V001322		A	13994-20-2	Neptunium-237	ug/g	109	<1.06E-06	<2.09E-04	n/a	n/a	n/a	n/a	2.09E-04	n/a	U
S09V001322		A	U-238	Uranium-238	ug/g	100	<1.10E-05	0.755	n/a	n/a	n/a	n/a	2.17E-03	n/a	c
S09V001322		A	7440-22-4	Silver	ug/g	107	<1.60E-04	0.102	n/a	n/a	n/a	n/a	0.0315	n/a	J
S09V001322		A	7440-38-2	Arsenic	ug/g	107	<8.40E-04	4.07	n/a	n/a	n/a	n/a	0.165	n/a	
S09V001322		A	7440-43-9	Cadmium	ug/g	106	<6.00E-05	0.104	n/a	n/a	n/a	n/a	0.0118	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW6
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001322		A	7439-92-1	Lead	ug/g	110	<6.20E-04	4.96	n/a	n/a	n/a	n/a	0.122	n/a	c
S09V001322		A	7440-36-0	Antimony	ug/g	105	<8.80E-04	<0.173	n/a	n/a	n/a	n/a	0.173	n/a	U
S09V001322		A	7782-49-2	Selenium	ug/g	104	1.29E-03	<0.240	n/a	n/a	n/a	n/a	0.240	n/a	U
S09V001322		A	7440-28-0	Thallium	ug/g	115	1.13E-04	0.133	n/a	n/a	n/a	n/a	0.0118	n/a	B
S09V001322		A	7440-62-2	Vanadium	ug/g	105	<4.80E-04	66.7	n/a	n/a	n/a	n/a	0.945	n/a	
S09V001322		A	7440-02-0	Nickel	ug/g	109	<2.40E-04	13.1	n/a	n/a	n/a	n/a	0.472	n/a	
S09V001356		W	16984-48-8	Fluoride	ug/g	99.0	<0.0805	1.66	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001356		W	666-14-8	Glycolate	ug/g	101	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001356		W	71-50-1	Acetate	ug/g	105	<0.302	0.237	n/a	n/a	n/a	n/a	0.0754	n/a	J
S09V001356		W	12311-97-6	Formate	ug/g	103	<0.234	0.322	n/a	n/a	n/a	n/a	0.0583	n/a	J
S09V001356		W	16887-00-6	Chloride	ug/g	98.5	<0.499	1.92	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001356		W	14797-65-0	Nitrite	ug/g	103	<0.960	2.54	n/a	n/a	n/a	n/a	0.240	n/a	J
S09V001356		W	14808-79-8	Sulfate	ug/g	102	<0.935	9.62	n/a	n/a	n/a	n/a	0.233	n/a	
S09V001356		W	338-70-5	Oxalate	ug/g	100	<1.16	0.604	n/a	n/a	n/a	n/a	0.288	n/a	J
S09V001356		W	24959-67-9	Bromide	ug/g	97.3	<2.90	<0.724	n/a	n/a	n/a	n/a	0.724	n/a	U
S09V001356		W	14797-55-8	Nitrate	ug/g	99.4	<1.04	12.0	n/a	n/a	n/a	n/a	0.260	n/a	
S09V001356		W	14265-44-2	Phosphate	ug/g	100	<0.835	1.39	n/a	n/a	n/a	n/a	0.209	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW8
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000879			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.154	n/a	n/a	n/a	n/a	0.154	n/a	U
S09V000879			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.292	n/a	n/a	n/a	n/a	0.292	n/a	U
S09V000879			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.385	n/a	n/a	n/a	n/a	0.385	n/a	U
S09V000879			75-35-4	1,1-Dichloroethene	ug/kg	106	<0.340	<0.262	n/a	n/a	n/a	92.8	0.262	n/a	U
S09V000879			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.138	n/a	n/a	n/a	n/a	0.138	n/a	U
S09V000879			71-36-3	1-Butanol	ug/kg	92.1	<15.5	<12.0	n/a	n/a	n/a	101	12.0	n/a	U
S09V000879			108-10-1	Hexone	ug/kg	124	<1.76	<1.35	n/a	n/a	n/a	118	1.35	n/a	U
S09V000879			67-64-1	Acetone	ug/kg	111	<4.38	<3.37	n/a	n/a	n/a	113	3.37	n/a	U
S09V000879			71-43-2	Benzene	ug/kg	107	<0.320	<0.246	n/a	n/a	n/a	105	0.246	n/a	U
S09V000879			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.231	n/a	n/a	n/a	n/a	0.231	n/a	U
S09V000879			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.231	n/a	n/a	n/a	n/a	0.231	n/a	U
S09V000879			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.138	n/a	n/a	n/a	n/a	0.138	n/a	U
S09V000879			108-90-7	Chlorobenzene	ug/kg	109	<0.220	<0.169	n/a	n/a	n/a	102	0.169	n/a	U
S09V000879			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.185	n/a	n/a	n/a	n/a	0.185	n/a	U
S09V000879			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.477	n/a	n/a	n/a	n/a	0.477	n/a	U
S09V000879			78-93-3	2-Butanone	ug/kg	115	<2.66	<2.05	n/a	n/a	n/a	116	2.05	n/a	U
S09V000879			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.262	n/a	n/a	n/a	n/a	0.262	n/a	U
S09V000879			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.308	n/a	n/a	n/a	n/a	0.308	n/a	U
S09V000879			108-88-3	Toluene	ug/kg	113	<0.240	<0.185	n/a	n/a	n/a	104	0.185	n/a	U
S09V000879			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.108	n/a	n/a	n/a	n/a	0.108	n/a	U
S09V000879			79-01-6	Trichloroethene	ug/kg	106	<0.300	<0.231	n/a	n/a	n/a	103	0.231	n/a	U
S09V000879			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.492	n/a	n/a	n/a	n/a	0.492	n/a	U
S09V000879			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000879			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.277	n/a	n/a	n/a	n/a	0.277	n/a	U
S09V000879			110-54-3	Hexane	ug/kg	n/a	<0.440	32.6	n/a	n/a	n/a	n/a	0.338	n/a	
S09V000879			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.385	n/a	n/a	n/a	n/a	0.385	n/a	U
S09V000879			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.21	n/a	n/a	n/a	n/a	1.21	n/a	U
S09V000879			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.748	n/a	n/a	n/a	n/a	0.748	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW8
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000879			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.681	n/a	n/a	n/a	n/a	0.681	n/a	U
S09V000879			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.49	n/a	n/a	n/a	n/a	1.49	n/a	U
S09V000879			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.154	n/a	n/a	n/a	n/a	0.154	n/a	U
S09V000879			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.323	n/a	n/a	n/a	n/a	0.323	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW9
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000894			%WATERA	%WATER-APD	%	n/a	n/a	3.714	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V000894			57-12-5	Cyanide	ug/g	107	<0.0370	<4.75	n/a	n/a	n/a	n/a	4.75	n/a	U
S09V000894			7439-97-6	Mercury	ug/g	104	<1.00E-04	<0.0450	n/a	n/a	n/a	n/a	0.0450	n/a	U
S09V000894			PH	pH	unitless	n/a	n/a	9.31	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000894			18496-25-8	Sulfide	ug/g	93.6	<0.180	14.8	14.3	14.5	3.92	92.3	6.35	n/a	J
S09V000896			13966-00-2	Potassium-40	uCi/g	n/a	<4.45E-06	1.24E-05	n/a	n/a	n/a	n/a	4.80E-06	25.43	
S09V000896			10198-40-0	Cobalt-60	uCi/g	101	<1.71E-07	<2.10E-07	n/a	n/a	n/a	n/a	2.10E-07	n/a	U
S09V000896			14234-35-6	Antimony-125	uCi/g	n/a	<4.00E-07	<5.56E-07	n/a	n/a	n/a	n/a	5.56E-07	n/a	U
S09V000896			10045-97-3	Cesium-137	uCi/g	108	<1.92E-07	<2.49E-07	n/a	n/a	n/a	n/a	2.49E-07	n/a	U
S09V000896			14683-23-9	Europium-152	uCi/g	n/a	<8.14E-07	<1.08E-06	n/a	n/a	n/a	n/a	1.08E-06	n/a	U
S09V000896			15585-10-1	Europium-154	uCi/g	n/a	<5.13E-07	<6.79E-07	n/a	n/a	n/a	n/a	6.79E-07	n/a	U
S09V000896			14391-16-3	Europium-155	uCi/g	n/a	<3.07E-07	<4.18E-07	n/a	n/a	n/a	n/a	4.18E-07	n/a	U
S09V000896			15092-94-1	Lead-212	uCi/g	n/a	<2.32E-07	7.87E-07	n/a	n/a	n/a	n/a	3.79E-07	31.46	J
S09V000896			15067-28-4	Lead-214	uCi/g	n/a	<3.36E-07	6.18E-07	n/a	n/a	n/a	n/a	5.97E-07	49.05	J
S09V000896			14331-83-0	Actinium-228	uCi/g	n/a	<6.67E-07	8.26E-07	n/a	n/a	n/a	n/a	1.10E-06	43.24	J
S09V000896			14274-82-9	Thorium-228	uCi/g	n/a	<8.06E-06	<1.08E-05	n/a	n/a	n/a	n/a	1.08E-05	n/a	U
S09V000896			15065-10-8	Thorium-234	uCi/g	n/a	<6.34E-06	<9.34E-06	n/a	n/a	n/a	n/a	9.34E-06	n/a	U
S09V000896			15046-84-1	Iodine-129	uCi/g	95.2	<1.40E-07	<1.31E-07	n/a	n/a	n/a	n/a	1.31E-07	n/a	U
S09V000910		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	78.8	<77.4	<77.0	n/a	n/a	n/a	n/a	77.0	n/a	U
S09V000910		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S09V000910		O	106-46-7	1,4-Dichlorobenzene	ug/kg	78.3	<113	<113	n/a	n/a	n/a	n/a	113	n/a	U
S09V000910		O	121-14-2	2,4-Dinitrotoluene	ug/kg	83.8	<38.1	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S09V000910		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.7	n/a	n/a	n/a	n/a	43.7	n/a	U
S09V000910		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S09V000910		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S09V000910		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.4	n/a	n/a	n/a	n/a	53.4	n/a	U
S09V000910		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S09V000910		O	83-32-9	Acenaphthene	ug/kg	82.9	<17.6	<17.5	n/a	n/a	n/a	n/a	17.5	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW9
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000910		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S09V000910		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S09V000910		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S09V000910		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<587	n/a	n/a	n/a	n/a	587	n/a	U
S09V000910		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S09V000910		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S09V000910		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	76.6	<43.2	<42.9	n/a	n/a	n/a	n/a	42.9	n/a	U
S09V000910		O	95-57-8	2-Chlorophenol	ug/kg	78.6	<66.5	<66.1	n/a	n/a	n/a	n/a	66.1	n/a	U
S09V000910		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.9	n/a	n/a	n/a	n/a	80.9	n/a	U
S09V000910		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S09V000910		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<559	n/a	n/a	n/a	n/a	559	n/a	U
S09V000910		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U
S09V000910		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	72.7	<58.1	<57.8	n/a	n/a	n/a	n/a	57.8	n/a	U
S09V000910		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.2	n/a	n/a	n/a	n/a	35.2	n/a	U
S09V000910		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.3	n/a	n/a	n/a	n/a	69.3	n/a	U
S09V000910		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V000910		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U
S09V000910		O	108-95-2	Phenol	ug/kg	80.0	<59.4	<59.1	n/a	n/a	n/a	n/a	59.1	n/a	U
S09V000910		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S09V000910		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.2	n/a	n/a	n/a	n/a	64.2	n/a	U
S09V000910		O	100-02-7	4-Nitrophenol	ug/kg	86.1	<52.6	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S09V000910		O	87-86-5	Pentachlorophenol	ug/kg	87.4	<37.5	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S09V000910		O	129-00-0	Pyrene	ug/kg	89.3	<62.9	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S09V000910		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.6	n/a	n/a	n/a	n/a	64.6	n/a	U
S09V000910		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000910		O	128-37-0	BHT	ug/kg	n/a	<236	<234	n/a	n/a	n/a	n/a	234	n/a	U
S09V000910		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<181	n/a	n/a	n/a	n/a	181	n/a	U
S09V000910		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW9
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000910		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<556	n/a	n/a	n/a	n/a	556	n/a	U
S09V000910		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S09V000910		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<458	n/a	n/a	n/a	n/a	458	n/a	U
S09V000913		W	14762-75-5	Carbon-14	uCi/g	81.5	<4.96E-05	<4.38E-05	n/a	n/a	n/a	n/a	4.38E-05	n/a	U
S09V000913		W	10028-17-8	Tritium	uCi/g	95.1	<2.65E-04	<2.68E-04	n/a	n/a	n/a	n/a	2.68E-04	n/a	U
S09V000919		S	14798-03-9	Ammonium	ug/g	93.2	<0.0120	<0.479	n/a	n/a	n/a	n/a	0.479	n/a	U
S09V000922		A	14133-76-7	Technetium-99	ug/g	105	9.11E-06	1.27E-03	n/a	n/a	n/a	n/a	1.05E-03	n/a	BJ
S09V000922		A	SN-117	Tin-117	ug/g	98.1	<2.20E-04	<0.0385	n/a	n/a	n/a	n/a	0.0385	n/a	U
S09V000922		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.00E-04	n/a	n/a	n/a	n/a	7.00E-04	n/a	U
S09V000925		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.15E-07	<4.10E-07	n/a	n/a	n/a	n/a	4.10E-07	n/a	U
S09V000925		E	14596-10-2	Americium-241	uCi/g	107	<1.04E-06	<1.03E-06	n/a	n/a	n/a	n/a	1.03E-06	n/a	U
S09V000925		E	15510-73-3	Curium-242	uCi/g	n/a	<4.15E-07	<4.10E-07	n/a	n/a	n/a	n/a	4.10E-07	n/a	U
S09V000925		E	13981-37-8	Nickel-63	uCi/g	95.2	<5.84E-05	<5.17E-05	n/a	n/a	n/a	n/a	5.17E-05	n/a	U
S09V000925		E	PU-239/240	Plutonium-239/240	uCi/g	92.2	<1.20E-06	<6.11E-07	n/a	n/a	n/a	n/a	6.11E-07	n/a	U
S09V000925		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.20E-06	<6.11E-07	n/a	n/a	n/a	n/a	6.11E-07	n/a	U
S09V000925		E	15758-45-9	Selenium-79	uCi/g	n/a	<2.70E-06	1.60E-06	n/a	n/a	n/a	n/a	1.31E-06	386.52	J
S09V000925		E	SR-89/90	Strontium-89/90	uCi/g	98.2	<2.60E-06	<1.78E-06	n/a	n/a	n/a	n/a	1.78E-06	n/a	U
S09V001323		A	7429-90-5	Aluminum	ug/g	83.9	<0.0300	5.41E+03	n/a	n/a	n/a	n/a	5.93	n/a	
S09V001323		A	7440-39-3	Barium	ug/g	84.2	<3.00E-03	46.6	n/a	n/a	n/a	n/a	0.593	n/a	c
S09V001323		A	7440-41-7	Beryllium	ug/g	86.1	<1.00E-03	<0.198	n/a	n/a	n/a	n/a	0.198	n/a	U
S09V001323		A	7440-70-2	Calcium	ug/g	81.3	<0.0500	4.07E+03	n/a	n/a	n/a	n/a	9.88	n/a	
S09V001323		A	7440-45-1	Cerium	ug/g	89.4	<0.0300	12.9	n/a	n/a	n/a	n/a	5.93	n/a	J
S09V001323		A	7440-48-4	Cobalt	ug/g	81.3	<0.0100	4.34	n/a	n/a	n/a	n/a	1.98	n/a	J
S09V001323		A	7440-47-3	Chromium	ug/g	83.4	<5.00E-03	7.54	n/a	n/a	n/a	n/a	0.988	n/a	c
S09V001323		A	7440-50-8	Copper	ug/g	82.9	<5.00E-03	8.02	n/a	n/a	n/a	n/a	0.988	n/a	J
S09V001323		A	7440-53-1	Europium	ug/g	102	<5.00E-03	1.59	n/a	n/a	n/a	n/a	0.988	n/a	J
S09V001323		A	7439-89-6	Iron	ug/g	83.1	<5.00E-03	1.26E+04	n/a	n/a	n/a	n/a	0.988	n/a	
S09V001323		A	7440-09-7	Potassium	ug/g	86.9	<0.500	813	n/a	n/a	n/a	n/a	98.8	n/a	Jb

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW9
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001323		A	7439-91-0	Lanthanum	ug/g	83.8	<3.00E-03	5.20	n/a	n/a	n/a	n/a	0.593	n/a	Jc
S09V001323		A	7439-93-2	Lithium	ug/g	98.9	<3.00E-03	6.82	n/a	n/a	n/a	n/a	0.593	n/a	
S09V001323		A	7439-95-4	Magnesium	ug/g	99.2	<0.0500	3.25E+03	n/a	n/a	n/a	n/a	9.88	n/a	c
S09V001323		A	7439-96-5	Manganese	ug/g	81.2	<3.00E-03	169	n/a	n/a	n/a	n/a	0.593	n/a	
S09V001323		A	7439-98-7	Molybdenum	ug/g	84.7	<0.0200	<3.95	n/a	n/a	n/a	n/a	3.95	n/a	U
S09V001323		A	7440-23-5	Sodium	ug/g	96.4	<0.100	276	n/a	n/a	n/a	n/a	19.8	n/a	b
S09V001323		A	7440-00-8	Neodymium	ug/g	91.6	<0.0100	14.3	n/a	n/a	n/a	n/a	1.98	n/a	Jc
S09V001323		A	7723-14-0	Phosphorus	ug/g	87.3	<0.0500	522	n/a	n/a	n/a	n/a	9.88	n/a	
S09V001323		A	7704-34-9	Sulfur	ug/g	87.7	<0.100	50.8	n/a	n/a	n/a	n/a	19.8	n/a	J
S09V001323		A	7440-21-3	Silicon	ug/g	72.2	<0.0300	557	n/a	n/a	n/a	n/a	5.93	n/a	ab
S09V001323		A	7440-24-6	Strontium	ug/g	84.8	<3.00E-03	26.3	n/a	n/a	n/a	n/a	0.593	n/a	
S09V001323		A	7440-32-6	Titanium	ug/g	85.5	<5.00E-03	963	n/a	n/a	n/a	n/a	0.988	n/a	bc
S09V001323		A	7440-61-1	Uranium	ug/g	95.9	<0.100	<19.8	n/a	n/a	n/a	n/a	19.8	n/a	U
S09V001323		A	7440-65-5	Yttrium	ug/g	86.6	<2.00E-03	5.23	n/a	n/a	n/a	n/a	0.395	n/a	c
S09V001323		A	7440-66-6	Zinc	ug/g	81.8	<5.00E-03	24.2	n/a	n/a	n/a	n/a	0.988	n/a	
S09V001323		A	7440-67-7	Zirconium	ug/g	82.5	<5.00E-03	9.36	n/a	n/a	n/a	n/a	0.988	n/a	Jc
S09V001323		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.77E-05	n/a	n/a	n/a	n/a	2.77E-05	n/a	U
S09V001323		A	TH-232	Thorium-232	ug/g	98.8	5.67E-06	1.62	n/a	n/a	n/a	n/a	6.72E-04	n/a	c
S09V001323		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	4.60E-05	n/a	n/a	n/a	n/a	3.95E-05	n/a	J
S09V001323		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.98E-05	n/a	n/a	n/a	n/a	1.98E-05	n/a	U
S09V001323		A	15117-96-1	Uranium-235	ug/g	91.4	<2.20E-07	2.15E-03	n/a	n/a	n/a	n/a	4.35E-05	n/a	c
S09V001323		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.58E-05	n/a	n/a	n/a	n/a	1.58E-05	n/a	U
S09V001323		A	13994-20-2	Neptunium-237	ug/g	109	<1.06E-06	<2.09E-04	n/a	n/a	n/a	n/a	2.09E-04	n/a	U
S09V001323		A	U-238	Uranium-238	ug/g	100	<1.10E-05	0.314	n/a	n/a	n/a	n/a	2.17E-03	n/a	c
S09V001323		A	7440-22-4	Silver	ug/g	107	<1.60E-04	0.0520	n/a	n/a	n/a	n/a	0.0316	n/a	J
S09V001323		A	7440-38-2	Arsenic	ug/g	107	<8.40E-04	1.80	n/a	n/a	n/a	n/a	0.166	n/a	
S09V001323		A	7440-43-9	Cadmium	ug/g	106	<6.00E-05	0.0323	n/a	n/a	n/a	n/a	0.0119	n/a	J
S09V001323		A	7439-92-1	Lead	ug/g	110	<6.20E-04	3.04	n/a	n/a	n/a	n/a	0.123	n/a	c

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW9
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001323		A	7440-36-0	Antimony	ug/g	105	<8.80E-04	<0.174	n/a	n/a	n/a	n/a	0.174	n/a	U
S09V001323		A	7782-49-2	Selenium	ug/g	104	1.29E-03	<0.241	n/a	n/a	n/a	n/a	0.241	n/a	U
S09V001323		A	7440-28-0	Thallium	ug/g	115	1.13E-04	0.0615	n/a	n/a	n/a	n/a	0.0119	n/a	BJ
S09V001323		A	7440-62-2	Vanadium	ug/g	105	<4.80E-04	35.5	n/a	n/a	n/a	n/a	0.949	n/a	
S09V001323		A	7440-02-0	Nickel	ug/g	109	<2.40E-04	7.33	n/a	n/a	n/a	n/a	0.474	n/a	
S09V001357		W	16984-48-8	Fluoride	ug/g	99.0	<0.0805	0.688	n/a	n/a	n/a	n/a	0.0199	n/a	
S09V001357		W	666-14-8	Glycolate	ug/g	101	<0.468	<0.116	n/a	n/a	n/a	n/a	0.116	n/a	U
S09V001357		W	71-50-1	Acetate	ug/g	105	<0.302	0.148	n/a	n/a	n/a	n/a	0.0747	n/a	J
S09V001357		W	12311-97-6	Formate	ug/g	103	<0.234	0.274	n/a	n/a	n/a	n/a	0.0578	n/a	J
S09V001357		W	16887-00-6	Chloride	ug/g	98.5	<0.499	0.315	n/a	n/a	n/a	n/a	0.123	n/a	J
S09V001357		W	14797-65-0	Nitrite	ug/g	103	<0.960	5.18	n/a	n/a	n/a	n/a	0.238	n/a	
S09V001357		W	14808-79-8	Sulfate	ug/g	102	<0.935	2.01	n/a	n/a	n/a	n/a	0.231	n/a	J
S09V001357		W	338-70-5	Oxalate	ug/g	100	<1.16	<0.286	n/a	n/a	n/a	n/a	0.286	n/a	U
S09V001357		W	24959-67-9	Bromide	ug/g	97.3	<2.90	<0.718	n/a	n/a	n/a	n/a	0.718	n/a	U
S09V001357		W	14797-55-8	Nitrate	ug/g	99.4	<1.04	3.64	n/a	n/a	n/a	n/a	0.257	n/a	
S09V001357		W	14265-44-2	Phosphate	ug/g	100	<0.835	0.879	n/a	n/a	n/a	n/a	0.207	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX1
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000888			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.182	n/a	n/a	n/a	n/a	0.182	n/a	U
S09V000888			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.345	n/a	n/a	n/a	n/a	0.345	n/a	U
S09V000888			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.455	n/a	n/a	n/a	n/a	0.455	n/a	U
S09V000888			75-35-4	1,1-Dichloroethene	ug/kg	94.4	<0.340	<0.309	n/a	n/a	n/a	n/a	0.309	n/a	U
S09V000888			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V000888			71-36-3	1-Butanol	ug/kg	95.0	<15.5	<14.1	n/a	n/a	n/a	n/a	14.1	n/a	U
S09V000888			108-10-1	Hexone	ug/kg	112	<1.76	<1.60	n/a	n/a	n/a	n/a	1.60	n/a	U
S09V000888			67-64-1	Acetone	ug/kg	103	<4.38	<3.98	n/a	n/a	n/a	n/a	3.98	n/a	U
S09V000888			71-43-2	Benzene	ug/kg	101	<0.320	<0.291	n/a	n/a	n/a	n/a	0.291	n/a	U
S09V000888			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000888			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000888			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V000888			108-90-7	Chlorobenzene	ug/kg	97.2	<0.220	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000888			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.218	n/a	n/a	n/a	n/a	0.218	n/a	U
S09V000888			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.564	n/a	n/a	n/a	n/a	0.564	n/a	U
S09V000888			78-93-3	2-Butanone	ug/kg	107	<2.66	<2.42	n/a	n/a	n/a	n/a	2.42	n/a	U
S09V000888			75-09-2	Methylenechloride	ug/kg	n/a	0.388	<0.309	n/a	n/a	n/a	n/a	0.309	n/a	U
S09V000888			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.364	n/a	n/a	n/a	n/a	0.364	n/a	U
S09V000888			108-88-3	Toluene	ug/kg	102	<0.240	<0.218	n/a	n/a	n/a	n/a	0.218	n/a	U
S09V000888			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.127	n/a	n/a	n/a	n/a	0.127	n/a	U
S09V000888			79-01-6	Trichloroethene	ug/kg	99.9	<0.300	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000888			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.582	n/a	n/a	n/a	n/a	0.582	n/a	U
S09V000888			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.236	n/a	n/a	n/a	n/a	0.236	n/a	U
S09V000888			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.327	n/a	n/a	n/a	n/a	0.327	n/a	U
S09V000888			110-54-3	Hexane	ug/kg	n/a	<0.440	45.2	n/a	n/a	n/a	n/a	0.400	n/a	
S09V000888			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.455	n/a	n/a	n/a	n/a	0.455	n/a	U
S09V000888			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.43	n/a	n/a	n/a	n/a	1.43	n/a	U
S09V000888			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.884	n/a	n/a	n/a	n/a	0.884	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX1
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000888			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.805	n/a	n/a	n/a	n/a	0.805	n/a	U
S09V000888			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.76	n/a	n/a	n/a	n/a	1.76	n/a	U
S09V000888			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.182	n/a	n/a	n/a	n/a	0.182	n/a	U
S09V000888			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.382	n/a	n/a	n/a	n/a	0.382	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX2
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000903			%WATERA	%WATER-APD	%	n/a	n/a	3.585	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V000903			57-12-5	Cyanide	ug/g	107	<0.0370	<4.62	n/a	n/a	n/a	n/a	4.62	n/a	U
S09V000903			7439-97-6	Mercury	ug/g	103	<1.00E-04	<0.0407	n/a	n/a	n/a	n/a	0.0407	n/a	U
S09V000903			PH	pH	unitless	n/a	n/a	9.09	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000903			18496-25-8	Sulfide	ug/g	93.6	<0.180	12.4	n/a	n/a	n/a	n/a	6.44	n/a	J
S09V000905			13966-00-2	Potassium-40	uCi/g	n/a	<4.45E-06	1.33E-05	n/a	n/a	n/a	n/a	4.41E-06	22.04	
S09V000905			10198-40-0	Cobalt-60	uCi/g	101	<1.71E-07	<1.91E-07	n/a	n/a	n/a	n/a	1.91E-07	n/a	U
S09V000905			14234-35-6	Antimony-125	uCi/g	n/a	<4.00E-07	<4.92E-07	n/a	n/a	n/a	n/a	4.92E-07	n/a	U
S09V000905			10045-97-3	Cesium-137	uCi/g	108	<1.92E-07	<2.28E-07	n/a	n/a	n/a	n/a	2.28E-07	n/a	U
S09V000905			14683-23-9	Europium-152	uCi/g	n/a	<8.14E-07	<9.59E-07	n/a	n/a	n/a	n/a	9.59E-07	n/a	U
S09V000905			15585-10-1	Europium-154	uCi/g	n/a	<5.13E-07	<6.07E-07	n/a	n/a	n/a	n/a	6.07E-07	n/a	U
S09V000905			14391-16-3	Europium-155	uCi/g	n/a	<3.07E-07	<3.79E-07	n/a	n/a	n/a	n/a	3.79E-07	n/a	U
S09V000905			14733-03-0	Bismuth-214	uCi/g	n/a	<3.67E-07	7.76E-07	n/a	n/a	n/a	n/a	4.16E-07	32.26	J
S09V000905			14274-82-9	Thorium-228	uCi/g	n/a	<8.06E-06	<9.81E-06	n/a	n/a	n/a	n/a	9.81E-06	n/a	U
S09V000905			15065-10-8	Thorium-234	uCi/g	n/a	<6.34E-06	<8.62E-06	n/a	n/a	n/a	n/a	8.62E-06	n/a	U
S09V000905			15046-84-1	Iodine-129	uCi/g	95.2	<1.40E-07	<1.22E-07	n/a	n/a	n/a	n/a	1.22E-07	n/a	U
S09V000911		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	78.8	<77.4	<76.3	n/a	n/a	n/a	n/a	76.3	n/a	U
S09V000911		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.3	n/a	n/a	n/a	n/a	99.3	n/a	U
S09V000911		O	106-46-7	1,4-Dichlorobenzene	ug/kg	78.3	<113	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V000911		O	121-14-2	2,4-Dinitrotoluene	ug/kg	83.8	<38.1	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S09V000911		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.4	n/a	n/a	n/a	n/a	43.4	n/a	U
S09V000911		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U
S09V000911		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.7	n/a	n/a	n/a	n/a	56.7	n/a	U
S09V000911		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.0	n/a	n/a	n/a	n/a	53.0	n/a	U
S09V000911		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U
S09V000911		O	83-32-9	Acenaphthene	ug/kg	82.9	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S09V000911		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S09V000911		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.2	n/a	n/a	n/a	n/a	48.2	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX2
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000911		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.6	n/a	n/a	n/a	n/a	40.6	n/a	U
S09V000911		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<582	n/a	n/a	n/a	n/a	582	n/a	U
S09V000911		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.6	n/a	n/a	n/a	n/a	38.6	n/a	U
S09V000911		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	53.6	n/a	n/a	n/a	n/a	49.3	n/a	J
S09V000911		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	76.6	<43.2	<42.6	n/a	n/a	n/a	n/a	42.6	n/a	U
S09V000911		O	95-57-8	2-Chlorophenol	ug/kg	78.6	<66.5	<65.6	n/a	n/a	n/a	n/a	65.6	n/a	U
S09V000911		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.3	n/a	n/a	n/a	n/a	80.3	n/a	U
S09V000911		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S09V000911		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<555	n/a	n/a	n/a	n/a	555	n/a	U
S09V000911		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.0	n/a	n/a	n/a	n/a	47.0	n/a	U
S09V000911		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	72.7	<58.1	<57.3	n/a	n/a	n/a	n/a	57.3	n/a	U
S09V000911		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.9	n/a	n/a	n/a	n/a	34.9	n/a	U
S09V000911		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.7	n/a	n/a	n/a	n/a	68.7	n/a	U
S09V000911		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V000911		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.3	n/a	n/a	n/a	n/a	50.3	n/a	U
S09V000911		O	108-95-2	Phenol	ug/kg	80.0	<59.4	<58.6	n/a	n/a	n/a	n/a	58.6	n/a	U
S09V000911		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.7	n/a	n/a	n/a	n/a	61.7	n/a	U
S09V000911		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.7	n/a	n/a	n/a	n/a	63.7	n/a	U
S09V000911		O	100-02-7	4-Nitrophenol	ug/kg	86.1	<52.6	<51.9	n/a	n/a	n/a	n/a	51.9	n/a	U
S09V000911		O	87-86-5	Pentachlorophenol	ug/kg	87.4	<37.5	<37.0	n/a	n/a	n/a	n/a	37.0	n/a	U
S09V000911		O	129-00-0	Pyrene	ug/kg	89.3	<62.9	<62.0	n/a	n/a	n/a	n/a	62.0	n/a	U
S09V000911		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.1	n/a	n/a	n/a	n/a	64.1	n/a	U
S09V000911		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V000911		O	128-37-0	BHT	ug/kg	n/a	<236	<232	n/a	n/a	n/a	n/a	232	n/a	U
S09V000911		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S09V000911		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V000911		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<551	n/a	n/a	n/a	n/a	551	n/a	U
S09V000911		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX2
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000911		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<454	n/a	n/a	n/a	n/a	454	n/a	U
S09V000914		W	14762-75-5	Carbon-14	uCi/g	81.5	<4.96E-05	<6.04E-05	n/a	n/a	n/a	n/a	6.04E-05	n/a	U
S09V000914		W	10028-17-8	Tritium	uCi/g	95.1	<2.65E-04	<2.91E-04	n/a	n/a	n/a	n/a	2.91E-04	n/a	U
S09V000920		S	14798-03-9	Ammonium	ug/g	93.2	<0.0120	0.913	n/a	n/a	n/a	n/a	0.477	n/a	J
S09V000923		A	14133-76-7	Technetium-99	ug/g	105	9.11E-06	1.45E-03	n/a	n/a	n/a	n/a	1.09E-03	n/a	BJ
S09V000923		A	SN-117	Tin-117	ug/g	98.1	<2.20E-04	<0.0399	n/a	n/a	n/a	n/a	0.0399	n/a	U
S09V000923		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.25E-04	n/a	n/a	n/a	n/a	7.25E-04	n/a	U
S09V000926		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.15E-07	<4.61E-07	n/a	n/a	n/a	n/a	4.61E-07	n/a	U
S09V000926		E	14596-10-2	Americium-241	uCi/g	107	<1.04E-06	<1.15E-06	n/a	n/a	n/a	n/a	1.15E-06	n/a	U
S09V000926		E	15510-73-3	Curium-242	uCi/g	n/a	<4.15E-07	<4.61E-07	n/a	n/a	n/a	n/a	4.61E-07	n/a	U
S09V000926		E	13981-37-8	Nickel-63	uCi/g	95.2	<5.84E-05	<5.22E-05	n/a	n/a	n/a	n/a	5.22E-05	n/a	U
S09V000926		E	PU-239/240	Plutonium-239/240	uCi/g	92.2	<1.20E-06	<6.73E-07	n/a	n/a	n/a	n/a	6.73E-07	n/a	U
S09V000926		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.20E-06	<6.73E-07	n/a	n/a	n/a	n/a	6.73E-07	n/a	U
S09V000926		E	15758-45-9	Selenium-79	uCi/g	n/a	<2.70E-06	<2.68E-06	n/a	n/a	n/a	n/a	2.68E-06	n/a	U
S09V000926		E	SR-89/90	Strontium-89/90	uCi/g	98.2	<2.60E-06	<1.82E-06	n/a	n/a	n/a	n/a	1.82E-06	n/a	U
S09V001324		A	7429-90-5	Aluminum	ug/g	83.9	<0.0300	5.11E+03	n/a	n/a	n/a	n/a	5.32	n/a	
S09V001324		A	7440-39-3	Barium	ug/g	84.2	<3.00E-03	53.4	n/a	n/a	n/a	n/a	0.532	n/a	c
S09V001324		A	7440-41-7	Beryllium	ug/g	86.1	<1.00E-03	<0.177	n/a	n/a	n/a	n/a	0.177	n/a	U
S09V001324		A	7440-70-2	Calcium	ug/g	81.3	<0.0500	6.27E+03	n/a	n/a	n/a	n/a	8.86	n/a	
S09V001324		A	7440-45-1	Cerium	ug/g	89.4	<0.0300	15.8	n/a	n/a	n/a	n/a	5.32	n/a	J
S09V001324		A	7440-48-4	Cobalt	ug/g	81.3	<0.0100	5.64	n/a	n/a	n/a	n/a	1.77	n/a	J
S09V001324		A	7440-47-3	Chromium	ug/g	83.4	<5.00E-03	8.50	n/a	n/a	n/a	n/a	0.886	n/a	c
S09V001324		A	7440-50-8	Copper	ug/g	82.9	<5.00E-03	9.65	n/a	n/a	n/a	n/a	0.886	n/a	
S09V001324		A	7440-53-1	Europium	ug/g	102	<5.00E-03	1.34	n/a	n/a	n/a	n/a	0.886	n/a	J
S09V001324		A	7439-89-6	Iron	ug/g	83.1	<5.00E-03	1.68E+04	n/a	n/a	n/a	n/a	0.886	n/a	
S09V001324		A	7440-09-7	Potassium	ug/g	86.9	<0.500	670	n/a	n/a	n/a	n/a	88.6	n/a	Jb
S09V001324		A	7439-91-0	Lanthanum	ug/g	83.8	<3.00E-03	7.99	n/a	n/a	n/a	n/a	0.532	n/a	c
S09V001324		A	7439-93-2	Lithium	ug/g	98.9	<3.00E-03	5.55	n/a	n/a	n/a	n/a	0.532	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX2
Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001324	A	7439-95-4	Magnesium	ug/g	99.2	<0.0500	3.80E+03	n/a	n/a	n/a	n/a	8.86	n/a	c
S09V001324	A	7439-96-5	Manganese	ug/g	81.2	<3.00E-03	243	n/a	n/a	n/a	n/a	0.532	n/a	
S09V001324	A	7439-98-7	Molybdenum	ug/g	84.7	<0.0200	<3.54	n/a	n/a	n/a	n/a	3.54	n/a	U
S09V001324	A	7440-23-5	Sodium	ug/g	96.4	<0.100	167	n/a	n/a	n/a	n/a	17.7	n/a	Jb
S09V001324	A	7440-00-8	Neodymium	ug/g	91.6	<0.0100	19.6	n/a	n/a	n/a	n/a	1.77	n/a	c
S09V001324	A	7723-14-0	Phosphorus	ug/g	87.3	<0.0500	640	n/a	n/a	n/a	n/a	8.86	n/a	
S09V001324	A	7704-34-9	Sulfur	ug/g	87.7	<0.100	46.5	n/a	n/a	n/a	n/a	17.7	n/a	J
S09V001324	A	7440-21-3	Silicon	ug/g	72.2	<0.0300	415	n/a	n/a	n/a	n/a	5.32	n/a	ab
S09V001324	A	7440-19-9	Samarium	ug/g	89.2	<0.0200	3.55	n/a	n/a	n/a	n/a	3.54	n/a	J
S09V001324	A	7440-24-6	Strontium	ug/g	84.8	<3.00E-03	19.0	n/a	n/a	n/a	n/a	0.532	n/a	
S09V001324	A	7440-32-6	Titanium	ug/g	85.5	<5.00E-03	1.66E+03	n/a	n/a	n/a	n/a	0.886	n/a	bc
S09V001324	A	7440-61-1	Uranium	ug/g	95.9	<0.100	<17.7	n/a	n/a	n/a	n/a	17.7	n/a	U
S09V001324	A	7440-65-5	Yttrium	ug/g	86.6	<2.00E-03	7.10	n/a	n/a	n/a	n/a	0.354	n/a	c
S09V001324	A	7440-66-6	Zinc	ug/g	81.8	<5.00E-03	29.1	n/a	n/a	n/a	n/a	0.886	n/a	
S09V001324	A	7440-67-7	Zirconium	ug/g	82.5	<5.00E-03	13.9	n/a	n/a	n/a	n/a	0.886	n/a	c
S09V001324	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.48E-05	n/a	n/a	n/a	n/a	2.48E-05	n/a	U
S09V001324	A	TH-232	Thorium-232	ug/g	98.8	5.67E-06	2.50	n/a	n/a	n/a	n/a	6.02E-04	n/a	c
S09V001324	A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	5.92E-05	n/a	n/a	n/a	n/a	3.54E-05	n/a	J
S09V001324	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	3.83E-05	n/a	n/a	n/a	n/a	1.77E-05	n/a	J
S09V001324	A	15117-96-1	Uranium-235	ug/g	91.4	<2.20E-07	2.73E-03	n/a	n/a	n/a	n/a	3.90E-05	n/a	c
S09V001324	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.42E-05	n/a	n/a	n/a	n/a	1.42E-05	n/a	U
S09V001324	A	13994-20-2	Neptunium-237	ug/g	109	<1.06E-06	<1.88E-04	n/a	n/a	n/a	n/a	1.88E-04	n/a	U
S09V001324	A	U-238	Uranium-238	ug/g	100	<1.10E-05	0.417	n/a	n/a	n/a	n/a	1.95E-03	n/a	c
S09V001324	A	7440-22-4	Silver	ug/g	107	<1.60E-04	0.0659	n/a	n/a	n/a	n/a	0.0283	n/a	J
S09V001324	A	7440-38-2	Arsenic	ug/g	107	<8.40E-04	2.03	n/a	n/a	n/a	n/a	0.149	n/a	
S09V001324	A	7440-43-9	Cadmium	ug/g	106	<6.00E-05	0.0603	n/a	n/a	n/a	n/a	0.0106	n/a	J
S09V001324	A	7439-92-1	Lead	ug/g	110	<6.20E-04	3.63	n/a	n/a	n/a	n/a	0.110	n/a	c
S09V001324	A	7440-36-0	Antimony	ug/g	105	<8.80E-04	<0.156	n/a	n/a	n/a	n/a	0.156	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX2
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001324		A	7782-49-2	Selenium	ug/g	104	1.29E-03	<0.216	n/a	n/a	n/a	n/a	0.216	n/a	U
S09V001324		A	7440-28-0	Thallium	ug/g	115	1.13E-04	0.0624	n/a	n/a	n/a	n/a	0.0106	n/a	BJ
S09V001324		A	7440-62-2	Vanadium	ug/g	105	<4.80E-04	52.2	n/a	n/a	n/a	n/a	0.850	n/a	
S09V001324		A	7440-02-0	Nickel	ug/g	109	<2.40E-04	8.06	n/a	n/a	n/a	n/a	0.425	n/a	
S09V001358		W	16984-48-8	Fluoride	ug/g	99.0	<0.0805	0.379	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001358		W	666-14-8	Glycolate	ug/g	101	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001358		W	71-50-1	Acetate	ug/g	105	<0.302	0.105	n/a	n/a	n/a	n/a	0.0755	n/a	J
S09V001358		W	12311-97-6	Formate	ug/g	103	<0.234	0.193	n/a	n/a	n/a	n/a	0.0584	n/a	J
S09V001358		W	16887-00-6	Chloride	ug/g	98.5	<0.499	0.419	n/a	n/a	n/a	n/a	0.125	n/a	J
S09V001358		W	14797-65-0	Nitrite	ug/g	103	<0.960	<0.240	n/a	n/a	n/a	n/a	0.240	n/a	U
S09V001358		W	14808-79-8	Sulfate	ug/g	102	<0.935	1.85	n/a	n/a	n/a	n/a	0.234	n/a	J
S09V001358		W	338-70-5	Oxalate	ug/g	100	<1.16	<0.289	n/a	n/a	n/a	n/a	0.289	n/a	U
S09V001358		W	24959-67-9	Bromide	ug/g	97.3	<2.90	<0.725	n/a	n/a	n/a	n/a	0.725	n/a	U
S09V001358		W	14797-55-8	Nitrate	ug/g	99.4	<1.04	1.92	n/a	n/a	n/a	n/a	0.260	n/a	J
S09V001358		W	14265-44-2	Phosphate	ug/g	100	<0.835	0.393	n/a	n/a	n/a	n/a	0.209	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX4
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000897			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.169	n/a	n/a	n/a	n/a	0.169	n/a	U
S09V000897			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V000897			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.424	n/a	n/a	n/a	n/a	0.424	n/a	U
S09V000897			75-35-4	1,1-Dichloroethene	ug/kg	94.4	<0.340	<0.288	n/a	n/a	n/a	n/a	0.288	n/a	U
S09V000897			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S09V000897			71-36-3	1-Butanol	ug/kg	95.0	<15.5	<13.2	n/a	n/a	n/a	n/a	13.2	n/a	U
S09V000897			108-10-1	Hexone	ug/kg	112	<1.76	<1.49	n/a	n/a	n/a	n/a	1.49	n/a	U
S09V000897			67-64-1	Acetone	ug/kg	103	<4.38	<3.71	n/a	n/a	n/a	n/a	3.71	n/a	U
S09V000897			71-43-2	Benzene	ug/kg	101	<0.320	<0.271	n/a	n/a	n/a	n/a	0.271	n/a	U
S09V000897			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000897			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000897			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S09V000897			108-90-7	Chlorobenzene	ug/kg	97.2	<0.220	<0.186	n/a	n/a	n/a	n/a	0.186	n/a	U
S09V000897			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.203	n/a	n/a	n/a	n/a	0.203	n/a	U
S09V000897			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.525	n/a	n/a	n/a	n/a	0.525	n/a	U
S09V000897			78-93-3	2-Butanone	ug/kg	107	<2.66	<2.25	n/a	n/a	n/a	n/a	2.25	n/a	U
S09V000897			75-09-2	Methylenechloride	ug/kg	n/a	0.388	<0.288	n/a	n/a	n/a	n/a	0.288	n/a	U
S09V000897			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.339	n/a	n/a	n/a	n/a	0.339	n/a	U
S09V000897			108-88-3	Toluene	ug/kg	102	<0.240	<0.203	n/a	n/a	n/a	n/a	0.203	n/a	U
S09V000897			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U
S09V000897			79-01-6	Trichloroethene	ug/kg	99.9	<0.300	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000897			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.542	n/a	n/a	n/a	n/a	0.542	n/a	U
S09V000897			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.220	n/a	n/a	n/a	n/a	0.220	n/a	U
S09V000897			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.305	n/a	n/a	n/a	n/a	0.305	n/a	U
S09V000897			110-54-3	Hexane	ug/kg	n/a	<0.440	60.5	n/a	n/a	n/a	n/a	0.373	n/a	
S09V000897			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.424	n/a	n/a	n/a	n/a	0.424	n/a	U
S09V000897			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.34	n/a	n/a	n/a	n/a	1.34	n/a	U
S09V000897			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.824	n/a	n/a	n/a	n/a	0.824	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX4
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000897			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.750	n/a	n/a	n/a	n/a	0.750	n/a	U
S09V000897			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.64	n/a	n/a	n/a	n/a	1.64	n/a	U
S09V000897			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.169	n/a	n/a	n/a	n/a	0.169	n/a	U
S09V000897			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX5
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000957			%WATERA	%WATER-APD	%	n/a	n/a	7.163	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V000957			57-12-5	Cyanide	ug/g	91.5	<0.0370	<4.84	n/a	n/a	n/a	n/a	4.84	n/a	Ub
S09V000957			7439-97-6	Mercury	ug/g	103	<1.00E-04	<0.0392	n/a	n/a	n/a	n/a	0.0392	n/a	U
S09V000957			PH	pH	unitless	n/a	n/a	9.08	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000957			18496-25-8	Sulfide	ug/g	91.9	<0.180	11.5	11.2	11.3	3.39	98.2	7.14	n/a	J
S09V000959			10198-40-0	Cobalt-60	uCi/g	103	<3.90E-07	<3.90E-07	n/a	n/a	n/a	n/a	3.90E-07	n/a	U
S09V000959			14234-35-6	Antimony-125	uCi/g	n/a	<1.06E-06	<1.20E-06	n/a	n/a	n/a	n/a	1.20E-06	n/a	U
S09V000959			10045-97-3	Cesium-137	uCi/g	106	<4.92E-07	<4.79E-07	n/a	n/a	n/a	n/a	4.79E-07	n/a	U
S09V000959			14683-23-9	Europium-152	uCi/g	n/a	<2.04E-06	<2.28E-06	n/a	n/a	n/a	n/a	2.28E-06	n/a	U
S09V000959			15585-10-1	Europium-154	uCi/g	n/a	<1.35E-06	<1.31E-06	n/a	n/a	n/a	n/a	1.31E-06	n/a	U
S09V000959			14391-16-3	Europium-155	uCi/g	n/a	<7.64E-07	<8.16E-07	n/a	n/a	n/a	n/a	8.16E-07	n/a	U
S09V000959			14274-82-9	Thorium-228	uCi/g	n/a	<1.72E-05	<1.79E-05	n/a	n/a	n/a	n/a	1.79E-05	n/a	U
S09V000959			15065-10-8	Thorium-234	uCi/g	n/a	<6.65E-06	<6.99E-06	n/a	n/a	n/a	n/a	6.99E-06	n/a	U
S09V000959			15046-84-1	Iodine-129	uCi/g	95.2	<1.40E-07	<1.20E-07	n/a	n/a	n/a	n/a	1.20E-07	n/a	U
S09V001007		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	69.3	<77.4	<77.0	n/a	n/a	n/a	61.3	77.0	n/a	U
S09V001007		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S09V001007		O	106-46-7	1,4-Dichlorobenzene	ug/kg	66.6	<113	<113	n/a	n/a	n/a	57.6	113	n/a	U
S09V001007		O	121-14-2	2,4-Dinitrotoluene	ug/kg	75.9	<38.1	<37.9	n/a	n/a	n/a	71.7	37.9	n/a	U
S09V001007		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.8	n/a	n/a	n/a	n/a	43.8	n/a	U
S09V001007		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S09V001007		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S09V001007		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.4	n/a	n/a	n/a	n/a	53.4	n/a	U
S09V001007		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S09V001007		O	83-32-9	Acenaphthene	ug/kg	74.8	<17.6	<17.5	n/a	n/a	n/a	69.4	17.5	n/a	U
S09V001007		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S09V001007		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S09V001007		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S09V001007		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<587	n/a	n/a	n/a	n/a	587	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX5
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001007		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S09V001007		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S09V001007		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	71.3	<43.2	<43.0	n/a	n/a	n/a	66.5	43.0	n/a	U
S09V001007		O	95-57-8	2-Chlorophenol	ug/kg	69.7	<66.5	<66.2	n/a	n/a	n/a	61.1	66.2	n/a	U
S09V001007		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.0	n/a	n/a	n/a	n/a	81.0	n/a	U
S09V001007		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S09V001007		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<560	n/a	n/a	n/a	n/a	560	n/a	U
S09V001007		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.5	n/a	n/a	n/a	n/a	47.5	n/a	U
S09V001007		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.3	<58.1	<57.8	n/a	n/a	n/a	59.5	57.8	n/a	U
S09V001007		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.2	n/a	n/a	n/a	n/a	35.2	n/a	U
S09V001007		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.4	n/a	n/a	n/a	n/a	69.4	n/a	U
S09V001007		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V001007		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S09V001007		O	108-95-2	Phenol	ug/kg	70.5	<59.4	<59.1	n/a	n/a	n/a	63.5	59.1	n/a	U
S09V001007		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.3	n/a	n/a	n/a	n/a	62.3	n/a	U
S09V001007		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S09V001007		O	100-02-7	4-Nitrophenol	ug/kg	83.2	<52.6	<52.4	n/a	n/a	n/a	78.4	52.4	n/a	U
S09V001007		O	87-86-5	Pentachlorophenol	ug/kg	79.6	<37.5	<37.3	n/a	n/a	n/a	76.3	37.3	n/a	U
S09V001007		O	129-00-0	Pyrene	ug/kg	84.4	<62.9	<62.6	n/a	n/a	n/a	79.0	62.6	n/a	U
S09V001007		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.7	n/a	n/a	n/a	n/a	64.7	n/a	U
S09V001007		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V001007		O	128-37-0	BHT	ug/kg	n/a	<236	<225	n/a	n/a	n/a	n/a	225	n/a	U
S09V001007		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<175	n/a	n/a	n/a	n/a	175	n/a	U
S09V001007		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001007		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<535	n/a	n/a	n/a	n/a	535	n/a	U
S09V001007		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<183	n/a	n/a	n/a	n/a	183	n/a	U
S09V001007		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<440	n/a	n/a	n/a	n/a	440	n/a	U
S09V001012		W	14762-75-5	Carbon-14	uCi/g	100	<6.97E-05	<4.41E-05	<5.61E-05	n/a	n/a	100	4.41E-05	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX5
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001012		W	10028-17-8	Tritium	uCi/g	95.5	<3.35E-04	<3.29E-04	<3.86E-04	n/a	n/a	93.8	3.29E-04	n/a	U
S09V001017		A	7429-90-5	Aluminum	ug/g	90.2	<0.0300	4.56E+03	5.56E+03	5.06E+03	19.8	754	5.16	n/a	
S09V001017		A	7440-39-3	Barium	ug/g	96.3	<3.00E-03	50.2	59.2	54.7	16.6	97.6	0.516	n/a	
S09V001017		A	7440-41-7	Beryllium	ug/g	96.2	<1.00E-03	<0.172	0.184	0.178	6.77	93.9	0.172	n/a	U
S09V001017		A	7440-70-2	Calcium	ug/g	91.1	0.217	5.32E+03	5.53E+03	5.42E+03	3.81	367	8.60	n/a	
S09V001017		A	7440-45-1	Cerium	ug/g	98.9	<0.0300	13.8	16.0	14.9	15.0	96.5	5.16	n/a	J
S09V001017		A	7440-48-4	Cobalt	ug/g	93.4	<0.0100	6.29	6.01	6.15	4.56	90.6	1.72	n/a	J
S09V001017		A	7440-47-3	Chromium	ug/g	92.7	<5.00E-03	9.61	11.7	10.6	19.2	91.2	0.860	n/a	
S09V001017		A	7440-50-8	Copper	ug/g	95.1	<5.00E-03	7.79	8.69	8.24	10.9	96.0	0.860	n/a	J
S09V001017		A	7439-89-6	Iron	ug/g	91.6	<5.00E-03	1.36E+04	1.52E+04	1.44E+04	11.1	573	0.860	n/a	
S09V001017		A	7440-09-7	Potassium	ug/g	105	<0.500	9.28E+02	1.02E+03	9.74E+02	9.51	203	86.0	n/a	bf
S09V001017		A	7439-91-0	Lanthanum	ug/g	96.7	<3.00E-03	6.73	6.71	6.72	0.242	94.7	0.516	n/a	
S09V001017		A	7439-93-2	Lithium	ug/g	98.5	<3.00E-03	5.84	6.38	6.11	8.85	101	0.516	n/a	
S09V001017		A	7439-95-4	Magnesium	ug/g	90.1	<0.0500	3.41E+03	3.82E+03	3.62E+03	11.3	315	8.60	n/a	bf
S09V001017		A	7439-96-5	Manganese	ug/g	90.6	<3.00E-03	294	221	258	28.4	89.7	0.516	n/a	e
S09V001017		A	7439-98-7	Molybdenum	ug/g	92.8	<0.0200	<3.44	<3.38	n/a	n/a	90.4	3.44	n/a	U
S09V001017		A	7440-23-5	Sodium	ug/g	98.1	<0.100	231	251	241	8.48	159	17.2	n/a	b
S09V001017		A	7440-00-8	Neodymium	ug/g	99.0	<0.0100	17.4	19.5	18.4	11.7	97.3	1.72	n/a	
S09V001017		A	7723-14-0	Phosphorus	ug/g	93.0	<0.0500	497	503	500	1.21	94.1	8.60	n/a	
S09V001017		A	7704-34-9	Sulfur	ug/g	91.6	<0.100	54.5	125	89.5	78.3	88.5	17.2	n/a	Jc
S09V001017		A	7440-21-3	Silicon	ug/g	50.6	<0.0300	544	539	541	0.962	82.8	5.16	n/a	ae
S09V001017		A	7440-24-6	Strontium	ug/g	95.1	<3.00E-03	32.5	25.3	28.9	24.8	94.3	0.516	n/a	
S09V001017		A	7440-32-6	Titanium	ug/g	92.6	<5.00E-03	1.06E+03	1.24E+03	1.15E+03	15.9	115	0.860	n/a	e
S09V001017		A	7440-61-1	Uranium	ug/g	101	<0.100	<17.2	<16.9	n/a	n/a	94.4	17.2	n/a	U
S09V001017		A	7440-33-7	Tungsten	ug/g	90.4	<0.200	39.3	<33.8	n/a	n/a	98.1	34.4	n/a	J
S09V001017		A	7440-65-5	Yttrium	ug/g	91.0	<2.00E-03	5.66	6.03	5.84	6.33	88.2	0.344	n/a	
S09V001017		A	7440-66-6	Zinc	ug/g	89.7	7.01E-03	26.9	27.7	27.3	2.92	89.9	0.860	n/a	
S09V001017		A	7440-67-7	Zirconium	ug/g	92.3	<5.00E-03	8.71	n/a	n/a	n/a	89.8	0.860	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX5
Sample Depth: 43.5-45.5

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001017	A	7440-22-4	Silver	ug/g	89.4	<1.60E-04	0.0386	0.0601	0.0494	43.7	84.1	0.0275	n/a	J
S09V001017	A	7440-38-2	Arsenic	ug/g	101	<8.40E-04	1.70	1.87	1.79	9.71	109	0.145	n/a	
S09V001017	A	7440-43-9	Cadmium	ug/g	99.6	<6.00E-05	0.0510	0.0662	0.0586	26.0	110	0.0103	n/a	J
S09V001017	A	7439-92-1	Lead	ug/g	111	<6.20E-04	2.58	3.25	2.91	22.8	120	0.107	n/a	
S09V001017	A	7440-36-0	Antimony	ug/g	104	<8.80E-04	<0.151	<0.149	n/a	n/a	99.2	0.151	n/a	U
S09V001017	A	7782-49-2	Selenium	ug/g	114	3.02E-03	<0.210	<0.206	n/a	n/a	135	0.210	n/a	U
S09V001017	A	7440-28-0	Thallium	ug/g	110	<6.00E-05	0.0602	0.0726	0.0664	18.7	114	0.0103	n/a	J
S09V001017	A	7440-62-2	Vanadium	ug/g	103	<4.80E-04	39.6	43.8	41.7	10.0	113	0.826	n/a	
S09V001017	A	7440-02-0	Nickel	ug/g	105	2.96E-04	11.0	11.4	11.2	3.99	112	0.413	n/a	
S09V001022	S	14798-03-9	Ammonium	ug/g	97.8	<0.120	<0.478	n/a	n/a	n/a	n/a	0.478	n/a	U
S09V001027	A	14133-76-7	Technetium-99	ug/g	106	1.13E-05	1.57E-03	2.34E-03	1.96E-03	39.2	99.4	1.07E-03	n/a	BJ
S09V001027	A	SN-117	Tin-117	ug/g	111	<2.20E-04	<0.0391	<0.0412	n/a	n/a	93.6	0.0391	n/a	U
S09V001027	A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.11E-04	<7.49E-04	n/a	n/a	n/a	7.11E-04	n/a	U
S09V001032	E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.15E-07	<4.09E-07	n/a	n/a	n/a	n/a	4.09E-07	n/a	U
S09V001032	E	14596-10-2	Americium-241	uCi/g	107	<1.04E-06	<1.02E-06	n/a	n/a	n/a	n/a	1.02E-06	n/a	U
S09V001032	E	15510-73-3	Curium-242	uCi/g	n/a	<4.15E-07	<4.09E-07	n/a	n/a	n/a	n/a	4.09E-07	n/a	U
S09V001032	E	13981-37-8	Nickel-63	uCi/g	95.2	<5.84E-05	<5.05E-05	n/a	n/a	n/a	n/a	5.05E-05	n/a	U
S09V001032	E	PU-239/240	Plutonium-239/240	uCi/g	92.2	<1.20E-06	<6.19E-07	n/a	n/a	n/a	n/a	6.19E-07	n/a	U
S09V001032	E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.20E-06	<6.19E-07	n/a	n/a	n/a	n/a	6.19E-07	n/a	U
S09V001032	E	15758-45-9	Selenium-79	uCi/g	n/a	<2.70E-06	2.69E-06	n/a	n/a	n/a	n/a	1.36E-06	443.04	J
S09V001032	E	SR-89/90	Strontium-89/90	uCi/g	98.2	<2.60E-06	<1.87E-06	n/a	n/a	n/a	n/a	1.87E-06	n/a	U
S09V001325	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.66E-05	<2.65E-05	n/a	n/a	n/a	2.66E-05	n/a	U
S09V001325	A	TH-232	Thorium-232	ug/g	102	4.00E-06	2.11	2.21	2.16	4.81	n/a	6.45E-04	n/a	
S09V001325	A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.70E-04	6.77E-05	1.19E-04	85.9	n/a	3.80E-05	n/a	J
S09V001325	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	2.49E-05	2.50E-05	2.49E-05	0.645	n/a	1.90E-05	n/a	J
S09V001325	A	15117-96-1	Uranium-235	ug/g	95.7	<2.20E-07	3.12E-03	2.93E-03	3.03E-03	6.32	n/a	4.18E-05	n/a	
S09V001325	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.52E-05	<1.52E-05	n/a	n/a	n/a	1.52E-05	n/a	U
S09V001325	A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	<2.01E-04	<2.01E-04	n/a	n/a	112	2.01E-04	n/a	U

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B - Found in Blank
e - SERDIL Outside Range
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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX5
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001325		A	U-238	Uranium-238	ug/g	103	<1.10E-05	0.466	0.439	0.452	6.03	n/a	2.09E-03	n/a	
S09V001359		W	16984-48-8	Fluoride	ug/g	100	<1.61E-03	1.52	1.06	1.29	36.1	104	0.0201	n/a	c
S09V001359		W	666-14-8	Glycolate	ug/g	103	<9.37E-03	<0.117	<0.116	n/a	n/a	105	0.117	n/a	U
S09V001359		W	71-50-1	Acetate	ug/g	106	<6.04E-03	0.611	0.340	0.476	57.2	108	0.0753	n/a	J
S09V001359		W	12311-97-6	Formate	ug/g	104	<4.67E-03	0.382	0.166	0.274	78.8	106	0.0582	n/a	J
S09V001359		W	16887-00-6	Chloride	ug/g	99.9	<9.98E-03	1.40	1.04	1.22	29.2	103	0.124	n/a	
S09V001359		W	14797-65-0	Nitrite	ug/g	105	0.0582	1.41	0.967	1.19	37.0	107	0.239	n/a	BJ
S09V001359		W	14808-79-8	Sulfate	ug/g	103	0.0297	12.1	9.99	11.0	18.9	105	0.233	n/a	
S09V001359		W	338-70-5	Oxalate	ug/g	102	<0.0231	0.699	0.564	0.631	21.4	104	0.288	n/a	J
S09V001359		W	24959-67-9	Bromide	ug/g	98.0	<0.0580	<0.723	<0.716	n/a	n/a	99.8	0.723	n/a	U
S09V001359		W	14797-55-8	Nitrate	ug/g	100	0.0454	7.78	6.05	6.92	25.0	104	0.259	n/a	B
S09V001359		W	14265-44-2	Phosphate	ug/g	102	<0.0167	1.17	0.780	0.974	39.8	104	0.208	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX7
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000951			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.108	n/a	n/a	n/a	n/a	0.108	n/a	U
S09V000951			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S09V000951			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.269	n/a	n/a	n/a	n/a	0.269	n/a	U
S09V000951			75-35-4	1,1-Dichloroethene	ug/kg	106	<0.340	<0.183	n/a	n/a	n/a	n/a	0.183	n/a	U
S09V000951			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.0968	n/a	n/a	n/a	n/a	0.0968	n/a	U
S09V000951			71-36-3	1-Butanol	ug/kg	92.1	<15.5	<8.35	n/a	n/a	n/a	n/a	8.35	n/a	U
S09V000951			108-10-1	Hexone	ug/kg	124	<1.76	<0.946	n/a	n/a	n/a	n/a	0.946	n/a	U
S09V000951			67-64-1	Acetone	ug/kg	111	<4.38	3.08	n/a	n/a	n/a	n/a	2.35	n/a	J
S09V000951			71-43-2	Benzene	ug/kg	107	<0.320	<0.172	n/a	n/a	n/a	n/a	0.172	n/a	U
S09V000951			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V000951			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V000951			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.0968	n/a	n/a	n/a	n/a	0.0968	n/a	U
S09V000951			108-90-7	Chlorobenzene	ug/kg	109	<0.220	<0.118	n/a	n/a	n/a	n/a	0.118	n/a	U
S09V000951			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.129	n/a	n/a	n/a	n/a	0.129	n/a	U
S09V000951			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.333	n/a	n/a	n/a	n/a	0.333	n/a	U
S09V000951			78-93-3	2-Butanone	ug/kg	115	<2.66	<1.43	n/a	n/a	n/a	n/a	1.43	n/a	U
S09V000951			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.183	n/a	n/a	n/a	n/a	0.183	n/a	U
S09V000951			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.215	n/a	n/a	n/a	n/a	0.215	n/a	U
S09V000951			108-88-3	Toluene	ug/kg	113	<0.240	<0.129	n/a	n/a	n/a	n/a	0.129	n/a	U
S09V000951			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.0753	n/a	n/a	n/a	n/a	0.0753	n/a	U
S09V000951			79-01-6	Trichloroethene	ug/kg	106	<0.300	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V000951			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V000951			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.140	n/a	n/a	n/a	n/a	0.140	n/a	U
S09V000951			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V000951			110-54-3	Hexane	ug/kg	n/a	<0.440	15.4	n/a	n/a	n/a	n/a	0.237	n/a	
S09V000951			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.269	n/a	n/a	n/a	n/a	0.269	n/a	U
S09V000951			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<0.848	n/a	n/a	n/a	n/a	0.848	n/a	U
S09V000951			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.523	n/a	n/a	n/a	n/a	0.523	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX7
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000951			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.476	n/a	n/a	n/a	n/a	0.476	n/a	U
S09V000951			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.04	n/a	n/a	n/a	n/a	1.04	n/a	U
S09V000951			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.108	n/a	n/a	n/a	n/a	0.108	n/a	U
S09V000951			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.226	n/a	n/a	n/a	n/a	0.226	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W3
Sample Depth: 84-86

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000966		%WATERA	%WATER-APD	%	n/a	n/a	4.800	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V000966		57-12-5	Cyanide	ug/g	91.5	<0.0370	<5.64	n/a	n/a	n/a	n/a	5.64	n/a	Ub
S09V000966		7439-97-6	Mercury	ug/g	103	<1.00E-04	<0.0412	n/a	n/a	n/a	n/a	0.0412	n/a	U
S09V000966		PH	pH	unitless	n/a	n/a	9.02	9.00	9.01	0.222	n/a	0.0100	n/a	
S09V000966		18496-25-8	Sulfide	ug/g	91.9	<0.180	9.17	n/a	n/a	n/a	n/a	7.28	n/a	J
S09V001008	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	69.3	<77.4	<76.5	n/a	n/a	n/a	n/a	76.5	n/a	U
S09V001008	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.5	n/a	n/a	n/a	n/a	99.5	n/a	U
S09V001008	O	106-46-7	1,4-Dichlorobenzene	ug/kg	66.6	<113	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V001008	O	121-14-2	2,4-Dinitrotoluene	ug/kg	75.9	<38.1	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S09V001008	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S09V001008	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U
S09V001008	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.8	n/a	n/a	n/a	n/a	56.8	n/a	U
S09V001008	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.1	n/a	n/a	n/a	n/a	53.1	n/a	U
S09V001008	O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S09V001008	O	83-32-9	Acenaphthene	ug/kg	74.8	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S09V001008	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S09V001008	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U
S09V001008	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.7	n/a	n/a	n/a	n/a	40.7	n/a	U
S09V001008	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	1.36E+03	n/a	n/a	n/a	n/a	583	n/a	J
S09V001008	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.6	n/a	n/a	n/a	n/a	38.6	n/a	U
S09V001008	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S09V001008	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	71.3	<43.2	<42.7	n/a	n/a	n/a	n/a	42.7	n/a	U
S09V001008	O	95-57-8	2-Chlorophenol	ug/kg	69.7	<66.5	<65.7	n/a	n/a	n/a	n/a	65.7	n/a	U
S09V001008	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.5	n/a	n/a	n/a	n/a	80.5	n/a	U
S09V001008	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S09V001008	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<556	n/a	n/a	n/a	n/a	556	n/a	U
S09V001008	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S09V001008	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.3	<58.1	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W3
Sample Depth: 84-86

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001008		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.0	n/a	n/a	n/a	n/a	35.0	n/a	U
S09V001008		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.9	n/a	n/a	n/a	n/a	68.9	n/a	U
S09V001008		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V001008		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S09V001008		O	108-95-2	Phenol	ug/kg	70.5	<59.4	<58.7	n/a	n/a	n/a	n/a	58.7	n/a	U
S09V001008		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S09V001008		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S09V001008		O	100-02-7	4-Nitrophenol	ug/kg	83.2	<52.6	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S09V001008		O	87-86-5	Pentachlorophenol	ug/kg	79.6	<37.5	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S09V001008		O	129-00-0	Pyrene	ug/kg	84.4	<62.9	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S09V001008		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S09V001008		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V001008		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S09V001008		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S09V001008		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V001008		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<553	n/a	n/a	n/a	n/a	553	n/a	U
S09V001008		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S09V001008		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
S09V001013		W	14762-75-5	Carbon-14	uCi/g	100	<6.97E-05	<4.18E-05	n/a	n/a	n/a	n/a	4.18E-05	n/a	U
S09V001013		W	10028-17-8	Tritium	uCi/g	95.5	<3.35E-04	<3.33E-04	n/a	n/a	n/a	n/a	3.33E-04	n/a	U
S09V001018		A	7429-90-5	Aluminum	ug/g	90.2	<0.0300	5.28E+03	n/a	n/a	n/a	n/a	5.26	n/a	
S09V001018		A	7440-39-3	Barium	ug/g	96.3	<3.00E-03	54.0	n/a	n/a	n/a	n/a	0.526	n/a	
S09V001018		A	7440-41-7	Beryllium	ug/g	96.2	<1.00E-03	0.212	n/a	n/a	n/a	n/a	0.175	n/a	J
S09V001018		A	7440-70-2	Calcium	ug/g	91.1	0.217	9.44E+03	n/a	n/a	n/a	n/a	8.77	n/a	
S09V001018		A	7440-45-1	Cerium	ug/g	98.9	<0.0300	21.4	n/a	n/a	n/a	n/a	5.26	n/a	J
S09V001018		A	7440-48-4	Cobalt	ug/g	93.4	<0.0100	5.61	n/a	n/a	n/a	n/a	1.75	n/a	J
S09V001018		A	7440-47-3	Chromium	ug/g	92.7	<5.00E-03	13.0	n/a	n/a	n/a	n/a	0.877	n/a	
S09V001018		A	7440-50-8	Copper	ug/g	95.1	<5.00E-03	8.51	n/a	n/a	n/a	n/a	0.877	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W3
Sample Depth: 84-86

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001018	A	7440-53-1	Europium	ug/g	93.1	<5.00E-03	1.52	n/a	n/a	n/a	n/a	0.877	n/a	J
S09V001018	A	7439-89-6	Iron	ug/g	91.6	<5.00E-03	1.36E+04	n/a	n/a	n/a	n/a	0.877	n/a	
S09V001018	A	7440-09-7	Potassium	ug/g	105	<0.500	1.14E+03	n/a	n/a	n/a	n/a	87.7	n/a	b
S09V001018	A	7439-91-0	Lanthanum	ug/g	96.7	<3.00E-03	8.58	n/a	n/a	n/a	n/a	0.526	n/a	
S09V001018	A	7439-93-2	Lithium	ug/g	98.5	<3.00E-03	8.09	n/a	n/a	n/a	n/a	0.526	n/a	
S09V001018	A	7439-95-4	Magnesium	ug/g	90.1	<0.0500	3.84E+03	n/a	n/a	n/a	n/a	8.77	n/a	b
S09V001018	A	7439-96-5	Manganese	ug/g	90.6	<3.00E-03	250	n/a	n/a	n/a	n/a	0.526	n/a	
S09V001018	A	7439-98-7	Molybdenum	ug/g	92.8	<0.0200	<3.51	n/a	n/a	n/a	n/a	3.51	n/a	U
S09V001018	A	7440-23-5	Sodium	ug/g	98.1	<0.100	192	n/a	n/a	n/a	n/a	17.5	n/a	b
S09V001018	A	7440-00-8	Neodymium	ug/g	99.0	<0.0100	17.7	n/a	n/a	n/a	n/a	1.75	n/a	
S09V001018	A	7723-14-0	Phosphorus	ug/g	93.0	<0.0500	463	n/a	n/a	n/a	n/a	8.77	n/a	
S09V001018	A	7704-34-9	Sulfur	ug/g	91.6	<0.100	37.7	n/a	n/a	n/a	n/a	17.5	n/a	Jc
S09V001018	A	7440-21-3	Silicon	ug/g	50.6	<0.0300	578	n/a	n/a	n/a	n/a	5.26	n/a	a
S09V001018	A	7440-24-6	Strontium	ug/g	95.1	<3.00E-03	28.7	n/a	n/a	n/a	n/a	0.526	n/a	
S09V001018	A	7440-32-6	Titanium	ug/g	92.6	<5.00E-03	864	n/a	n/a	n/a	n/a	0.877	n/a	
S09V001018	A	7440-61-1	Uranium	ug/g	101	<0.100	<17.5	n/a	n/a	n/a	n/a	17.5	n/a	U
S09V001018	A	7440-33-7	Tungsten	ug/g	90.4	<0.200	36.0	n/a	n/a	n/a	n/a	35.1	n/a	J
S09V001018	A	7440-65-5	Yttrium	ug/g	91.0	<2.00E-03	5.32	n/a	n/a	n/a	n/a	0.351	n/a	
S09V001018	A	7440-66-6	Zinc	ug/g	89.7	7.01E-03	29.4	n/a	n/a	n/a	n/a	0.877	n/a	
S09V001018	A	7440-67-7	Zirconium	ug/g	92.3	<5.00E-03	7.05	n/a	n/a	n/a	n/a	0.877	n/a	J
S09V001018	A	7440-22-4	Silver	ug/g	89.4	<1.60E-04	0.0570	n/a	n/a	n/a	n/a	0.0280	n/a	J
S09V001018	A	7440-38-2	Arsenic	ug/g	101	<8.40E-04	2.72	n/a	n/a	n/a	n/a	0.147	n/a	
S09V001018	A	7440-43-9	Cadmium	ug/g	99.6	<6.00E-05	0.0619	n/a	n/a	n/a	n/a	0.0105	n/a	J
S09V001018	A	7439-92-1	Lead	ug/g	111	<6.20E-04	5.61	n/a	n/a	n/a	n/a	0.109	n/a	
S09V001018	A	7440-36-0	Antimony	ug/g	104	<8.80E-04	0.198	n/a	n/a	n/a	n/a	0.154	n/a	J
S09V001018	A	7782-49-2	Selenium	ug/g	114	3.02E-03	<0.214	n/a	n/a	n/a	n/a	0.214	n/a	U
S09V001018	A	7440-28-0	Thallium	ug/g	110	<6.00E-05	0.0727	n/a	n/a	n/a	n/a	0.0105	n/a	J
S09V001018	A	7440-62-2	Vanadium	ug/g	103	<4.80E-04	35.0	n/a	n/a	n/a	n/a	0.842	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W3
Sample Depth: 84-86

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001018	A	7440-02-0	Nickel	ug/g	105	2.96E-04	12.8	n/a	n/a	n/a	n/a	0.421	n/a	
S09V001023	S	14798-03-9	Ammonium	ug/g	97.8	<0.120	0.978	n/a	n/a	n/a	n/a	0.473	n/a	J
S09V001028	A	14133-76-7	Technetium-99	ug/g	106	1.13E-05	2.32E-03	n/a	n/a	n/a	n/a	1.07E-03	n/a	BJ
S09V001028	A	SN-117	Tin-117	ug/g	111	<2.20E-04	<0.0392	n/a	n/a	n/a	n/a	0.0392	n/a	U
S09V001028	A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.12E-04	n/a	n/a	n/a	n/a	7.12E-04	n/a	U
S09V001033	E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.15E-07	<3.59E-07	n/a	n/a	n/a	n/a	3.59E-07	n/a	U
S09V001033	E	14596-10-2	Americium-241	uCi/g	107	<1.04E-06	<8.98E-07	n/a	n/a	n/a	n/a	8.98E-07	n/a	U
S09V001033	E	15510-73-3	Curium-242	uCi/g	n/a	<4.15E-07	<3.59E-07	n/a	n/a	n/a	n/a	3.59E-07	n/a	U
S09V001033	E	13981-37-8	Nickel-63	uCi/g	95.2	<5.84E-05	<6.09E-05	n/a	n/a	n/a	n/a	6.09E-05	n/a	U
S09V001033	E	PU-239/240	Plutonium-239/240	uCi/g	92.2	<1.20E-06	<5.72E-07	n/a	n/a	n/a	n/a	5.72E-07	n/a	U
S09V001033	E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.20E-06	<5.72E-07	n/a	n/a	n/a	n/a	5.72E-07	n/a	U
S09V001033	E	15758-45-9	Selenium-79	uCi/g	n/a	<2.70E-06	1.90E-06	n/a	n/a	n/a	n/a	1.37E-06	364.34	J
S09V001033	E	SR-89/90	Strontium-89/90	uCi/g	98.2	<2.60E-06	<3.18E-06	n/a	n/a	n/a	n/a	3.18E-06	n/a	U
S09V001326	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.62E-05	n/a	n/a	n/a	n/a	2.62E-05	n/a	U
S09V001326	A	TH-232	Thorium-232	ug/g	102	4.00E-06	1.88	n/a	n/a	n/a	n/a	6.36E-04	n/a	
S09V001326	A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	5.14E-05	n/a	n/a	n/a	n/a	3.74E-05	n/a	J
S09V001326	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	3.97E-05	n/a	n/a	n/a	n/a	1.87E-05	n/a	J
S09V001326	A	15117-96-1	Uranium-235	ug/g	95.7	<2.20E-07	2.06E-03	n/a	n/a	n/a	n/a	4.12E-05	n/a	
S09V001326	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.50E-05	n/a	n/a	n/a	n/a	1.50E-05	n/a	U
S09V001326	A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	<1.98E-04	n/a	n/a	n/a	n/a	1.98E-04	n/a	U
S09V001326	A	U-238	Uranium-238	ug/g	103	<1.10E-05	0.321	n/a	n/a	n/a	n/a	2.06E-03	n/a	
S09V001360	W	16984-48-8	Fluoride	ug/g	100	<1.61E-03	1.20	n/a	n/a	n/a	n/a	0.0195	n/a	c
S09V001360	W	666-14-8	Glycolate	ug/g	103	<9.37E-03	<0.114	n/a	n/a	n/a	n/a	0.114	n/a	U
S09V001360	W	71-50-1	Acetate	ug/g	106	<6.04E-03	0.384	n/a	n/a	n/a	n/a	0.0732	n/a	J
S09V001360	W	12311-97-6	Formate	ug/g	104	<4.67E-03	0.342	n/a	n/a	n/a	n/a	0.0566	n/a	J
S09V001360	W	16887-00-6	Chloride	ug/g	99.9	<9.98E-03	1.09	n/a	n/a	n/a	n/a	0.121	n/a	
S09V001360	W	14797-65-0	Nitrite	ug/g	105	0.0582	2.95	n/a	n/a	n/a	n/a	0.233	n/a	BJ
S09V001360	W	14808-79-8	Sulfate	ug/g	103	0.0297	11.8	n/a	n/a	n/a	n/a	0.227	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W3
Sample Depth: 84-86

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001360		W	338-70-5	Oxalate	ug/g	102	<0.0231	1.35	n/a	n/a	n/a	n/a	0.280	n/a	J
S09V001360		W	24959-67-9	Bromide	ug/g	98.0	<0.0580	<0.703	n/a	n/a	n/a	n/a	0.703	n/a	U
S09V001360		W	14797-55-8	Nitrate	ug/g	100	0.0454	4.98	n/a	n/a	n/a	n/a	0.252	n/a	B
S09V001360		W	14265-44-2	Phosphate	ug/g	102	<0.0167	0.684	n/a	n/a	n/a	n/a	0.202	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W5
Sample Depth: 84-86

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000960			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S09V000960			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.432	n/a	n/a	n/a	n/a	0.432	n/a	U
S09V000960			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.568	n/a	n/a	n/a	n/a	0.568	n/a	U
S09V000960			75-35-4	1,1-Dichloroethene	ug/kg	106	<0.340	<0.386	n/a	n/a	n/a	n/a	0.386	n/a	U
S09V000960			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.205	n/a	n/a	n/a	n/a	0.205	n/a	U
S09V000960			71-36-3	1-Butanol	ug/kg	92.1	<15.5	<17.7	n/a	n/a	n/a	n/a	17.7	n/a	U
S09V000960			108-10-1	Hexone	ug/kg	124	<1.76	<2.00	n/a	n/a	n/a	n/a	2.00	n/a	U
S09V000960			67-64-1	Acetone	ug/kg	111	<4.38	9.43	n/a	n/a	n/a	n/a	4.98	n/a	J
S09V000960			71-43-2	Benzene	ug/kg	107	<0.320	<0.364	n/a	n/a	n/a	n/a	0.364	n/a	U
S09V000960			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.341	n/a	n/a	n/a	n/a	0.341	n/a	U
S09V000960			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.341	n/a	n/a	n/a	n/a	0.341	n/a	U
S09V000960			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.205	n/a	n/a	n/a	n/a	0.205	n/a	U
S09V000960			108-90-7	Chlorobenzene	ug/kg	109	<0.220	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000960			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000960			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.705	n/a	n/a	n/a	n/a	0.705	n/a	U
S09V000960			78-93-3	2-Butanone	ug/kg	115	<2.66	<3.02	n/a	n/a	n/a	n/a	3.02	n/a	U
S09V000960			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.386	n/a	n/a	n/a	n/a	0.386	n/a	U
S09V000960			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.455	n/a	n/a	n/a	n/a	0.455	n/a	U
S09V000960			108-88-3	Toluene	ug/kg	113	<0.240	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000960			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V000960			79-01-6	Trichloroethene	ug/kg	106	<0.300	<0.341	n/a	n/a	n/a	n/a	0.341	n/a	U
S09V000960			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.727	n/a	n/a	n/a	n/a	0.727	n/a	U
S09V000960			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S09V000960			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.409	n/a	n/a	n/a	n/a	0.409	n/a	U
S09V000960			110-54-3	Hexane	ug/kg	n/a	<0.440	8.25	n/a	n/a	n/a	n/a	0.500	n/a	
S09V000960			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.568	n/a	n/a	n/a	n/a	0.568	n/a	U
S09V000960			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.79	n/a	n/a	n/a	n/a	1.79	n/a	U
S09V000960			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<1.10	n/a	n/a	n/a	n/a	1.10	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W5
Sample Depth: 84-86

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000960			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<1.01	n/a	n/a	n/a	n/a	1.01	n/a	U
S09V000960			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<2.20	n/a	n/a	n/a	n/a	2.20	n/a	U
S09V000960			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S09V000960			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.477	n/a	n/a	n/a	n/a	0.477	n/a	U
S09V000968			13966-00-2	Potassium-40	uCi/g	n/a	<9.74E-06	1.41E-05	1.58E-05	1.50E-05	11.0	n/a	8.44E-06	39.99	J
S09V000968			10198-40-0	Cobalt-60	uCi/g	103	<3.90E-07	<4.36E-07	<5.97E-07	n/a	n/a	n/a	4.36E-07	n/a	U
S09V000968			14234-35-6	Antimony-125	uCi/g	n/a	<1.06E-06	<1.16E-06	<1.27E-06	n/a	n/a	n/a	1.16E-06	n/a	U
S09V000968			10045-97-3	Cesium-137	uCi/g	106	<4.92E-07	<5.21E-07	<5.56E-07	n/a	n/a	n/a	5.21E-07	n/a	U
S09V000968			14683-23-9	Europium-152	uCi/g	n/a	<2.04E-06	<2.27E-06	<2.47E-06	n/a	n/a	n/a	2.27E-06	n/a	U
S09V000968			15585-10-1	Europium-154	uCi/g	n/a	<1.35E-06	<1.37E-06	<1.57E-06	n/a	n/a	n/a	1.37E-06	n/a	U
S09V000968			14391-16-3	Europium-155	uCi/g	n/a	<7.64E-07	<8.50E-07	<9.46E-07	n/a	n/a	n/a	8.50E-07	n/a	U
S09V000968			15092-94-1	Lead-212	uCi/g	n/a	<6.63E-07	7.63E-07	7.08E-07	7.36E-07	7.40	n/a	6.54E-07	35.19	J
S09V000968			14274-82-9	Thorium-228	uCi/g	n/a	<1.72E-05	<1.74E-05	<2.03E-05	n/a	n/a	n/a	1.74E-05	n/a	U
S09V000968			15065-10-8	Thorium-234	uCi/g	n/a	<6.65E-06	<6.94E-06	<7.99E-06	n/a	n/a	n/a	6.94E-06	n/a	U
S09V000968			15046-84-1	Iodine-129	uCi/g	95.2	<1.40E-07	<1.28E-07	n/a	n/a	n/a	n/a	1.28E-07	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W6
Sample Depth: 109.5-111.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000987			%WATERA	%WATER-APD	%	n/a	n/a	2.586	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V000987			57-12-5	Cyanide	ug/g	91.5	<0.0370	<4.84	n/a	n/a	n/a	n/a	4.84	n/a	Ub
S09V000987			7439-97-6	Mercury	ug/g	101	<1.00E-04	<0.0210	n/a	n/a	n/a	101	0.0210	n/a	U
S09V000987			PH	pH	unitless	n/a	n/a	8.72	8.89	8.80	1.93	n/a	0.0100	n/a	
S09V000987			18496-25-8	Sulfide	ug/g	91.9	<0.180	<7.22	n/a	n/a	n/a	n/a	7.22	n/a	U
S09V000993			10198-40-0	Cobalt-60	uCi/g	103	<3.90E-07	<4.97E-07	n/a	n/a	n/a	n/a	4.97E-07	n/a	U
S09V000993			14234-35-6	Antimony-125	uCi/g	n/a	<1.06E-06	<1.12E-06	n/a	n/a	n/a	n/a	1.12E-06	n/a	U
S09V000993			10045-97-3	Cesium-137	uCi/g	106	<4.92E-07	<5.10E-07	n/a	n/a	n/a	n/a	5.10E-07	n/a	U
S09V000993			14683-23-9	Europium-152	uCi/g	n/a	<2.04E-06	<2.19E-06	n/a	n/a	n/a	n/a	2.19E-06	n/a	U
S09V000993			15585-10-1	Europium-154	uCi/g	n/a	<1.35E-06	<1.25E-06	n/a	n/a	n/a	n/a	1.25E-06	n/a	U
S09V000993			14391-16-3	Europium-155	uCi/g	n/a	<7.64E-07	<8.11E-07	n/a	n/a	n/a	n/a	8.11E-07	n/a	U
S09V000993			14274-82-9	Thorium-228	uCi/g	n/a	<1.72E-05	<1.80E-05	n/a	n/a	n/a	n/a	1.80E-05	n/a	U
S09V000993			15065-10-8	Thorium-234	uCi/g	n/a	<6.65E-06	<7.04E-06	n/a	n/a	n/a	n/a	7.04E-06	n/a	U
S09V000993			15046-84-1	Iodine-129	uCi/g	95.2	<1.40E-07	<1.40E-07	n/a	n/a	n/a	n/a	1.40E-07	n/a	U
S09V001009		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	69.3	<77.4	<70.1	n/a	n/a	n/a	n/a	70.1	n/a	U
S09V001009		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<91.2	n/a	n/a	n/a	n/a	91.2	n/a	U
S09V001009		O	106-46-7	1,4-Dichlorobenzene	ug/kg	66.6	<113	<103	n/a	n/a	n/a	n/a	103	n/a	U
S09V001009		O	121-14-2	2,4-Dinitrotoluene	ug/kg	75.9	<38.1	<34.5	n/a	n/a	n/a	n/a	34.5	n/a	U
S09V001009		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<39.8	n/a	n/a	n/a	n/a	39.8	n/a	U
S09V001009		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<44.8	n/a	n/a	n/a	n/a	44.8	n/a	U
S09V001009		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S09V001009		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S09V001009		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<46.5	n/a	n/a	n/a	n/a	46.5	n/a	U
S09V001009		O	83-32-9	Acenaphthene	ug/kg	74.8	<17.6	<15.9	n/a	n/a	n/a	n/a	15.9	n/a	U
S09V001009		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<34.2	n/a	n/a	n/a	n/a	34.2	n/a	U
S09V001009		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<44.3	n/a	n/a	n/a	n/a	44.3	n/a	U
S09V001009		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S09V001009		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<534	n/a	n/a	n/a	n/a	534	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W6
Sample Depth: 109.5-111.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001009		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S09V001009		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<45.3	n/a	n/a	n/a	n/a	45.3	n/a	U
S09V001009		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	71.3	<43.2	<39.1	n/a	n/a	n/a	n/a	39.1	n/a	U
S09V001009		O	95-57-8	2-Chlorophenol	ug/kg	69.7	<66.5	<60.2	n/a	n/a	n/a	n/a	60.2	n/a	U
S09V001009		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<73.7	n/a	n/a	n/a	n/a	73.7	n/a	U
S09V001009		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<46.3	n/a	n/a	n/a	n/a	46.3	n/a	U
S09V001009		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<509	n/a	n/a	n/a	n/a	509	n/a	U
S09V001009		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S09V001009		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.3	<58.1	<52.6	n/a	n/a	n/a	n/a	52.6	n/a	U
S09V001009		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<32.0	n/a	n/a	n/a	n/a	32.0	n/a	U
S09V001009		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<63.1	n/a	n/a	n/a	n/a	63.1	n/a	U
S09V001009		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<101	n/a	n/a	n/a	n/a	101	n/a	U
S09V001009		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<46.2	n/a	n/a	n/a	n/a	46.2	n/a	U
S09V001009		O	108-95-2	Phenol	ug/kg	70.5	<59.4	<53.8	n/a	n/a	n/a	n/a	53.8	n/a	U
S09V001009		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<56.7	n/a	n/a	n/a	n/a	56.7	n/a	U
S09V001009		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<58.5	n/a	n/a	n/a	n/a	58.5	n/a	U
S09V001009		O	100-02-7	4-Nitrophenol	ug/kg	83.2	<52.6	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S09V001009		O	87-86-5	Pentachlorophenol	ug/kg	79.6	<37.5	<33.9	n/a	n/a	n/a	n/a	33.9	n/a	U
S09V001009		O	129-00-0	Pyrene	ug/kg	84.4	<62.9	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S09V001009		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<58.8	n/a	n/a	n/a	n/a	58.8	n/a	U
S09V001009		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<97.6	n/a	n/a	n/a	n/a	97.6	n/a	U
S09V001009		O	128-37-0	BHT	ug/kg	n/a	<236	<213	n/a	n/a	n/a	n/a	213	n/a	U
S09V001009		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<165	n/a	n/a	n/a	n/a	165	n/a	U
S09V001009		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<96.5	n/a	n/a	n/a	n/a	96.5	n/a	U
S09V001009		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<506	n/a	n/a	n/a	n/a	506	n/a	U
S09V001009		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<173	n/a	n/a	n/a	n/a	173	n/a	U
S09V001009		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<417	n/a	n/a	n/a	n/a	417	n/a	U
S09V001014		W	14762-75-5	Carbon-14	uCi/g	100	<6.97E-05	<4.48E-05	n/a	n/a	n/a	n/a	4.48E-05	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W6
Sample Depth: 109.5-111.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001014		W	10028-17-8	Tritium	uCi/g	95.5	<3.35E-04	<2.54E-04	n/a	n/a	n/a	n/a	2.54E-04	n/a	U
S09V001019		A	7429-90-5	Aluminum	ug/g	90.2	<0.0300	5.60E+03	n/a	n/a	n/a	n/a	5.25	n/a	
S09V001019		A	7440-39-3	Barium	ug/g	96.3	<3.00E-03	47.4	n/a	n/a	n/a	n/a	0.525	n/a	
S09V001019		A	7440-41-7	Beryllium	ug/g	96.2	<1.00E-03	0.179	n/a	n/a	n/a	n/a	0.175	n/a	J
S09V001019		A	7440-70-2	Calcium	ug/g	91.1	0.217	6.77E+03	n/a	n/a	n/a	n/a	8.76	n/a	
S09V001019		A	7440-45-1	Cerium	ug/g	98.9	<0.0300	20.7	n/a	n/a	n/a	n/a	5.25	n/a	J
S09V001019		A	7440-48-4	Cobalt	ug/g	93.4	<0.0100	5.29	n/a	n/a	n/a	n/a	1.75	n/a	J
S09V001019		A	7440-47-3	Chromium	ug/g	92.7	<5.00E-03	14.1	n/a	n/a	n/a	n/a	0.876	n/a	
S09V001019		A	7440-50-8	Copper	ug/g	95.1	<5.00E-03	7.37	n/a	n/a	n/a	n/a	0.876	n/a	J
S09V001019		A	7440-53-1	Europium	ug/g	93.1	<5.00E-03	1.40	n/a	n/a	n/a	n/a	0.876	n/a	J
S09V001019		A	7439-89-6	Iron	ug/g	91.6	<5.00E-03	1.31E+04	n/a	n/a	n/a	n/a	0.876	n/a	
S09V001019		A	7440-09-7	Potassium	ug/g	105	<0.500	1.09E+03	n/a	n/a	n/a	n/a	87.6	n/a	b
S09V001019		A	7439-91-0	Lanthanum	ug/g	96.7	<3.00E-03	8.37	n/a	n/a	n/a	n/a	0.525	n/a	
S09V001019		A	7439-93-2	Lithium	ug/g	98.5	<3.00E-03	9.59	n/a	n/a	n/a	n/a	0.525	n/a	
S09V001019		A	7439-95-4	Magnesium	ug/g	90.1	<0.0500	4.33E+03	n/a	n/a	n/a	n/a	8.76	n/a	b
S09V001019		A	7439-96-5	Manganese	ug/g	90.6	<3.00E-03	205	n/a	n/a	n/a	n/a	0.525	n/a	
S09V001019		A	7439-98-7	Molybdenum	ug/g	92.8	<0.0200	<3.50	n/a	n/a	n/a	n/a	3.50	n/a	U
S09V001019		A	7440-23-5	Sodium	ug/g	98.1	<0.100	271	n/a	n/a	n/a	n/a	17.5	n/a	b
S09V001019		A	7440-00-8	Neodymium	ug/g	99.0	<0.0100	18.1	n/a	n/a	n/a	n/a	1.75	n/a	
S09V001019		A	7723-14-0	Phosphorus	ug/g	93.0	<0.0500	460	n/a	n/a	n/a	n/a	8.76	n/a	
S09V001019		A	7704-34-9	Sulfur	ug/g	91.6	<0.100	84.1	n/a	n/a	n/a	n/a	17.5	n/a	Jc
S09V001019		A	7440-21-3	Silicon	ug/g	50.6	<0.0300	473	n/a	n/a	n/a	n/a	5.25	n/a	a
S09V001019		A	7440-24-6	Strontium	ug/g	95.1	<3.00E-03	21.9	n/a	n/a	n/a	n/a	0.525	n/a	
S09V001019		A	7440-32-6	Titanium	ug/g	92.6	<5.00E-03	875	n/a	n/a	n/a	n/a	0.876	n/a	
S09V001019		A	7440-61-1	Uranium	ug/g	101	<0.100	<17.5	n/a	n/a	n/a	n/a	17.5	n/a	U
S09V001019		A	7440-33-7	Tungsten	ug/g	90.4	<0.200	43.3	n/a	n/a	n/a	n/a	35.0	n/a	J
S09V001019		A	7440-65-5	Yttrium	ug/g	91.0	<2.00E-03	5.06	n/a	n/a	n/a	n/a	0.350	n/a	
S09V001019		A	7440-66-6	Zinc	ug/g	89.7	7.01E-03	26.6	n/a	n/a	n/a	n/a	0.876	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W6
Sample Depth: 109.5-111.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001019		A	7440-67-7	Zirconium	ug/g	92.3	<5.00E-03	5.79	n/a	n/a	n/a	n/a	0.876	n/a	J
S09V001019		A	7440-22-4	Silver	ug/g	89.4	<1.60E-04	0.0535	n/a	n/a	n/a	n/a	0.0280	n/a	J
S09V001019		A	7440-38-2	Arsenic	ug/g	101	<8.40E-04	2.80	n/a	n/a	n/a	n/a	0.147	n/a	
S09V001019		A	7440-43-9	Cadmium	ug/g	99.6	<6.00E-05	0.0551	n/a	n/a	n/a	n/a	0.0105	n/a	J
S09V001019		A	7439-92-1	Lead	ug/g	111	<6.20E-04	4.47	n/a	n/a	n/a	n/a	0.109	n/a	
S09V001019		A	7440-36-0	Antimony	ug/g	104	<8.80E-04	<0.154	n/a	n/a	n/a	n/a	0.154	n/a	U
S09V001019		A	7782-49-2	Selenium	ug/g	114	3.02E-03	<0.214	n/a	n/a	n/a	n/a	0.214	n/a	U
S09V001019		A	7440-28-0	Thallium	ug/g	110	<6.00E-05	0.0661	n/a	n/a	n/a	n/a	0.0105	n/a	J
S09V001019		A	7440-62-2	Vanadium	ug/g	103	<4.80E-04	38.6	n/a	n/a	n/a	n/a	0.841	n/a	
S09V001019		A	7440-02-0	Nickel	ug/g	105	2.96E-04	11.8	n/a	n/a	n/a	n/a	0.420	n/a	
S09V001024		S	14798-03-9	Ammonium	ug/g	97.8	<0.120	1.27	n/a	n/a	n/a	n/a	0.477	n/a	J
S09V001029		A	14133-76-7	Technetium-99	ug/g	106	1.13E-05	4.26E-03	n/a	n/a	n/a	n/a	1.12E-03	n/a	BJ
S09V001029		A	SN-117	Tin-117	ug/g	111	<2.20E-04	<0.0412	n/a	n/a	n/a	n/a	0.0412	n/a	U
S09V001029		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.50E-04	n/a	n/a	n/a	n/a	7.50E-04	n/a	U
S09V001034		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.15E-07	<3.91E-07	n/a	n/a	n/a	n/a	3.91E-07	n/a	U
S09V001034		E	14596-10-2	Americium-241	uCi/g	107	<1.04E-06	<9.77E-07	n/a	n/a	n/a	n/a	9.77E-07	n/a	U
S09V001034		E	15510-73-3	Curium-242	uCi/g	n/a	<4.15E-07	<3.91E-07	n/a	n/a	n/a	n/a	3.91E-07	n/a	U
S09V001034		E	13981-37-8	Nickel-63	uCi/g	95.2	<5.84E-05	<5.11E-05	n/a	n/a	n/a	n/a	5.11E-05	n/a	U
S09V001034		E	PU-239/240	Plutonium-239/240	uCi/g	92.2	<1.20E-06	<6.13E-07	n/a	n/a	n/a	n/a	6.13E-07	n/a	U
S09V001034		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.20E-06	<6.13E-07	n/a	n/a	n/a	n/a	6.13E-07	n/a	U
S09V001034		E	15758-45-9	Selenium-79	uCi/g	n/a	<2.70E-06	2.70E-06	n/a	n/a	n/a	n/a	1.40E-06	916.12	J
S09V001034		E	SR-89/90	Strontium-89/90	uCi/g	98.2	<2.60E-06	<2.88E-06	n/a	n/a	n/a	n/a	2.88E-06	n/a	U
S09V001327		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	2.77E-05	n/a	n/a	n/a	n/a	2.60E-05	n/a	J
S09V001327		A	TH-232	Thorium-232	ug/g	102	4.00E-06	2.39	n/a	n/a	n/a	n/a	6.32E-04	n/a	
S09V001327		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	5.60E-05	n/a	n/a	n/a	n/a	3.72E-05	n/a	J
S09V001327		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	1.97E-05	n/a	n/a	n/a	n/a	1.86E-05	n/a	J
S09V001327		A	15117-96-1	Uranium-235	ug/g	95.7	<2.20E-07	2.67E-03	n/a	n/a	n/a	n/a	4.09E-05	n/a	
S09V001327		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.49E-05	n/a	n/a	n/a	n/a	1.49E-05	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W6
Sample Depth: 109.5-111.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001327		A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	<1.97E-04	n/a	n/a	n/a	n/a	1.97E-04	n/a	U
S09V001327		A	U-238	Uranium-238	ug/g	103	<1.10E-05	0.385	n/a	n/a	n/a	n/a	2.05E-03	n/a	
S09V001361		W	16984-48-8	Fluoride	ug/g	100	<1.61E-03	0.780	n/a	n/a	n/a	n/a	0.0197	n/a	c
S09V001361		W	666-14-8	Glycolate	ug/g	103	<9.37E-03	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S09V001361		W	71-50-1	Acetate	ug/g	106	<6.04E-03	0.556	n/a	n/a	n/a	n/a	0.0739	n/a	J
S09V001361		W	12311-97-6	Formate	ug/g	104	<4.67E-03	0.221	n/a	n/a	n/a	n/a	0.0572	n/a	J
S09V001361		W	16887-00-6	Chloride	ug/g	99.9	<9.98E-03	1.45	n/a	n/a	n/a	n/a	0.122	n/a	
S09V001361		W	14797-65-0	Nitrite	ug/g	105	0.0582	3.89	n/a	n/a	n/a	n/a	0.235	n/a	B
S09V001361		W	14808-79-8	Sulfate	ug/g	103	0.0297	53.3	n/a	n/a	n/a	n/a	0.229	n/a	
S09V001361		W	338-70-5	Oxalate	ug/g	102	<0.0231	0.409	n/a	n/a	n/a	n/a	0.283	n/a	J
S09V001361		W	24959-67-9	Bromide	ug/g	98.0	<0.0580	<0.710	n/a	n/a	n/a	n/a	0.710	n/a	U
S09V001361		W	14797-55-8	Nitrate	ug/g	100	0.0454	87.8	n/a	n/a	n/a	n/a	0.255	n/a	
S09V001361		W	14265-44-2	Phosphate	ug/g	102	<0.0167	0.304	n/a	n/a	n/a	n/a	0.204	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W8
Sample Depth: 109.5-111.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000969			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.208	n/a	n/a	n/a	n/a	0.208	n/a	U
S09V000969			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.396	n/a	n/a	n/a	n/a	0.396	n/a	U
S09V000969			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.521	n/a	n/a	n/a	n/a	0.521	n/a	U
S09V000969			75-35-4	1,1-Dichloroethene	ug/kg	106	<0.340	<0.354	n/a	n/a	n/a	n/a	0.354	n/a	U
S09V000969			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V000969			71-36-3	1-Butanol	ug/kg	92.1	<15.5	<16.2	n/a	n/a	n/a	n/a	16.2	n/a	U
S09V000969			108-10-1	Hexone	ug/kg	124	<1.76	<1.83	n/a	n/a	n/a	n/a	1.83	n/a	U
S09V000969			67-64-1	Acetone	ug/kg	111	<4.38	11.9	n/a	n/a	n/a	n/a	4.56	n/a	J
S09V000969			71-43-2	Benzene	ug/kg	107	<0.320	<0.333	n/a	n/a	n/a	n/a	0.333	n/a	U
S09V000969			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.312	n/a	n/a	n/a	n/a	0.312	n/a	U
S09V000969			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.312	n/a	n/a	n/a	n/a	0.312	n/a	U
S09V000969			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V000969			108-90-7	Chlorobenzene	ug/kg	109	<0.220	<0.229	n/a	n/a	n/a	n/a	0.229	n/a	U
S09V000969			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000969			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.646	n/a	n/a	n/a	n/a	0.646	n/a	U
S09V000969			78-93-3	2-Butanone	ug/kg	115	<2.66	<2.77	n/a	n/a	n/a	n/a	2.77	n/a	U
S09V000969			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.354	n/a	n/a	n/a	n/a	0.354	n/a	U
S09V000969			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.417	n/a	n/a	n/a	n/a	0.417	n/a	U
S09V000969			108-88-3	Toluene	ug/kg	113	<0.240	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000969			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.146	n/a	n/a	n/a	n/a	0.146	n/a	U
S09V000969			79-01-6	Trichloroethene	ug/kg	106	<0.300	<0.312	n/a	n/a	n/a	n/a	0.312	n/a	U
S09V000969			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.667	n/a	n/a	n/a	n/a	0.667	n/a	U
S09V000969			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.271	n/a	n/a	n/a	n/a	0.271	n/a	U
S09V000969			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.375	n/a	n/a	n/a	n/a	0.375	n/a	U
S09V000969			110-54-3	Hexane	ug/kg	n/a	<0.440	6.71	n/a	n/a	n/a	n/a	0.458	n/a	
S09V000969			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.521	n/a	n/a	n/a	n/a	0.521	n/a	U
S09V000969			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.64	n/a	n/a	n/a	n/a	1.64	n/a	U
S09V000969			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<1.01	n/a	n/a	n/a	n/a	1.01	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W8
Sample Depth: 109.5-111.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000969			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.922	n/a	n/a	n/a	n/a	0.922	n/a	U
S09V000969			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<2.02	n/a	n/a	n/a	n/a	2.02	n/a	U
S09V000969			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.208	n/a	n/a	n/a	n/a	0.208	n/a	U
S09V000969			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.438	n/a	n/a	n/a	n/a	0.438	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W9
Sample Depth: 114-116

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000988		%WATERA	%WATER-APD	%	n/a	n/a	3.381	3.311	3.346	2.092	n/a	0.01000	n/a	
S09V000988		57-12-5	Cyanide	ug/g	91.5	<0.0370	<4.87	n/a	n/a	n/a	n/a	4.87	n/a	Ub
S09V000988		7439-97-6	Mercury	ug/g	101	<1.00E-04	<0.0230	n/a	n/a	n/a	n/a	0.0230	n/a	U
S09V000988		PH	pH	unitless	n/a	n/a	8.83	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000988		18496-25-8	Sulfide	ug/g	98.0	<0.180	<7.10	n/a	n/a	n/a	n/a	7.10	n/a	U
S09V000994		13966-00-2	Potassium-40	uCi/g	n/a	<9.74E-06	1.24E-05	n/a	n/a	n/a	n/a	8.60E-06	45.58	J
S09V000994		10198-40-0	Cobalt-60	uCi/g	103	<3.90E-07	<4.90E-07	n/a	n/a	n/a	n/a	4.90E-07	n/a	U
S09V000994		14234-35-6	Antimony-125	uCi/g	n/a	<1.06E-06	<1.23E-06	n/a	n/a	n/a	n/a	1.23E-06	n/a	U
S09V000994		10045-97-3	Cesium-137	uCi/g	106	<4.92E-07	<5.11E-07	n/a	n/a	n/a	n/a	5.11E-07	n/a	U
S09V000994		14683-23-9	Europium-152	uCi/g	n/a	<2.04E-06	<2.29E-06	n/a	n/a	n/a	n/a	2.29E-06	n/a	U
S09V000994		15585-10-1	Europium-154	uCi/g	n/a	<1.35E-06	<1.48E-06	n/a	n/a	n/a	n/a	1.48E-06	n/a	U
S09V000994		14391-16-3	Europium-155	uCi/g	n/a	<7.64E-07	<8.61E-07	n/a	n/a	n/a	n/a	8.61E-07	n/a	U
S09V000994		14913-50-9	Thallium-208	uCi/g	n/a	<4.95E-07	7.10E-07	n/a	n/a	n/a	n/a	3.59E-07	36.86	J
S09V000994		14274-82-9	Thorium-228	uCi/g	n/a	<1.72E-05	<1.88E-05	n/a	n/a	n/a	n/a	1.88E-05	n/a	U
S09V000994		15065-10-8	Thorium-234	uCi/g	n/a	<6.65E-06	<7.53E-06	n/a	n/a	n/a	n/a	7.53E-06	n/a	U
S09V000994		15046-84-1	Iodine-129	uCi/g	95.2	<1.40E-07	<1.39E-07	n/a	n/a	n/a	n/a	1.39E-07	n/a	U
S09V001010	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	69.3	<77.4	<72.4	n/a	n/a	n/a	n/a	72.4	n/a	U
S09V001010	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<94.2	n/a	n/a	n/a	n/a	94.2	n/a	U
S09V001010	O	106-46-7	1,4-Dichlorobenzene	ug/kg	66.6	<113	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001010	O	121-14-2	2,4-Dinitrotoluene	ug/kg	75.9	<38.1	<35.7	n/a	n/a	n/a	n/a	35.7	n/a	U
S09V001010	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<41.2	n/a	n/a	n/a	n/a	41.2	n/a	U
S09V001010	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<46.3	n/a	n/a	n/a	n/a	46.3	n/a	U
S09V001010	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<53.8	n/a	n/a	n/a	n/a	53.8	n/a	U
S09V001010	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<50.3	n/a	n/a	n/a	n/a	50.3	n/a	U
S09V001010	O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U
S09V001010	O	83-32-9	Acenaphthene	ug/kg	74.8	<17.6	<16.5	n/a	n/a	n/a	n/a	16.5	n/a	U
S09V001010	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S09V001010	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<45.8	n/a	n/a	n/a	n/a	45.8	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W9
Sample Depth: 114-116

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001010		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<38.6	n/a	n/a	n/a	n/a	38.6	n/a	U
S09V001010		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<552	n/a	n/a	n/a	n/a	552	n/a	U
S09V001010		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S09V001010		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<46.8	n/a	n/a	n/a	n/a	46.8	n/a	U
S09V001010		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	71.3	<43.2	<40.4	n/a	n/a	n/a	n/a	40.4	n/a	U
S09V001010		O	95-57-8	2-Chlorophenol	ug/kg	69.7	<66.5	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S09V001010		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<76.2	n/a	n/a	n/a	n/a	76.2	n/a	U
S09V001010		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<47.8	n/a	n/a	n/a	n/a	47.8	n/a	U
S09V001010		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<526	n/a	n/a	n/a	n/a	526	n/a	U
S09V001010		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<44.6	n/a	n/a	n/a	n/a	44.6	n/a	U
S09V001010		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.3	<58.1	<54.4	n/a	n/a	n/a	n/a	54.4	n/a	U
S09V001010		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<33.1	n/a	n/a	n/a	n/a	33.1	n/a	U
S09V001010		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<65.2	n/a	n/a	n/a	n/a	65.2	n/a	U
S09V001010		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V001010		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S09V001010		O	108-95-2	Phenol	ug/kg	70.5	<59.4	<55.6	n/a	n/a	n/a	n/a	55.6	n/a	U
S09V001010		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<58.6	n/a	n/a	n/a	n/a	58.6	n/a	U
S09V001010		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<60.5	n/a	n/a	n/a	n/a	60.5	n/a	U
S09V001010		O	100-02-7	4-Nitrophenol	ug/kg	83.2	<52.6	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S09V001010		O	87-86-5	Pentachlorophenol	ug/kg	79.6	<37.5	<35.1	n/a	n/a	n/a	n/a	35.1	n/a	U
S09V001010		O	129-00-0	Pyrene	ug/kg	84.4	<62.9	<58.9	n/a	n/a	n/a	n/a	58.9	n/a	U
S09V001010		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<60.8	n/a	n/a	n/a	n/a	60.8	n/a	U
S09V001010		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<101	n/a	n/a	n/a	n/a	101	n/a	U
S09V001010		O	128-37-0	BHT	ug/kg	n/a	<236	<220	n/a	n/a	n/a	n/a	220	n/a	U
S09V001010		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<171	n/a	n/a	n/a	n/a	171	n/a	U
S09V001010		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<99.8	n/a	n/a	n/a	n/a	99.8	n/a	U
S09V001010		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<523	n/a	n/a	n/a	n/a	523	n/a	U
S09V001010		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<179	n/a	n/a	n/a	n/a	179	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W9
Sample Depth: 114-116

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001010		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<431	n/a	n/a	n/a	n/a	431	n/a	U
S09V001015		W	14762-75-5	Carbon-14	uCi/g	100	<6.97E-05	<4.23E-05	n/a	n/a	n/a	n/a	4.23E-05	n/a	U
S09V001015		W	10028-17-8	Tritium	uCi/g	95.5	<3.35E-04	<2.49E-04	n/a	n/a	n/a	n/a	2.49E-04	n/a	U
S09V001020		A	7429-90-5	Aluminum	ug/g	90.2	<0.0300	4.96E+03	n/a	n/a	n/a	n/a	5.43	n/a	
S09V001020		A	7440-39-3	Barium	ug/g	96.3	<3.00E-03	51.1	n/a	n/a	n/a	n/a	0.543	n/a	
S09V001020		A	7440-41-7	Beryllium	ug/g	96.2	<1.00E-03	0.188	n/a	n/a	n/a	n/a	0.181	n/a	J
S09V001020		A	7440-70-2	Calcium	ug/g	91.1	0.217	8.74E+03	n/a	n/a	n/a	n/a	9.04	n/a	
S09V001020		A	7440-45-1	Cerium	ug/g	98.9	<0.0300	21.5	n/a	n/a	n/a	n/a	5.43	n/a	J
S09V001020		A	7440-48-4	Cobalt	ug/g	93.4	<0.0100	5.85	n/a	n/a	n/a	n/a	1.81	n/a	J
S09V001020		A	7440-47-3	Chromium	ug/g	92.7	<5.00E-03	14.2	n/a	n/a	n/a	n/a	0.904	n/a	
S09V001020		A	7440-50-8	Copper	ug/g	95.1	<5.00E-03	7.98	n/a	n/a	n/a	n/a	0.904	n/a	J
S09V001020		A	7440-53-1	Europium	ug/g	93.1	<5.00E-03	1.14	n/a	n/a	n/a	n/a	0.904	n/a	J
S09V001020		A	7439-89-6	Iron	ug/g	91.6	<5.00E-03	1.42E+04	n/a	n/a	n/a	n/a	0.904	n/a	
S09V001020		A	7440-09-7	Potassium	ug/g	105	<0.500	1.15E+03	n/a	n/a	n/a	n/a	90.4	n/a	b
S09V001020		A	7439-91-0	Lanthanum	ug/g	96.7	<3.00E-03	8.89	n/a	n/a	n/a	n/a	0.543	n/a	
S09V001020		A	7439-93-2	Lithium	ug/g	98.5	<3.00E-03	8.28	n/a	n/a	n/a	n/a	0.543	n/a	
S09V001020		A	7439-95-4	Magnesium	ug/g	90.1	<0.0500	4.25E+03	n/a	n/a	n/a	n/a	9.04	n/a	b
S09V001020		A	7439-96-5	Manganese	ug/g	90.6	<3.00E-03	238	n/a	n/a	n/a	n/a	0.543	n/a	
S09V001020		A	7439-98-7	Molybdenum	ug/g	92.8	<0.0200	<3.62	n/a	n/a	n/a	n/a	3.62	n/a	U
S09V001020		A	7440-23-5	Sodium	ug/g	98.1	<0.100	164	n/a	n/a	n/a	n/a	18.1	n/a	Jb
S09V001020		A	7440-00-8	Neodymium	ug/g	99.0	<0.0100	18.5	n/a	n/a	n/a	n/a	1.81	n/a	
S09V001020		A	7723-14-0	Phosphorus	ug/g	93.0	<0.0500	430	n/a	n/a	n/a	n/a	9.04	n/a	
S09V001020		A	7704-34-9	Sulfur	ug/g	91.6	<0.100	83.4	n/a	n/a	n/a	n/a	18.1	n/a	Jc
S09V001020		A	7440-21-3	Silicon	ug/g	50.6	<0.0300	500	n/a	n/a	n/a	n/a	5.43	n/a	a
S09V001020		A	7440-24-6	Strontium	ug/g	95.1	<3.00E-03	23.7	n/a	n/a	n/a	n/a	0.543	n/a	
S09V001020		A	7440-32-6	Titanium	ug/g	92.6	<5.00E-03	831	n/a	n/a	n/a	n/a	0.904	n/a	
S09V001020		A	7440-61-1	Uranium	ug/g	101	<0.100	<18.1	n/a	n/a	n/a	n/a	18.1	n/a	U
S09V001020		A	7440-33-7	Tungsten	ug/g	90.4	<0.200	<36.2	n/a	n/a	n/a	n/a	36.2	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W9
Sample Depth: 114-116

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001020		A	7440-65-5	Yttrium	ug/g	91.0	<2.00E-03	5.36	n/a	n/a	n/a	n/a	0.362	n/a	
S09V001020		A	7440-66-6	Zinc	ug/g	89.7	7.01E-03	27.4	n/a	n/a	n/a	n/a	0.904	n/a	
S09V001020		A	7440-67-7	Zirconium	ug/g	92.3	<5.00E-03	6.82	n/a	n/a	n/a	n/a	0.904	n/a	J
S09V001020		A	7440-22-4	Silver	ug/g	89.4	<1.60E-04	0.0528	n/a	n/a	n/a	n/a	0.0289	n/a	J
S09V001020		A	7440-38-2	Arsenic	ug/g	101	<8.40E-04	3.26	n/a	n/a	n/a	n/a	0.152	n/a	
S09V001020		A	7440-43-9	Cadmium	ug/g	99.6	<6.00E-05	0.0544	n/a	n/a	n/a	n/a	0.0109	n/a	J
S09V001020		A	7439-92-1	Lead	ug/g	111	<6.20E-04	4.83	n/a	n/a	n/a	n/a	0.112	n/a	
S09V001020		A	7440-36-0	Antimony	ug/g	104	<8.80E-04	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V001020		A	7782-49-2	Selenium	ug/g	114	3.02E-03	<0.221	n/a	n/a	n/a	n/a	0.221	n/a	U
S09V001020		A	7440-28-0	Thallium	ug/g	110	<6.00E-05	0.0790	n/a	n/a	n/a	n/a	0.0109	n/a	J
S09V001020		A	7440-62-2	Vanadium	ug/g	103	<4.80E-04	27.8	n/a	n/a	n/a	n/a	0.868	n/a	
S09V001020		A	7440-02-0	Nickel	ug/g	105	2.96E-04	12.9	n/a	n/a	n/a	n/a	0.434	n/a	
S09V001025		S	14798-03-9	Ammonium	ug/g	99.4	<0.0120	<0.474	n/a	n/a	n/a	n/a	0.474	n/a	
S09V001030		A	14133-76-7	Technetium-99	ug/g	106	1.13E-05	4.44E-03	n/a	n/a	n/a	n/a	1.06E-03	n/a	BJ
S09V001030		A	SN-117	Tin-117	ug/g	111	<2.20E-04	<0.0388	n/a	n/a	n/a	n/a	0.0388	n/a	U
S09V001030		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.05E-04	n/a	n/a	n/a	n/a	7.05E-04	n/a	U
S09V001035		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.15E-07	<4.14E-07	n/a	n/a	n/a	n/a	4.14E-07	n/a	U
S09V001035		E	14596-10-2	Americium-241	uCi/g	107	<1.04E-06	<1.03E-06	n/a	n/a	n/a	n/a	1.03E-06	n/a	U
S09V001035		E	15510-73-3	Curium-242	uCi/g	n/a	<4.15E-07	<4.14E-07	n/a	n/a	n/a	n/a	4.14E-07	n/a	U
S09V001035		E	13981-37-8	Nickel-63	uCi/g	95.2	<5.84E-05	<4.98E-05	n/a	n/a	n/a	n/a	4.98E-05	n/a	U
S09V001035		E	PU-239/240	Plutonium-239/240	uCi/g	92.2	<1.20E-06	<6.59E-07	n/a	n/a	n/a	n/a	6.59E-07	n/a	U
S09V001035		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.20E-06	<6.59E-07	n/a	n/a	n/a	n/a	6.59E-07	n/a	U
S09V001035		E	15758-45-9	Selenium-79	uCi/g	n/a	<2.70E-06	<1.56E-06	n/a	n/a	n/a	n/a	1.56E-06	n/a	U
S09V001035		E	SR-89/90	Strontium-89/90	uCi/g	98.2	<2.60E-06	<1.83E-06	n/a	n/a	n/a	n/a	1.83E-06	n/a	U
S09V001328		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	4.16E-05	n/a	n/a	n/a	n/a	2.58E-05	n/a	J
S09V001328		A	TH-232	Thorium-232	ug/g	102	4.00E-06	2.41	n/a	n/a	n/a	n/a	6.25E-04	n/a	
S09V001328		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	6.11E-05	n/a	n/a	n/a	n/a	3.68E-05	n/a	J
S09V001328		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.84E-05	n/a	n/a	n/a	n/a	1.84E-05	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W9
Sample Depth: 114-116

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001328		A	15117-96-1	Uranium-235	ug/g	95.7	<2.20E-07	2.46E-03	n/a	n/a	n/a	n/a	4.05E-05	n/a	
S09V001328		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.47E-05	n/a	n/a	n/a	n/a	1.47E-05	n/a	U
S09V001328		A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	<1.95E-04	n/a	n/a	n/a	n/a	1.95E-04	n/a	U
S09V001328		A	U-238	Uranium-238	ug/g	103	<1.10E-05	0.368	n/a	n/a	n/a	n/a	2.02E-03	n/a	
S09V001362		W	16984-48-8	Fluoride	ug/g	100	<1.61E-03	1.27	n/a	n/a	n/a	n/a	0.0200	n/a	c
S09V001362		W	666-14-8	Glycolate	ug/g	103	<9.37E-03	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001362		W	71-50-1	Acetate	ug/g	106	<6.04E-03	0.287	n/a	n/a	n/a	n/a	0.0752	n/a	J
S09V001362		W	12311-97-6	Formate	ug/g	104	<4.67E-03	0.193	n/a	n/a	n/a	n/a	0.0581	n/a	J
S09V001362		W	16887-00-6	Chloride	ug/g	99.9	<9.98E-03	1.49	n/a	n/a	n/a	n/a	0.124	n/a	
S09V001362		W	14797-65-0	Nitrite	ug/g	105	0.0582	3.98	n/a	n/a	n/a	n/a	0.239	n/a	B
S09V001362		W	14808-79-8	Sulfate	ug/g	103	0.0297	43.1	n/a	n/a	n/a	n/a	0.233	n/a	
S09V001362		W	338-70-5	Oxalate	ug/g	102	<0.0231	<0.288	n/a	n/a	n/a	n/a	0.288	n/a	U
S09V001362		W	24959-67-9	Bromide	ug/g	98.0	<0.0580	<0.722	n/a	n/a	n/a	n/a	0.722	n/a	U
S09V001362		W	14797-55-8	Nitrate	ug/g	100	0.0454	90.3	n/a	n/a	n/a	n/a	0.259	n/a	
S09V001362		W	14265-44-2	Phosphate	ug/g	102	<0.0167	0.621	n/a	n/a	n/a	n/a	0.208	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X1
Sample Depth: 114-116

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000970			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V000970			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.302	n/a	n/a	n/a	n/a	0.302	n/a	U
S09V000970			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.397	n/a	n/a	n/a	n/a	0.397	n/a	U
S09V000970			75-35-4	1,1-Dichloroethene	ug/kg	94.4	<0.340	<0.270	n/a	n/a	n/a	n/a	0.270	n/a	U
S09V000970			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.143	n/a	n/a	n/a	n/a	0.143	n/a	U
S09V000970			71-36-3	1-Butanol	ug/kg	95.0	<15.5	<12.3	n/a	n/a	n/a	n/a	12.3	n/a	U
S09V000970			108-10-1	Hexone	ug/kg	112	<1.76	<1.40	n/a	n/a	n/a	n/a	1.40	n/a	U
S09V000970			67-64-1	Acetone	ug/kg	103	<4.38	<3.48	n/a	n/a	n/a	n/a	3.48	n/a	U
S09V000970			71-43-2	Benzene	ug/kg	101	<0.320	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000970			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.238	n/a	n/a	n/a	n/a	0.238	n/a	U
S09V000970			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.238	n/a	n/a	n/a	n/a	0.238	n/a	U
S09V000970			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.143	n/a	n/a	n/a	n/a	0.143	n/a	U
S09V000970			108-90-7	Chlorobenzene	ug/kg	97.2	<0.220	<0.175	n/a	n/a	n/a	n/a	0.175	n/a	U
S09V000970			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.190	n/a	n/a	n/a	n/a	0.190	n/a	U
S09V000970			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.492	n/a	n/a	n/a	n/a	0.492	n/a	U
S09V000970			78-93-3	2-Butanone	ug/kg	107	<2.66	<2.11	n/a	n/a	n/a	n/a	2.11	n/a	U
S09V000970			75-09-2	Methylenechloride	ug/kg	n/a	0.388	<0.270	n/a	n/a	n/a	n/a	0.270	n/a	U
S09V000970			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.317	n/a	n/a	n/a	n/a	0.317	n/a	U
S09V000970			100-42-5	Styrene	ug/kg	n/a	<0.200	0.506	n/a	n/a	n/a	n/a	0.159	n/a	J
S09V000970			108-88-3	Toluene	ug/kg	102	<0.240	<0.190	n/a	n/a	n/a	n/a	0.190	n/a	U
S09V000970			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000970			79-01-6	Trichloroethene	ug/kg	99.9	<0.300	<0.238	n/a	n/a	n/a	n/a	0.238	n/a	U
S09V000970			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.508	n/a	n/a	n/a	n/a	0.508	n/a	U
S09V000970			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.206	n/a	n/a	n/a	n/a	0.206	n/a	U
S09V000970			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.286	n/a	n/a	n/a	n/a	0.286	n/a	U
S09V000970			110-54-3	Hexane	ug/kg	n/a	<0.440	4.99	n/a	n/a	n/a	n/a	0.349	n/a	
S09V000970			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.397	n/a	n/a	n/a	n/a	0.397	n/a	U
S09V000970			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.25	n/a	n/a	n/a	n/a	1.25	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X1
Sample Depth: 114-116

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000970			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.771	n/a	n/a	n/a	n/a	0.771	n/a	U
S09V000970			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.702	n/a	n/a	n/a	n/a	0.702	n/a	U
S09V000970			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.54	n/a	n/a	n/a	n/a	1.54	n/a	U
S09V000970			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V000970			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.333	n/a	n/a	n/a	n/a	0.333	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X2
Sample Depth: 133-135

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000989			%WATERA	%WATER-APD	%	n/a	n/a	2.433	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V000989			57-12-5	Cyanide	ug/g	91.5	<0.0370	<5.03	n/a	n/a	n/a	n/a	5.03	n/a	Ub
S09V000989			7439-97-6	Mercury	ug/g	101	<1.00E-04	<0.0251	n/a	n/a	n/a	n/a	0.0251	n/a	U
S09V000989			PH	pH	unitless	n/a	n/a	8.79	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000989			18496-25-8	Sulfide	ug/g	98.0	<0.180	9.59	n/a	n/a	n/a	n/a	7.05	n/a	J
S09V000995			10198-40-0	Cobalt-60	uCi/g	103	<3.90E-07	<4.15E-07	n/a	n/a	n/a	n/a	4.15E-07	n/a	U
S09V000995			14234-35-6	Antimony-125	uCi/g	n/a	<1.06E-06	<1.08E-06	n/a	n/a	n/a	n/a	1.08E-06	n/a	U
S09V000995			10045-97-3	Cesium-137	uCi/g	106	<4.92E-07	<4.58E-07	n/a	n/a	n/a	n/a	4.58E-07	n/a	U
S09V000995			14683-23-9	Europium-152	uCi/g	n/a	<2.04E-06	<1.86E-06	n/a	n/a	n/a	n/a	1.86E-06	n/a	U
S09V000995			15585-10-1	Europium-154	uCi/g	n/a	<1.35E-06	<1.28E-06	n/a	n/a	n/a	n/a	1.28E-06	n/a	U
S09V000995			14391-16-3	Europium-155	uCi/g	n/a	<7.64E-07	<7.40E-07	n/a	n/a	n/a	n/a	7.40E-07	n/a	U
S09V000995			14274-82-9	Thorium-228	uCi/g	n/a	<1.72E-05	<1.61E-05	n/a	n/a	n/a	n/a	1.61E-05	n/a	U
S09V000995			15065-10-8	Thorium-234	uCi/g	n/a	<6.65E-06	<6.53E-06	n/a	n/a	n/a	n/a	6.53E-06	n/a	U
S09V000995			15046-84-1	Iodine-129	uCi/g	95.2	<1.40E-07	<1.30E-07	n/a	n/a	n/a	n/a	1.30E-07	n/a	U
S09V001011		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	69.3	<77.4	<77.2	n/a	n/a	n/a	n/a	77.2	n/a	U
S09V001011		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S09V001011		O	106-46-7	1,4-Dichlorobenzene	ug/kg	66.6	<113	<113	n/a	n/a	n/a	n/a	113	n/a	U
S09V001011		O	121-14-2	2,4-Dinitrotoluene	ug/kg	75.9	<38.1	<38.0	n/a	n/a	n/a	n/a	38.0	n/a	U
S09V001011		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S09V001011		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S09V001011		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S09V001011		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.6	n/a	n/a	n/a	n/a	53.6	n/a	U
S09V001011		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S09V001011		O	83-32-9	Acenaphthene	ug/kg	74.8	<17.6	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S09V001011		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S09V001011		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U
S09V001011		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.1	n/a	n/a	n/a	n/a	41.1	n/a	U
S09V001011		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	1.26E+03	n/a	n/a	n/a	n/a	589	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X2
Sample Depth: 133-135

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001011		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.0	n/a	n/a	n/a	n/a	39.0	n/a	U
S09V001011		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.9	n/a	n/a	n/a	n/a	49.9	n/a	U
S09V001011		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	71.3	<43.2	<43.1	n/a	n/a	n/a	n/a	43.1	n/a	U
S09V001011		O	95-57-8	2-Chlorophenol	ug/kg	69.7	<66.5	<66.4	n/a	n/a	n/a	n/a	66.4	n/a	U
S09V001011		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.2	n/a	n/a	n/a	n/a	81.2	n/a	U
S09V001011		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S09V001011		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<561	n/a	n/a	n/a	n/a	561	n/a	U
S09V001011		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S09V001011		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	67.3	<58.1	<58.0	n/a	n/a	n/a	n/a	58.0	n/a	U
S09V001011		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S09V001011		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.6	n/a	n/a	n/a	n/a	69.6	n/a	U
S09V001011		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V001011		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S09V001011		O	108-95-2	Phenol	ug/kg	70.5	<59.4	<59.3	n/a	n/a	n/a	n/a	59.3	n/a	U
S09V001011		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S09V001011		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.5	n/a	n/a	n/a	n/a	64.5	n/a	U
S09V001011		O	100-02-7	4-Nitrophenol	ug/kg	83.2	<52.6	<52.5	n/a	n/a	n/a	n/a	52.5	n/a	U
S09V001011		O	87-86-5	Pentachlorophenol	ug/kg	79.6	<37.5	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S09V001011		O	129-00-0	Pyrene	ug/kg	84.4	<62.9	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S09V001011		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.9	n/a	n/a	n/a	n/a	64.9	n/a	U
S09V001011		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V001011		O	128-37-0	BHT	ug/kg	n/a	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S09V001011		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S09V001011		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001011		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<558	n/a	n/a	n/a	n/a	558	n/a	U
S09V001011		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S09V001011		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<459	n/a	n/a	n/a	n/a	459	n/a	U
S09V001016		W	14762-75-5	Carbon-14	uCi/g	100	<6.97E-05	<8.23E-05	n/a	n/a	n/a	n/a	8.23E-05	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X2
Sample Depth: 133-135

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001016	W	10028-17-8	Tritium	uCi/g	95.5	<3.35E-04	<2.87E-04	n/a	n/a	n/a	n/a	2.87E-04	n/a	U
S09V001021	A	7429-90-5	Aluminum	ug/g	90.2	<0.0300	6.37E+03	n/a	n/a	n/a	n/a	5.49	n/a	
S09V001021	A	7440-39-3	Barium	ug/g	96.3	<3.00E-03	67.1	n/a	n/a	n/a	n/a	0.549	n/a	
S09V001021	A	7440-41-7	Beryllium	ug/g	96.2	<1.00E-03	0.209	n/a	n/a	n/a	n/a	0.183	n/a	J
S09V001021	A	7440-70-2	Calcium	ug/g	91.1	0.217	7.47E+03	n/a	n/a	n/a	n/a	9.15	n/a	
S09V001021	A	7440-45-1	Cerium	ug/g	98.9	<0.0300	24.1	n/a	n/a	n/a	n/a	5.49	n/a	J
S09V001021	A	7440-48-4	Cobalt	ug/g	93.4	<0.0100	4.59	n/a	n/a	n/a	n/a	1.83	n/a	J
S09V001021	A	7440-47-3	Chromium	ug/g	92.7	<5.00E-03	16.6	n/a	n/a	n/a	n/a	0.915	n/a	
S09V001021	A	7440-50-8	Copper	ug/g	95.1	<5.00E-03	11.7	n/a	n/a	n/a	n/a	0.915	n/a	
S09V001021	A	7440-53-1	Europium	ug/g	93.1	<5.00E-03	1.33	n/a	n/a	n/a	n/a	0.915	n/a	J
S09V001021	A	7439-89-6	Iron	ug/g	91.6	<5.00E-03	1.53E+04	n/a	n/a	n/a	n/a	0.915	n/a	
S09V001021	A	7440-09-7	Potassium	ug/g	105	<0.500	1.33E+03	n/a	n/a	n/a	n/a	91.5	n/a	b
S09V001021	A	7439-91-0	Lanthanum	ug/g	96.7	<3.00E-03	9.97	n/a	n/a	n/a	n/a	0.549	n/a	
S09V001021	A	7439-93-2	Lithium	ug/g	98.5	<3.00E-03	9.19	n/a	n/a	n/a	n/a	0.549	n/a	
S09V001021	A	7439-95-4	Magnesium	ug/g	90.1	<0.0500	4.09E+03	n/a	n/a	n/a	n/a	9.15	n/a	b
S09V001021	A	7439-96-5	Manganese	ug/g	90.6	<3.00E-03	221	n/a	n/a	n/a	n/a	0.549	n/a	
S09V001021	A	7439-98-7	Molybdenum	ug/g	92.8	<0.0200	<3.66	n/a	n/a	n/a	n/a	3.66	n/a	U
S09V001021	A	7440-23-5	Sodium	ug/g	98.1	<0.100	293	n/a	n/a	n/a	n/a	18.3	n/a	b
S09V001021	A	7440-00-8	Neodymium	ug/g	99.0	<0.0100	19.3	n/a	n/a	n/a	n/a	1.83	n/a	
S09V001021	A	7723-14-0	Phosphorus	ug/g	93.0	<0.0500	479	n/a	n/a	n/a	n/a	9.15	n/a	
S09V001021	A	7704-34-9	Sulfur	ug/g	91.6	<0.100	61.1	n/a	n/a	n/a	n/a	18.3	n/a	Jc
S09V001021	A	7440-21-3	Silicon	ug/g	50.6	<0.0300	669	n/a	n/a	n/a	n/a	5.49	n/a	a
S09V001021	A	7440-24-6	Strontium	ug/g	95.1	<3.00E-03	30.7	n/a	n/a	n/a	n/a	0.549	n/a	
S09V001021	A	7440-32-6	Titanium	ug/g	92.6	<5.00E-03	1.07E+03	n/a	n/a	n/a	n/a	0.915	n/a	
S09V001021	A	7440-61-1	Uranium	ug/g	101	<0.100	<18.3	n/a	n/a	n/a	n/a	18.3	n/a	U
S09V001021	A	7440-33-7	Tungsten	ug/g	90.4	<0.200	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S09V001021	A	7440-65-5	Yttrium	ug/g	91.0	<2.00E-03	6.84	n/a	n/a	n/a	n/a	0.366	n/a	
S09V001021	A	7440-66-6	Zinc	ug/g	89.7	7.01E-03	28.8	n/a	n/a	n/a	n/a	0.915	n/a	

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E - Outside Calibration Range

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X2
Sample Depth: 133-135

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001021	A	7440-67-7	Zirconium	ug/g	92.3	<5.00E-03	10.0	n/a	n/a	n/a	n/a	0.915	n/a	
S09V001021	A	7440-22-4	Silver	ug/g	89.4	<1.60E-04	0.0580	n/a	n/a	n/a	n/a	0.0293	n/a	J
S09V001021	A	7440-38-2	Arsenic	ug/g	101	<8.40E-04	2.21	n/a	n/a	n/a	n/a	0.154	n/a	
S09V001021	A	7440-43-9	Cadmium	ug/g	99.6	<6.00E-05	0.0588	n/a	n/a	n/a	n/a	0.0110	n/a	J
S09V001021	A	7439-92-1	Lead	ug/g	111	<6.20E-04	4.19	n/a	n/a	n/a	n/a	0.114	n/a	
S09V001021	A	7440-36-0	Antimony	ug/g	104	<8.80E-04	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V001021	A	7782-49-2	Selenium	ug/g	114	3.02E-03	<0.223	n/a	n/a	n/a	n/a	0.223	n/a	U
S09V001021	A	7440-28-0	Thallium	ug/g	110	<6.00E-05	0.0735	n/a	n/a	n/a	n/a	0.0110	n/a	J
S09V001021	A	7440-62-2	Vanadium	ug/g	103	<4.80E-04	38.9	n/a	n/a	n/a	n/a	0.879	n/a	
S09V001021	A	7440-02-0	Nickel	ug/g	105	2.96E-04	8.92	n/a	n/a	n/a	n/a	0.439	n/a	
S09V001026	S	14798-03-9	Ammonium	ug/g	99.4	<0.0120	0.784	n/a	n/a	n/a	n/a	0.475	n/a	
S09V001031	A	14133-76-7	Technetium-99	ug/g	106	1.13E-05	3.15E-03	n/a	n/a	n/a	n/a	1.13E-03	n/a	BJ
S09V001031	A	SN-117	Tin-117	ug/g	111	<2.20E-04	<0.0414	n/a	n/a	n/a	n/a	0.0414	n/a	U
S09V001031	A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.53E-04	n/a	n/a	n/a	n/a	7.53E-04	n/a	U
S09V001036	E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.15E-07	<3.51E-07	n/a	n/a	n/a	n/a	3.51E-07	n/a	U
S09V001036	E	14596-10-2	Americium-241	uCi/g	107	<1.04E-06	<8.76E-07	n/a	n/a	n/a	n/a	8.76E-07	n/a	U
S09V001036	E	15510-73-3	Curium-242	uCi/g	n/a	<4.15E-07	<3.51E-07	n/a	n/a	n/a	n/a	3.51E-07	n/a	U
S09V001036	E	13981-37-8	Nickel-63	uCi/g	103	<5.84E-05	<5.36E-05	n/a	n/a	n/a	n/a	5.36E-05	n/a	U
S09V001036	E	PU-239/240	Plutonium-239/240	uCi/g	92.2	<1.20E-06	<6.77E-07	n/a	n/a	n/a	n/a	6.77E-07	n/a	U
S09V001036	E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.20E-06	<6.77E-07	n/a	n/a	n/a	n/a	6.77E-07	n/a	U
S09V001036	E	15758-45-9	Selenium-79	uCi/g	n/a	<2.70E-06	1.66E-06	n/a	n/a	n/a	n/a	1.32E-06	318.61	J
S09V001036	E	SR-89/90	Strontium-89/90	uCi/g	98.2	<2.60E-06	<3.06E-06	n/a	n/a	n/a	n/a	3.06E-06	n/a	U
S09V001329	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	3.41E-05	n/a	n/a	n/a	n/a	2.55E-05	n/a	J
S09V001329	A	TH-232	Thorium-232	ug/g	102	4.00E-06	2.77	n/a	n/a	n/a	n/a	6.20E-04	n/a	
S09V001329	A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.05E-04	n/a	n/a	n/a	n/a	3.65E-05	n/a	J
S09V001329	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	2.90E-05	n/a	n/a	n/a	n/a	1.82E-05	n/a	J
S09V001329	A	15117-96-1	Uranium-235	ug/g	95.7	<2.20E-07	3.25E-03	n/a	n/a	n/a	n/a	4.01E-05	n/a	
S09V001329	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.46E-05	n/a	n/a	n/a	n/a	1.46E-05	n/a	U

NA = Not Analyzed, ND = Not Detected

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c - RPD Outside Range
E - Outside Calibration Range
U - Less Than Detection Limit
a - LCS Outside Range
B - Found in Blank
f - MS failed/SERDIL OK
e - SERDIL Outside Range
b - MS/MSD Outside Range

C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X2
Sample Depth: 133-135

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001329		A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	<1.93E-04	n/a	n/a	n/a	n/a	1.93E-04	n/a	U
S09V001329		A	U-238	Uranium-238	ug/g	103	<1.10E-05	0.465	n/a	n/a	n/a	n/a	2.01E-03	n/a	
S09V001363		W	16984-48-8	Fluoride	ug/g	100	<1.61E-03	1.28	n/a	n/a	n/a	n/a	0.0200	n/a	c
S09V001363		W	666-14-8	Glycolate	ug/g	103	<9.37E-03	<0.116	n/a	n/a	n/a	n/a	0.116	n/a	U
S09V001363		W	71-50-1	Acetate	ug/g	106	<6.04E-03	0.423	n/a	n/a	n/a	n/a	0.0750	n/a	J
S09V001363		W	12311-97-6	Formate	ug/g	104	<4.67E-03	0.296	n/a	n/a	n/a	n/a	0.0580	n/a	J
S09V001363		W	16887-00-6	Chloride	ug/g	99.9	<9.98E-03	1.83	n/a	n/a	n/a	n/a	0.124	n/a	
S09V001363		W	14797-65-0	Nitrite	ug/g	105	0.0582	4.71	n/a	n/a	n/a	n/a	0.238	n/a	B
S09V001363		W	14808-79-8	Sulfate	ug/g	103	0.0297	57.2	n/a	n/a	n/a	n/a	0.232	n/a	
S09V001363		W	338-70-5	Oxalate	ug/g	102	<0.0231	0.695	n/a	n/a	n/a	n/a	0.287	n/a	J
S09V001363		W	24959-67-9	Bromide	ug/g	98.0	<0.0580	<0.720	n/a	n/a	n/a	n/a	0.720	n/a	U
S09V001363		W	14797-55-8	Nitrate	ug/g	100	0.0454	35.3	n/a	n/a	n/a	n/a	0.258	n/a	
S09V001363		W	14265-44-2	Phosphate	ug/g	102	<0.0167	<0.207	n/a	n/a	n/a	n/a	0.207	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X4
Sample Depth: 133-135

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000971			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.125	n/a	n/a	n/a	n/a	0.125	n/a	U
S09V000971			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.238	n/a	n/a	n/a	n/a	0.238	n/a	U
S09V000971			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.312	n/a	n/a	n/a	n/a	0.312	n/a	U
S09V000971			75-35-4	1,1-Dichloroethene	ug/kg	94.4	<0.340	<0.212	n/a	n/a	n/a	n/a	0.212	n/a	U
S09V000971			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.112	n/a	n/a	n/a	n/a	0.112	n/a	U
S09V000971			71-36-3	1-Butanol	ug/kg	95.0	<15.5	<9.71	n/a	n/a	n/a	n/a	9.71	n/a	U
S09V000971			108-10-1	Hexone	ug/kg	112	<1.76	<1.10	n/a	n/a	n/a	n/a	1.10	n/a	U
S09V000971			67-64-1	Acetone	ug/kg	103	<4.38	<2.74	n/a	n/a	n/a	n/a	2.74	n/a	U
S09V000971			71-43-2	Benzene	ug/kg	101	<0.320	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000971			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V000971			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V000971			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.112	n/a	n/a	n/a	n/a	0.112	n/a	U
S09V000971			108-90-7	Chlorobenzene	ug/kg	97.2	<0.220	<0.138	n/a	n/a	n/a	n/a	0.138	n/a	U
S09V000971			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S09V000971			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.388	n/a	n/a	n/a	n/a	0.388	n/a	U
S09V000971			78-93-3	2-Butanone	ug/kg	107	<2.66	<1.66	n/a	n/a	n/a	n/a	1.66	n/a	U
S09V000971			75-09-2	Methylenechloride	ug/kg	n/a	0.388	<0.212	n/a	n/a	n/a	n/a	0.212	n/a	U
S09V000971			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000971			100-42-5	Styrene	ug/kg	n/a	<0.200	0.443	n/a	n/a	n/a	n/a	0.125	n/a	J
S09V000971			108-88-3	Toluene	ug/kg	102	<0.240	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S09V000971			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.0875	n/a	n/a	n/a	n/a	0.0875	n/a	U
S09V000971			79-01-6	Trichloroethene	ug/kg	99.9	<0.300	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V000971			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.400	n/a	n/a	n/a	n/a	0.400	n/a	U
S09V000971			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.162	n/a	n/a	n/a	n/a	0.162	n/a	U
S09V000971			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.225	n/a	n/a	n/a	n/a	0.225	n/a	U
S09V000971			110-54-3	Hexane	ug/kg	n/a	<0.440	1.62	n/a	n/a	n/a	n/a	0.275	n/a	J
S09V000971			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.312	n/a	n/a	n/a	n/a	0.312	n/a	U
S09V000971			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<0.986	n/a	n/a	n/a	n/a	0.986	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X4
Sample Depth: 133-135

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000971			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.608	n/a	n/a	n/a	n/a	0.608	n/a	U
S09V000971			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.553	n/a	n/a	n/a	n/a	0.553	n/a	U
S09V000971			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.21	n/a	n/a	n/a	n/a	1.21	n/a	U
S09V000971			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.125	n/a	n/a	n/a	n/a	0.125	n/a	U
S09V000971			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.262	n/a	n/a	n/a	n/a	0.262	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X9
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000853			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V000853			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.302	n/a	n/a	n/a	n/a	0.302	n/a	U
S09V000853			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.397	n/a	n/a	n/a	n/a	0.397	n/a	U
S09V000853			75-35-4	1,1-Dichloroethene	ug/kg	106	<0.340	<0.270	n/a	n/a	n/a	n/a	0.270	n/a	U
S09V000853			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.143	n/a	n/a	n/a	n/a	0.143	n/a	U
S09V000853			71-36-3	1-Butanol	ug/kg	92.1	<15.5	<12.3	n/a	n/a	n/a	n/a	12.3	n/a	U
S09V000853			108-10-1	Hexone	ug/kg	124	<1.76	<1.40	n/a	n/a	n/a	n/a	1.40	n/a	U
S09V000853			67-64-1	Acetone	ug/kg	111	<4.38	<3.48	n/a	n/a	n/a	n/a	3.48	n/a	U
S09V000853			71-43-2	Benzene	ug/kg	107	<0.320	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000853			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.238	n/a	n/a	n/a	n/a	0.238	n/a	U
S09V000853			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.238	n/a	n/a	n/a	n/a	0.238	n/a	U
S09V000853			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.143	n/a	n/a	n/a	n/a	0.143	n/a	U
S09V000853			108-90-7	Chlorobenzene	ug/kg	109	<0.220	<0.175	n/a	n/a	n/a	n/a	0.175	n/a	U
S09V000853			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.190	n/a	n/a	n/a	n/a	0.190	n/a	U
S09V000853			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.492	n/a	n/a	n/a	n/a	0.492	n/a	U
S09V000853			78-93-3	2-Butanone	ug/kg	115	<2.66	<2.11	n/a	n/a	n/a	n/a	2.11	n/a	U
S09V000853			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.270	n/a	n/a	n/a	n/a	0.270	n/a	U
S09V000853			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.317	n/a	n/a	n/a	n/a	0.317	n/a	U
S09V000853			108-88-3	Toluene	ug/kg	113	<0.240	<0.190	n/a	n/a	n/a	n/a	0.190	n/a	U
S09V000853			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000853			79-01-6	Trichloroethene	ug/kg	106	<0.300	<0.238	n/a	n/a	n/a	n/a	0.238	n/a	U
S09V000853			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.508	n/a	n/a	n/a	n/a	0.508	n/a	U
S09V000853			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.206	n/a	n/a	n/a	n/a	0.206	n/a	U
S09V000853			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.286	n/a	n/a	n/a	n/a	0.286	n/a	U
S09V000853			110-54-3	Hexane	ug/kg	n/a	<0.440	20.2	n/a	n/a	n/a	n/a	0.349	n/a	
S09V000853			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.397	n/a	n/a	n/a	n/a	0.397	n/a	U
S09V000853			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.25	n/a	n/a	n/a	n/a	1.25	n/a	U
S09V000853			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.771	n/a	n/a	n/a	n/a	0.771	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X9
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000853			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.702	n/a	n/a	n/a	n/a	0.702	n/a	U
S09V000853			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.54	n/a	n/a	n/a	n/a	1.54	n/a	U
S09V000853			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V000853			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.333	n/a	n/a	n/a	n/a	0.333	n/a	U

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U - Less Than Detection Limit
a - LCS Outside Range
B - Found in Blank
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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211Y0
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000866			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.0990	n/a	n/a	n/a	n/a	0.0990	n/a	U
S09V000866			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V000866			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.248	n/a	n/a	n/a	n/a	0.248	n/a	U
S09V000866			75-35-4	1,1-Dichloroethene	ug/kg	106	<0.340	<0.168	n/a	n/a	n/a	n/a	0.168	n/a	U
S09V000866			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.0891	n/a	n/a	n/a	n/a	0.0891	n/a	U
S09V000866			71-36-3	1-Butanol	ug/kg	92.1	<15.5	<7.69	n/a	n/a	n/a	n/a	7.69	n/a	U
S09V000866			108-10-1	Hexone	ug/kg	124	<1.76	<0.871	n/a	n/a	n/a	n/a	0.871	n/a	U
S09V000866			67-64-1	Acetone	ug/kg	111	<4.38	<2.17	n/a	n/a	n/a	n/a	2.17	n/a	U
S09V000866			71-43-2	Benzene	ug/kg	107	<0.320	<0.158	n/a	n/a	n/a	n/a	0.158	n/a	U
S09V000866			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V000866			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V000866			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.0891	n/a	n/a	n/a	n/a	0.0891	n/a	U
S09V000866			108-90-7	Chlorobenzene	ug/kg	109	<0.220	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S09V000866			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U
S09V000866			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.307	n/a	n/a	n/a	n/a	0.307	n/a	U
S09V000866			78-93-3	2-Butanone	ug/kg	115	<2.66	<1.32	n/a	n/a	n/a	n/a	1.32	n/a	U
S09V000866			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.168	n/a	n/a	n/a	n/a	0.168	n/a	U
S09V000866			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.198	n/a	n/a	n/a	n/a	0.198	n/a	U
S09V000866			108-88-3	Toluene	ug/kg	113	<0.240	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U
S09V000866			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.0693	n/a	n/a	n/a	n/a	0.0693	n/a	U
S09V000866			79-01-6	Trichloroethene	ug/kg	106	<0.300	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V000866			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.317	n/a	n/a	n/a	n/a	0.317	n/a	U
S09V000866			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.129	n/a	n/a	n/a	n/a	0.129	n/a	U
S09V000866			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S09V000866			110-54-3	Hexane	ug/kg	n/a	<0.440	8.42	n/a	n/a	n/a	n/a	0.218	n/a	
S09V000866			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.248	n/a	n/a	n/a	n/a	0.248	n/a	U
S09V000866			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<0.781	n/a	n/a	n/a	n/a	0.781	n/a	U
S09V000866			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.481	n/a	n/a	n/a	n/a	0.481	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211Y0
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000866			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.438	n/a	n/a	n/a	n/a	0.438	n/a	U
S09V000866			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<0.960	n/a	n/a	n/a	n/a	0.960	n/a	U
S09V000866			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.0990	n/a	n/a	n/a	n/a	0.0990	n/a	U
S09V000866			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.208	n/a	n/a	n/a	n/a	0.208	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K8
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000856			%WATERA	%WATER-APD	%	n/a	n/a	2.603	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V000856			57-12-5	Cyanide	ug/g	107	<0.0370	<4.80	<4.56	n/a	n/a	111	4.80	n/a	U
S09V000856			7439-97-6	Mercury	ug/g	104	<1.00E-04	<0.0406	n/a	n/a	n/a	106	0.0406	n/a	U
S09V000856			PH	pH	unitless	n/a	n/a	8.88	8.87	8.88	0.113	n/a	0.0100	n/a	
S09V000856			18496-25-8	Sulfide	ug/g	93.6	<0.180	19.6	n/a	n/a	n/a	n/a	6.28	n/a	J
S09V000858			13966-00-2	Potassium-40	uCi/g	n/a	<4.45E-06	1.30E-05	n/a	n/a	n/a	n/a	4.09E-06	21.06	
S09V000858			10198-40-0	Cobalt-60	uCi/g	101	<1.71E-07	<1.75E-07	n/a	n/a	n/a	n/a	1.75E-07	n/a	U
S09V000858			14234-35-6	Antimony-125	uCi/g	n/a	<4.00E-07	<4.64E-07	n/a	n/a	n/a	n/a	4.64E-07	n/a	U
S09V000858			10045-97-3	Cesium-137	uCi/g	108	<1.92E-07	<1.81E-07	n/a	n/a	n/a	n/a	1.81E-07	n/a	U
S09V000858			14683-23-9	Europium-152	uCi/g	n/a	<8.14E-07	<9.05E-07	n/a	n/a	n/a	n/a	9.05E-07	n/a	U
S09V000858			15585-10-1	Europium-154	uCi/g	n/a	<5.13E-07	<5.62E-07	n/a	n/a	n/a	n/a	5.62E-07	n/a	U
S09V000858			14391-16-3	Europium-155	uCi/g	n/a	<3.07E-07	<3.71E-07	n/a	n/a	n/a	n/a	3.71E-07	n/a	U
S09V000858			15092-94-1	Lead-212	uCi/g	n/a	<2.32E-07	4.76E-07	n/a	n/a	n/a	n/a	2.56E-07	34.99	J
S09V000858			14733-03-0	Bismuth-214	uCi/g	n/a	<3.67E-07	6.71E-07	n/a	n/a	n/a	n/a	3.91E-07	34.67	J
S09V000858			14274-82-9	Thorium-228	uCi/g	n/a	<8.06E-06	<9.38E-06	n/a	n/a	n/a	n/a	9.38E-06	n/a	U
S09V000858			15065-10-8	Thorium-234	uCi/g	n/a	<6.34E-06	<7.98E-06	n/a	n/a	n/a	n/a	7.98E-06	n/a	U
S09V000858			15046-84-1	Iodine-129	uCi/g	95.2	<1.40E-07	<1.34E-07	n/a	n/a	n/a	n/a	1.34E-07	n/a	U
S09V000859		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	78.8	<77.4	<76.2	n/a	n/a	n/a	71.5	76.2	n/a	U
S09V000859		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.1	n/a	n/a	n/a	n/a	99.1	n/a	U
S09V000859		O	106-46-7	1,4-Dichlorobenzene	ug/kg	78.3	<113	<112	n/a	n/a	n/a	68.4	112	n/a	U
S09V000859		O	121-14-2	2,4-Dinitrotoluene	ug/kg	83.8	<38.1	<37.5	n/a	n/a	n/a	77.0	37.5	n/a	U
S09V000859		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.3	n/a	n/a	n/a	n/a	43.3	n/a	U
S09V000859		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S09V000859		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S09V000859		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.9	n/a	n/a	n/a	n/a	52.9	n/a	U
S09V000859		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S09V000859		O	83-32-9	Acenaphthene	ug/kg	82.9	<17.6	<17.3	n/a	n/a	n/a	77.3	17.3	n/a	U
S09V000859		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K8
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000859		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U
S09V000859		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.6	n/a	n/a	n/a	n/a	40.6	n/a	U
S09V000859		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<581	n/a	n/a	n/a	n/a	581	n/a	U
S09V000859		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.5	n/a	n/a	n/a	n/a	38.5	n/a	U
S09V000859		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S09V000859		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	76.6	<43.2	<42.5	n/a	n/a	n/a	73.4	42.5	n/a	U
S09V000859		O	95-57-8	2-Chlorophenol	ug/kg	78.6	<66.5	<65.5	n/a	n/a	n/a	73.3	65.5	n/a	U
S09V000859		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.1	n/a	n/a	n/a	n/a	80.1	n/a	U
S09V000859		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.3	n/a	n/a	n/a	n/a	50.3	n/a	U
S09V000859		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<554	n/a	n/a	n/a	n/a	554	n/a	U
S09V000859		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.0	n/a	n/a	n/a	n/a	47.0	n/a	U
S09V000859		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	72.7	<58.1	<57.2	n/a	n/a	n/a	67.3	57.2	n/a	U
S09V000859		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.9	n/a	n/a	n/a	n/a	34.9	n/a	U
S09V000859		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.6	n/a	n/a	n/a	n/a	68.6	n/a	U
S09V000859		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V000859		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S09V000859		O	108-95-2	Phenol	ug/kg	80.0	<59.4	<58.5	n/a	n/a	n/a	73.6	58.5	n/a	U
S09V000859		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.6	n/a	n/a	n/a	n/a	61.6	n/a	U
S09V000859		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.6	n/a	n/a	n/a	n/a	63.6	n/a	U
S09V000859		O	100-02-7	4-Nitrophenol	ug/kg	86.1	<52.6	<51.8	n/a	n/a	n/a	84.0	51.8	n/a	U
S09V000859		O	87-86-5	Pentachlorophenol	ug/kg	87.4	<37.5	<36.9	n/a	n/a	n/a	81.5	36.9	n/a	U
S09V000859		O	129-00-0	Pyrene	ug/kg	89.3	<62.9	<61.9	n/a	n/a	n/a	81.8	61.9	n/a	U
S09V000859		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.0	n/a	n/a	n/a	n/a	64.0	n/a	U
S09V000859		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V000859		O	128-37-0	BHT	ug/kg	n/a	<236	<232	n/a	n/a	n/a	n/a	232	n/a	U
S09V000859		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S09V000859		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V000859		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<550	n/a	n/a	n/a	n/a	550	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K8
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000859		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<188	n/a	n/a	n/a	n/a	188	n/a	U
S09V000859		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<453	n/a	n/a	n/a	n/a	453	n/a	U
S09V000860		W	14762-75-5	Carbon-14	uCi/g	81.5	<4.96E-05	4.37E-05	<4.40E-05	n/a	n/a	96.3	4.36E-05	99.3	J
S09V000860		W	10028-17-8	Tritium	uCi/g	95.1	<2.65E-04	<2.63E-04	<4.46E-04	n/a	n/a	98.5	2.63E-04	n/a	U
S09V000862		S	14798-03-9	Ammonium	ug/g	93.2	<0.0120	1.27	1.86	1.57	37.4	95.1	0.478	n/a	J
S09V000863		A	14133-76-7	Technetium-99	ug/g	105	9.11E-06	1.26E-03	1.21E-03	1.23E-03	4.31	96.8	1.19E-03	n/a	BJ
S09V000863		A	SN-117	Tin-117	ug/g	98.1	<2.20E-04	<0.0436	<0.0423	n/a	n/a	87.3	0.0436	n/a	U
S09V000863		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.93E-04	<7.70E-04	n/a	n/a	n/a	7.93E-04	n/a	U
S09V000864		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.15E-07	<3.60E-07	n/a	n/a	n/a	n/a	3.60E-07	n/a	U
S09V000864		E	14596-10-2	Americium-241	uCi/g	107	<1.04E-06	<8.99E-07	n/a	n/a	n/a	n/a	8.99E-07	n/a	U
S09V000864		E	15510-73-3	Curium-242	uCi/g	n/a	<4.15E-07	<3.60E-07	n/a	n/a	n/a	n/a	3.60E-07	n/a	U
S09V000864		E	13981-37-8	Nickel-63	uCi/g	95.2	<5.84E-05	<5.17E-05	n/a	n/a	n/a	n/a	5.17E-05	n/a	U
S09V000864		E	PU-239/240	Plutonium-239/240	uCi/g	92.2	<1.20E-06	<5.83E-07	n/a	n/a	n/a	n/a	5.83E-07	n/a	U
S09V000864		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.20E-06	<5.83E-07	n/a	n/a	n/a	n/a	5.83E-07	n/a	U
S09V000864		E	15758-45-9	Selenium-79	uCi/g	n/a	<2.70E-06	<1.54E-06	n/a	n/a	n/a	n/a	1.54E-06	n/a	U
S09V000864		E	SR-89/90	Strontium-89/90	uCi/g	98.2	<2.60E-06	<1.83E-06	n/a	n/a	n/a	n/a	1.83E-06	n/a	U
S09V001320		A	7429-90-5	Aluminum	ug/g	83.9	<0.0300	5.66E+03	7.23E+03	6.45E+03	24.3	868	5.95	n/a	
S09V001320		A	7440-39-3	Barium	ug/g	84.2	<3.00E-03	62.2	165	114	90.6	107	0.595	n/a	c
S09V001320		A	7440-41-7	Beryllium	ug/g	86.1	<1.00E-03	<0.198	<0.199	n/a	n/a	98.1	0.198	n/a	U
S09V001320		A	7440-70-2	Calcium	ug/g	81.3	<0.0500	7.10E+03	8.19E+03	7.64E+03	14.3	457	9.92	n/a	e
S09V001320		A	7440-45-1	Cerium	ug/g	89.4	<0.0300	25.0	34.0	29.5	30.5	96.4	5.95	n/a	J
S09V001320		A	7440-48-4	Cobalt	ug/g	81.3	<0.0100	8.37	10.6	9.50	23.8	93.5	1.98	n/a	J
S09V001320		A	7440-47-3	Chromium	ug/g	83.4	<5.00E-03	6.96	13.7	10.3	65.4	95.0	0.992	n/a	c
S09V001320		A	7440-50-8	Copper	ug/g	82.9	<5.00E-03	8.76	13.3	11.0	41.1	101	0.992	n/a	J
S09V001320		A	7440-53-1	Europium	ug/g	98.7	<5.00E-03	1.35	2.20	1.77	48.3	94.6	0.992	n/a	J
S09V001320		A	7439-89-6	Iron	ug/g	83.1	<5.00E-03	2.01E+04	2.60E+04	2.30E+04	25.3	814	0.992	n/a	
S09V001320		A	7440-09-7	Potassium	ug/g	86.9	<0.500	9.54E+02	1.99E+03	1.47E+03	70.3	216	99.2	n/a	Jb
S09V001320		A	7439-91-0	Lanthanum	ug/g	83.8	<3.00E-03	10.3	15.4	12.8	40.3	99.0	0.595	n/a	c

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K8
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001320		A	7439-93-2	Lithium	ug/g	98.9	<3.00E-03	5.60	10.9	8.23	63.9	107	0.595	n/a	J
S09V001320		A	7439-95-4	Magnesium	ug/g	99.2	<0.0500	4.05E+03	6.90E+03	5.48E+03	52.0	311	9.92	n/a	c
S09V001320		A	7439-96-5	Manganese	ug/g	81.2	<3.00E-03	284	379	332	28.4	114	0.595	n/a	
S09V001320		A	7439-98-7	Molybdenum	ug/g	84.7	<0.0200	<3.97	<3.98	n/a	n/a	95.9	3.97	n/a	U
S09V001320		A	7440-23-5	Sodium	ug/g	96.4	<0.100	179	294	237	48.5	197	19.8	n/a	Jb
S09V001320		A	7440-00-8	Neodymium	ug/g	91.6	<0.0100	24.1	34.0	29.0	33.9	99.9	1.98	n/a	c
S09V001320		A	7723-14-0	Phosphorus	ug/g	87.3	<0.0500	835	954	894	13.3	111	9.92	n/a	
S09V001320		A	7704-34-9	Sulfur	ug/g	87.7	<0.100	63.6	77.2	70.4	19.2	103	19.8	n/a	J
S09V001320		A	7440-21-3	Silicon	ug/g	72.2	<0.0300	465	561	513	18.8	160	5.95	n/a	abe
S09V001320		A	7440-19-9	Samarium	ug/g	89.2	<0.0200	4.96	<3.98	n/a	n/a	96.7	3.97	n/a	J
S09V001320		A	7440-24-6	Strontium	ug/g	84.8	<3.00E-03	26.2	33.4	29.8	24.2	102	0.595	n/a	
S09V001320		A	7440-32-6	Titanium	ug/g	85.5	<5.00E-03	1.71E+03	2.38E+03	2.05E+03	32.9	167	0.992	n/a	bc
S09V001320		A	7440-61-1	Uranium	ug/g	95.9	<0.100	<19.8	<19.9	n/a	n/a	105	19.8	n/a	U
S09V001320		A	7440-33-7	Tungsten	ug/g	84.8	<0.200	42.1	<39.8	n/a	n/a	64.1	39.7	n/a	Jb
S09V001320		A	7440-65-5	Yttrium	ug/g	86.6	<2.00E-03	9.03	12.6	10.8	33.3	92.1	0.397	n/a	c
S09V001320		A	7440-66-6	Zinc	ug/g	81.8	<5.00E-03	34.3	41.2	37.7	18.4	95.0	0.992	n/a	
S09V001320		A	7440-67-7	Zirconium	ug/g	82.5	<5.00E-03	17.9	24.9	21.4	32.8	95.3	0.992	n/a	c
S09V001320		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.78E-05	<2.78E-05	n/a	n/a	n/a	2.78E-05	n/a	U
S09V001320		A	TH-232	Thorium-232	ug/g	98.8	5.67E-06	2.60	4.01	3.31	42.6	107	6.75E-04	n/a	c
S09V001320		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	7.26E-05	8.21E-05	7.74E-05	12.3	n/a	3.97E-05	n/a	J
S09V001320		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	4.60E-05	2.72E-05	3.66E-05	51.3	n/a	1.98E-05	n/a	J
S09V001320		A	15117-96-1	Uranium-235	ug/g	91.4	<2.20E-07	2.70E-03	3.96E-03	3.33E-03	37.6	96.8	4.37E-05	n/a	c
S09V001320		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.59E-05	<1.59E-05	n/a	n/a	n/a	1.59E-05	n/a	U
S09V001320		A	13994-20-2	Neptunium-237	ug/g	109	<1.06E-06	<2.10E-04	<2.11E-04	n/a	n/a	111	2.10E-04	n/a	U
S09V001320		A	U-238	Uranium-238	ug/g	100	<1.10E-05	0.400	0.563	0.481	34.0	103	2.18E-03	n/a	c
S09V001320		A	7440-22-4	Silver	ug/g	107	<1.60E-04	0.0846	0.114	0.0992	29.5	113	0.0317	n/a	J
S09V001320		A	7440-38-2	Arsenic	ug/g	107	<8.40E-04	3.30	3.70	3.50	11.3	118	0.167	n/a	
S09V001320		A	7440-43-9	Cadmium	ug/g	106	<6.00E-05	0.0756	0.0997	0.0877	27.5	110	0.0119	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K8
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001320		A	7439-92-1	Lead	ug/g	110	<6.20E-04	4.48	6.34	5.41	34.5	116	0.123	n/a	c
S09V001320		A	7440-36-0	Antimony	ug/g	105	<8.80E-04	<0.175	<0.175	n/a	n/a	94.4	0.175	n/a	U
S09V001320		A	7782-49-2	Selenium	ug/g	104	1.29E-03	<0.242	<0.243	n/a	n/a	104	0.242	n/a	U
S09V001320		A	7440-28-0	Thallium	ug/g	115	1.13E-04	0.0834	0.144	0.114	53.2	110	0.0119	n/a	BJ
S09V001320		A	7440-62-2	Vanadium	ug/g	105	<4.80E-04	56.1	57.7	56.9	2.78	117	0.952	n/a	
S09V001320		A	7440-02-0	Nickel	ug/g	109	<2.40E-04	9.42	9.99	9.70	5.89	116	0.476	n/a	
S09V001354		W	16984-48-8	Fluoride	ug/g	99.0	<0.0805	0.567	0.740	0.654	26.6	103	0.0195	n/a	
S09V001354		W	666-14-8	Glycolate	ug/g	101	<0.468	<0.114	<0.113	n/a	n/a	104	0.114	n/a	U
S09V001354		W	71-50-1	Acetate	ug/g	105	<0.302	0.192	0.489	0.341	87.2	108	0.0732	n/a	J
S09V001354		W	12311-97-6	Formate	ug/g	103	<0.234	0.222	0.497	0.359	76.4	106	0.0566	n/a	J
S09V001354		W	16887-00-6	Chloride	ug/g	98.5	<0.499	0.146	0.166	0.156	13.1	102	0.121	n/a	J
S09V001354		W	14797-65-0	Nitrite	ug/g	103	<0.960	1.93	5.89	3.91	101	106	0.233	n/a	J
S09V001354		W	14808-79-8	Sulfate	ug/g	102	<0.935	1.21	1.73	1.47	35.1	104	0.227	n/a	J
S09V001354		W	338-70-5	Oxalate	ug/g	100	<1.16	<0.280	0.325	n/a	n/a	103	0.280	n/a	U
S09V001354		W	24959-67-9	Bromide	ug/g	97.3	<2.90	<0.703	<0.700	n/a	n/a	100	0.703	n/a	U
S09V001354		W	14797-55-8	Nitrate	ug/g	99.4	<1.04	2.46	3.61	3.04	37.8	104	0.252	n/a	J
S09V001354		W	14265-44-2	Phosphate	ug/g	100	<0.835	1.59	1.92	1.75	18.6	104	0.202	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K9
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000869			%WATERA	%WATER-APD	%	n/a	n/a	2.101	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V000869			57-12-5	Cyanide	ug/g	107	<0.0370	<5.02	n/a	n/a	n/a	n/a	5.02	n/a	U
S09V000869			7439-97-6	Mercury	ug/g	104	<1.00E-04	<0.0416	n/a	n/a	n/a	n/a	0.0416	n/a	U
S09V000869			PH	pH	unitless	n/a	n/a	8.82	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000869			18496-25-8	Sulfide	ug/g	93.6	<0.180	27.2	n/a	n/a	n/a	n/a	6.48	n/a	J
S09V000871			13966-00-2	Potassium-40	uCi/g	n/a	<4.45E-06	1.37E-05	1.36E-05	1.36E-05	0.513	n/a	3.69E-06	18.54	
S09V000871			10198-40-0	Cobalt-60	uCi/g	101	<1.71E-07	<1.62E-07	<1.70E-07	n/a	n/a	n/a	1.62E-07	n/a	U
S09V000871			14234-35-6	Antimony-125	uCi/g	n/a	<4.00E-07	<4.58E-07	<4.53E-07	n/a	n/a	n/a	4.58E-07	n/a	U
S09V000871			10045-97-3	Cesium-137	uCi/g	108	<1.92E-07	2.46E-06	2.35E-06	2.40E-06	4.32	n/a	2.05E-07	9.05	
S09V000871			14683-23-9	Europium-152	uCi/g	n/a	<8.14E-07	<7.90E-07	<8.44E-07	n/a	n/a	n/a	7.90E-07	n/a	U
S09V000871			15585-10-1	Europium-154	uCi/g	n/a	<5.13E-07	<5.39E-07	<5.40E-07	n/a	n/a	n/a	5.39E-07	n/a	U
S09V000871			14391-16-3	Europium-155	uCi/g	n/a	<3.07E-07	<3.39E-07	<3.31E-07	n/a	n/a	n/a	3.39E-07	n/a	U
S09V000871			15092-94-1	Lead-212	uCi/g	n/a	<2.32E-07	4.12E-07	4.62E-07	4.37E-07	11.5	n/a	2.86E-07	44.00	J
S09V000871			14733-03-0	Bismuth-214	uCi/g	n/a	<3.67E-07	4.36E-07	5.75E-07	5.06E-07	27.4	n/a	3.37E-07	46.55	J
S09V000871			15067-28-4	Lead-214	uCi/g	n/a	<3.36E-07	5.92E-07	7.30E-07	6.61E-07	20.9	n/a	3.74E-07	33.52	J
S09V000871			14331-83-0	Actinium-228	uCi/g	n/a	<6.67E-07	8.42E-07	<7.16E-07	n/a	n/a	n/a	6.87E-07	30.60	J
S09V000871			14274-82-9	Thorium-228	uCi/g	n/a	<8.06E-06	<8.58E-06	<8.57E-06	n/a	n/a	n/a	8.58E-06	n/a	U
S09V000871			15065-10-8	Thorium-234	uCi/g	n/a	<6.34E-06	<7.34E-06	<7.47E-06	n/a	n/a	n/a	7.34E-06	n/a	U
S09V000871			15046-84-1	Iodine-129	uCi/g	95.2	<1.40E-07	<1.46E-07	<1.29E-07	n/a	n/a	n/a	1.46E-07	n/a	U
S09V000872		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	78.8	<77.4	<73.7	n/a	n/a	n/a	n/a	73.7	n/a	U
S09V000872		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<95.9	n/a	n/a	n/a	n/a	95.9	n/a	U
S09V000872		O	106-46-7	1,4-Dichlorobenzene	ug/kg	78.3	<113	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V000872		O	121-14-2	2,4-Dinitrotoluene	ug/kg	83.8	<38.1	<36.3	n/a	n/a	n/a	n/a	36.3	n/a	U
S09V000872		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<41.9	n/a	n/a	n/a	n/a	41.9	n/a	U
S09V000872		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S09V000872		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<54.8	n/a	n/a	n/a	n/a	54.8	n/a	U
S09V000872		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S09V000872		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K9
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000872		O	83-32-9	Acenaphthene	ug/kg	82.9	<17.6	<16.8	n/a	n/a	n/a	n/a	16.8	n/a	U
S09V000872		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.0	n/a	n/a	n/a	n/a	36.0	n/a	U
S09V000872		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<46.6	n/a	n/a	n/a	n/a	46.6	n/a	U
S09V000872		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.3	n/a	n/a	n/a	n/a	39.3	n/a	U
S09V000872		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<562	n/a	n/a	n/a	n/a	562	n/a	U
S09V000872		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S09V000872		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	59.2	n/a	n/a	n/a	n/a	47.6	n/a	J
S09V000872		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	76.6	<43.2	<41.2	n/a	n/a	n/a	n/a	41.2	n/a	U
S09V000872		O	95-57-8	2-Chlorophenol	ug/kg	78.6	<66.5	<63.4	n/a	n/a	n/a	n/a	63.4	n/a	U
S09V000872		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<77.6	n/a	n/a	n/a	n/a	77.6	n/a	U
S09V000872		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S09V000872		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<536	n/a	n/a	n/a	n/a	536	n/a	U
S09V000872		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<45.4	n/a	n/a	n/a	n/a	45.4	n/a	U
S09V000872		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	72.7	<58.1	<55.4	n/a	n/a	n/a	n/a	55.4	n/a	U
S09V000872		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<33.7	n/a	n/a	n/a	n/a	33.7	n/a	U
S09V000872		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<66.4	n/a	n/a	n/a	n/a	66.4	n/a	U
S09V000872		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000872		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S09V000872		O	108-95-2	Phenol	ug/kg	80.0	<59.4	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S09V000872		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<59.6	n/a	n/a	n/a	n/a	59.6	n/a	U
S09V000872		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<61.5	n/a	n/a	n/a	n/a	61.5	n/a	U
S09V000872		O	100-02-7	4-Nitrophenol	ug/kg	86.1	<52.6	<50.1	n/a	n/a	n/a	n/a	50.1	n/a	U
S09V000872		O	87-86-5	Pentachlorophenol	ug/kg	87.4	<37.5	<35.7	n/a	n/a	n/a	n/a	35.7	n/a	U
S09V000872		O	129-00-0	Pyrene	ug/kg	89.3	<62.9	<59.9	n/a	n/a	n/a	n/a	59.9	n/a	U
S09V000872		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S09V000872		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<103	n/a	n/a	n/a	n/a	103	n/a	U
S09V000872		O	128-37-0	BHT	ug/kg	n/a	<236	<224	n/a	n/a	n/a	n/a	224	n/a	U
S09V000872		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<174	n/a	n/a	n/a	n/a	174	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K9
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000872		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<102	n/a	n/a	n/a	n/a	102	n/a	U
S09V000872		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<533	n/a	n/a	n/a	n/a	533	n/a	U
S09V000872		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<182	n/a	n/a	n/a	n/a	182	n/a	U
S09V000872		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<439	n/a	n/a	n/a	n/a	439	n/a	U
S09V000873		W	14762-75-5	Carbon-14	uCi/g	81.5	<4.96E-05	<4.35E-05	n/a	n/a	n/a	n/a	4.35E-05	n/a	U
S09V000873		W	10028-17-8	Tritium	uCi/g	95.1	<2.65E-04	<2.64E-04	n/a	n/a	n/a	n/a	2.64E-04	n/a	U
S09V000875		S	14798-03-9	Ammonium	ug/g	93.2	<0.0120	2.42	n/a	n/a	n/a	n/a	0.467	n/a	J
S09V000876		A	14133-76-7	Technetium-99	ug/g	105	9.11E-06	1.31E-03	n/a	n/a	n/a	n/a	1.14E-03	n/a	BJ
S09V000876		A	SN-117	Tin-117	ug/g	98.1	<2.20E-04	<0.0418	n/a	n/a	n/a	n/a	0.0418	n/a	U
S09V000876		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.60E-04	n/a	n/a	n/a	n/a	7.60E-04	n/a	U
S09V000877		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.15E-07	<3.71E-07	<3.71E-07	n/a	n/a	n/a	3.71E-07	n/a	U
S09V000877		E	14596-10-2	Americium-241	uCi/g	107	<1.04E-06	<9.28E-07	<9.28E-07	n/a	n/a	n/a	9.28E-07	n/a	U
S09V000877		E	15510-73-3	Curium-242	uCi/g	n/a	<4.15E-07	<3.71E-07	<3.71E-07	n/a	n/a	n/a	3.71E-07	n/a	U
S09V000877		E	13981-37-8	Nickel-63	uCi/g	95.2	<5.84E-05	<4.96E-05	<7.89E-05	n/a	n/a	n/a	4.96E-05	n/a	U
S09V000877		E	PU-239/240	Plutonium-239/240	uCi/g	92.2	<1.20E-06	<6.51E-07	<5.94E-07	n/a	n/a	n/a	6.51E-07	n/a	U
S09V000877		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.20E-06	<6.51E-07	<5.94E-07	n/a	n/a	n/a	6.51E-07	n/a	U
S09V000877		E	15758-45-9	Selenium-79	uCi/g	n/a	<2.70E-06	<2.52E-06	<2.44E-06	n/a	n/a	n/a	2.52E-06	n/a	U
S09V000877		E	SR-89/90	Strontium-89/90	uCi/g	98.2	<2.60E-06	4.01E-06	<2.16E-06	n/a	n/a	n/a	1.81E-06	73.23	J
S09V001321		A	7429-90-5	Aluminum	ug/g	83.9	<0.0300	7.07E+03	n/a	n/a	n/a	n/a	5.56	n/a	
S09V001321		A	7440-39-3	Barium	ug/g	84.2	<3.00E-03	84.7	n/a	n/a	n/a	n/a	0.556	n/a	c
S09V001321		A	7440-41-7	Beryllium	ug/g	86.1	<1.00E-03	<0.185	n/a	n/a	n/a	n/a	0.185	n/a	U
S09V001321		A	7440-70-2	Calcium	ug/g	81.3	<0.0500	7.43E+03	n/a	n/a	n/a	n/a	9.26	n/a	
S09V001321		A	7440-45-1	Cerium	ug/g	89.4	<0.0300	24.6	n/a	n/a	n/a	n/a	5.56	n/a	J
S09V001321		A	7440-48-4	Cobalt	ug/g	81.3	<0.0100	7.49	n/a	n/a	n/a	n/a	1.85	n/a	J
S09V001321		A	7440-47-3	Chromium	ug/g	83.4	<5.00E-03	7.96	n/a	n/a	n/a	n/a	0.926	n/a	c
S09V001321		A	7440-50-8	Copper	ug/g	82.9	<5.00E-03	11.2	n/a	n/a	n/a	n/a	0.926	n/a	
S09V001321		A	7440-53-1	Europium	ug/g	102	<5.00E-03	1.56	n/a	n/a	n/a	n/a	0.926	n/a	J
S09V001321		A	7439-89-6	Iron	ug/g	83.1	<5.00E-03	2.23E+04	n/a	n/a	n/a	n/a	0.926	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K9
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001321		A	7440-09-7	Potassium	ug/g	86.9	<0.500	1.10E+03	n/a	n/a	n/a	n/a	92.6	n/a	b
S09V001321		A	7439-91-0	Lanthanum	ug/g	83.8	<3.00E-03	12.4	n/a	n/a	n/a	n/a	0.556	n/a	c
S09V001321		A	7439-93-2	Lithium	ug/g	98.9	<3.00E-03	6.64	n/a	n/a	n/a	n/a	0.556	n/a	
S09V001321		A	7439-95-4	Magnesium	ug/g	99.2	<0.0500	4.44E+03	n/a	n/a	n/a	n/a	9.26	n/a	c
S09V001321		A	7439-96-5	Manganese	ug/g	81.2	<3.00E-03	393	n/a	n/a	n/a	n/a	0.556	n/a	
S09V001321		A	7439-98-7	Molybdenum	ug/g	84.7	<0.0200	<3.71	n/a	n/a	n/a	n/a	3.71	n/a	U
S09V001321		A	7440-23-5	Sodium	ug/g	96.4	<0.100	200	n/a	n/a	n/a	n/a	18.5	n/a	b
S09V001321		A	7440-00-8	Neodymium	ug/g	91.6	<0.0100	24.6	n/a	n/a	n/a	n/a	1.85	n/a	c
S09V001321		A	7723-14-0	Phosphorus	ug/g	87.3	<0.0500	923	n/a	n/a	n/a	n/a	9.26	n/a	
S09V001321		A	7440-10-0	Praseodymium	ug/g	108	<0.0100	4.94	n/a	n/a	n/a	n/a	1.85	n/a	J
S09V001321		A	7704-34-9	Sulfur	ug/g	87.7	<0.100	66.1	n/a	n/a	n/a	n/a	18.5	n/a	J
S09V001321		A	7440-21-3	Silicon	ug/g	72.2	<0.0300	357	n/a	n/a	n/a	n/a	5.56	n/a	ab
S09V001321		A	7440-19-9	Samarium	ug/g	89.2	<0.0200	5.05	n/a	n/a	n/a	n/a	3.71	n/a	J
S09V001321		A	7440-24-6	Strontium	ug/g	84.8	<3.00E-03	31.1	n/a	n/a	n/a	n/a	0.556	n/a	
S09V001321		A	13494-80-9	Tellurium	ug/g	87.2	<0.100	19.9	n/a	n/a	n/a	n/a	18.5	n/a	J
S09V001321		A	7440-32-6	Titanium	ug/g	85.5	<5.00E-03	1.81E+03	n/a	n/a	n/a	n/a	0.926	n/a	bc
S09V001321		A	7440-61-1	Uranium	ug/g	95.9	<0.100	<18.5	n/a	n/a	n/a	n/a	18.5	n/a	U
S09V001321		A	7440-33-7	Tungsten	ug/g	84.8	<0.200	38.6	n/a	n/a	n/a	n/a	37.1	n/a	Jb
S09V001321		A	7440-65-5	Yttrium	ug/g	86.6	<2.00E-03	9.86	n/a	n/a	n/a	n/a	0.371	n/a	c
S09V001321		A	7440-66-6	Zinc	ug/g	81.8	<5.00E-03	42.2	n/a	n/a	n/a	n/a	0.926	n/a	
S09V001321		A	7440-67-7	Zirconium	ug/g	82.5	<5.00E-03	20.3	n/a	n/a	n/a	n/a	0.926	n/a	c
S09V001321		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.59E-05	n/a	n/a	n/a	n/a	2.59E-05	n/a	U
S09V001321		A	TH-232	Thorium-232	ug/g	98.8	5.67E-06	3.31	n/a	n/a	n/a	n/a	6.30E-04	n/a	c
S09V001321		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.30E-04	n/a	n/a	n/a	n/a	3.71E-05	n/a	J
S09V001321		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	4.02E-05	n/a	n/a	n/a	n/a	1.85E-05	n/a	J
S09V001321		A	15117-96-1	Uranium-235	ug/g	91.4	<2.20E-07	3.73E-03	n/a	n/a	n/a	n/a	4.08E-05	n/a	c
S09V001321		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.48E-05	n/a	n/a	n/a	n/a	1.48E-05	n/a	U
S09V001321		A	13994-20-2	Neptunium-237	ug/g	109	<1.06E-06	<1.96E-04	n/a	n/a	n/a	n/a	1.96E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K9
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001321	A	U-238	Uranium-238	ug/g	100	<1.10E-05	0.554	n/a	n/a	n/a	n/a	2.04E-03	n/a	c
S09V001321	A	7440-22-4	Silver	ug/g	107	<1.60E-04	0.0913	n/a	n/a	n/a	n/a	0.0296	n/a	J
S09V001321	A	7440-38-2	Arsenic	ug/g	107	<8.40E-04	3.69	n/a	n/a	n/a	n/a	0.156	n/a	
S09V001321	A	7440-43-9	Cadmium	ug/g	106	<6.00E-05	0.120	n/a	n/a	n/a	n/a	0.0111	n/a	
S09V001321	A	7439-92-1	Lead	ug/g	110	<6.20E-04	6.43	n/a	n/a	n/a	n/a	0.115	n/a	c
S09V001321	A	7440-36-0	Antimony	ug/g	105	<8.80E-04	0.500	n/a	n/a	n/a	n/a	0.163	n/a	J
S09V001321	A	7782-49-2	Selenium	ug/g	104	1.29E-03	<0.226	n/a	n/a	n/a	n/a	0.226	n/a	U
S09V001321	A	7440-28-0	Thallium	ug/g	115	1.13E-04	0.125	n/a	n/a	n/a	n/a	0.0111	n/a	B
S09V001321	A	7440-62-2	Vanadium	ug/g	105	<4.80E-04	71.6	n/a	n/a	n/a	n/a	0.889	n/a	
S09V001321	A	7440-02-0	Nickel	ug/g	109	<2.40E-04	18.4	n/a	n/a	n/a	n/a	0.445	n/a	
S09V001355	W	16984-48-8	Fluoride	ug/g	99.0	<0.0805	0.438	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001355	W	666-14-8	Glycolate	ug/g	101	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001355	W	71-50-1	Acetate	ug/g	105	<0.302	<0.0754	n/a	n/a	n/a	n/a	0.0754	n/a	U
S09V001355	W	12311-97-6	Formate	ug/g	103	<0.234	0.124	n/a	n/a	n/a	n/a	0.0583	n/a	J
S09V001355	W	16887-00-6	Chloride	ug/g	98.5	<0.499	0.637	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001355	W	14797-65-0	Nitrite	ug/g	103	<0.960	0.675	n/a	n/a	n/a	n/a	0.240	n/a	J
S09V001355	W	14808-79-8	Sulfate	ug/g	102	<0.935	1.71	n/a	n/a	n/a	n/a	0.233	n/a	J
S09V001355	W	338-70-5	Oxalate	ug/g	100	<1.16	<0.288	n/a	n/a	n/a	n/a	0.288	n/a	U
S09V001355	W	24959-67-9	Bromide	ug/g	97.3	<2.90	<0.724	n/a	n/a	n/a	n/a	0.724	n/a	U
S09V001355	W	14797-55-8	Nitrate	ug/g	99.4	<1.04	6.00	n/a	n/a	n/a	n/a	0.260	n/a	
S09V001355	W	14265-44-2	Phosphate	ug/g	100	<0.835	1.59	n/a	n/a	n/a	n/a	0.209	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y3
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001092			%WATERA	%WATER-APD	%	n/a	n/a	4.487	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001092			57-12-5	Cyanide	ug/g	94.1	<0.0370	<5.11	n/a	n/a	n/a	n/a	5.11	n/a	Ub
S09V001092			7439-97-6	Mercury	ug/g	103	<1.00E-04	<0.0289	n/a	n/a	n/a	n/a	0.0289	n/a	U
S09V001092			PH	pH	unitless	n/a	n/a	8.81	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001092			18496-25-8	Sulfide	ug/g	92.1	<0.180	19.9	14.2	17.0	33.2	90.0	7.00	n/a	J
S09V001098			13966-00-2	Potassium-40	uCi/g	n/a	<6.09E-06	1.04E-05	n/a	n/a	n/a	n/a	5.75E-06	36.56	J
S09V001098			10198-40-0	Cobalt-60	uCi/g	101	<2.38E-07	<2.98E-07	n/a	n/a	n/a	n/a	2.98E-07	n/a	U
S09V001098			14234-35-6	Antimony-125	uCi/g	n/a	<6.34E-07	<7.77E-07	n/a	n/a	n/a	n/a	7.77E-07	n/a	U
S09V001098			10045-97-3	Cesium-137	uCi/g	100	<3.12E-07	<3.89E-07	n/a	n/a	n/a	n/a	3.89E-07	n/a	U
S09V001098			14683-23-9	Europium-152	uCi/g	n/a	<1.19E-06	<1.37E-06	n/a	n/a	n/a	n/a	1.37E-06	n/a	U
S09V001098			15585-10-1	Europium-154	uCi/g	n/a	<7.37E-07	<8.80E-07	n/a	n/a	n/a	n/a	8.80E-07	n/a	U
S09V001098			14391-16-3	Europium-155	uCi/g	n/a	<3.82E-07	<4.87E-07	n/a	n/a	n/a	n/a	4.87E-07	n/a	U
S09V001098			15092-94-1	Lead-212	uCi/g	n/a	<3.65E-07	3.91E-07	n/a	n/a	n/a	n/a	3.98E-07	48.08	J
S09V001098			14733-03-0	Bismuth-214	uCi/g	n/a	<5.74E-07	9.07E-07	n/a	n/a	n/a	n/a	6.32E-07	41.23	J
S09V001098			15067-28-4	Lead-214	uCi/g	n/a	<5.02E-07	9.23E-07	n/a	n/a	n/a	n/a	5.39E-07	28.81	
S09V001098			14274-82-9	Thorium-228	uCi/g	n/a	<6.78E-06	<9.13E-06	n/a	n/a	n/a	n/a	9.13E-06	n/a	U
S09V001098			15065-10-8	Thorium-234	uCi/g	n/a	<2.27E-06	<3.20E-06	n/a	n/a	n/a	n/a	3.20E-06	n/a	U
S09V001098			15046-84-1	Iodine-129	uCi/g	93.6	<2.57E-07	<1.77E-06	n/a	n/a	n/a	n/a	1.77E-06	n/a	U
S09V001101		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	71.3	<77.4	<76.1	n/a	n/a	n/a	n/a	76.1	n/a	U
S09V001101		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.0	n/a	n/a	n/a	n/a	99.0	n/a	U
S09V001101		O	106-46-7	1,4-Dichlorobenzene	ug/kg	70.1	<113	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V001101		O	121-14-2	2,4-Dinitrotoluene	ug/kg	72.9	<38.1	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S09V001101		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S09V001101		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S09V001101		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.5	n/a	n/a	n/a	n/a	56.5	n/a	U
S09V001101		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.8	n/a	n/a	n/a	n/a	52.8	n/a	U
S09V001101		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S09V001101		O	83-32-9	Acenaphthene	ug/kg	75.3	<17.6	<17.3	n/a	n/a	n/a	n/a	17.3	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y3
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001101		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U
S09V001101		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U
S09V001101		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.5	n/a	n/a	n/a	n/a	40.5	n/a	U
S09V001101		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	1.79E+03	n/a	n/a	n/a	n/a	580	n/a	J
S09V001101		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.4	n/a	n/a	n/a	n/a	38.4	n/a	U
S09V001101		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S09V001101		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	70.4	<43.2	<42.5	n/a	n/a	n/a	n/a	42.5	n/a	U
S09V001101		O	95-57-8	2-Chlorophenol	ug/kg	72.5	<66.5	<65.4	n/a	n/a	n/a	n/a	65.4	n/a	U
S09V001101		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U
S09V001101		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S09V001101		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<553	n/a	n/a	n/a	n/a	553	n/a	U
S09V001101		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.9	n/a	n/a	n/a	n/a	46.9	n/a	U
S09V001101		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	69.3	<58.1	<57.1	n/a	n/a	n/a	n/a	57.1	n/a	U
S09V001101		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.8	n/a	n/a	n/a	n/a	34.8	n/a	U
S09V001101		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.5	n/a	n/a	n/a	n/a	68.5	n/a	U
S09V001101		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V001101		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.1	n/a	n/a	n/a	n/a	50.1	n/a	U
S09V001101		O	108-95-2	Phenol	ug/kg	73.4	<59.4	<58.4	n/a	n/a	n/a	n/a	58.4	n/a	U
S09V001101		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.5	n/a	n/a	n/a	n/a	61.5	n/a	U
S09V001101		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.5	n/a	n/a	n/a	n/a	63.5	n/a	U
S09V001101		O	100-02-7	4-Nitrophenol	ug/kg	77.6	<52.6	<51.7	n/a	n/a	n/a	n/a	51.7	n/a	U
S09V001101		O	87-86-5	Pentachlorophenol	ug/kg	72.2	<37.5	<36.9	n/a	n/a	n/a	n/a	36.9	n/a	U
S09V001101		O	129-00-0	Pyrene	ug/kg	80.9	<62.9	<61.8	n/a	n/a	n/a	n/a	61.8	n/a	U
S09V001101		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S09V001101		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001101		O	128-37-0	BHT	ug/kg	n/a	<236	<232	n/a	n/a	n/a	n/a	232	n/a	U
S09V001101		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<179	n/a	n/a	n/a	n/a	179	n/a	U
S09V001101		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y3
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001101		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<549	n/a	n/a	n/a	n/a	549	n/a	U
S09V001101		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<188	n/a	n/a	n/a	n/a	188	n/a	U
S09V001101		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<452	n/a	n/a	n/a	n/a	452	n/a	U
S09V001104		W	14762-75-5	Carbon-14	uCi/g	100	<4.82E-05	<4.98E-05	n/a	n/a	n/a	n/a	4.98E-05	n/a	U
S09V001104		W	10028-17-8	Tritium	uCi/g	96.7	<1.49E-06	<4.50E-04	n/a	n/a	n/a	n/a	4.50E-04	n/a	U
S09V001107		A	7429-90-5	Aluminum	ug/g	88.4	<0.0300	6.03E+03	n/a	n/a	n/a	n/a	5.61	n/a	
S09V001107		A	7440-39-3	Barium	ug/g	88.8	<3.00E-03	68.7	n/a	n/a	n/a	n/a	0.561	n/a	
S09V001107		A	7440-41-7	Beryllium	ug/g	91.8	<1.00E-03	<0.187	n/a	n/a	n/a	n/a	0.187	n/a	U
S09V001107		A	7440-70-2	Calcium	ug/g	85.3	0.0503	6.00E+03	n/a	n/a	n/a	n/a	9.35	n/a	
S09V001107		A	7440-45-1	Cerium	ug/g	89.0	<0.0300	24.2	n/a	n/a	n/a	n/a	5.61	n/a	J
S09V001107		A	7440-48-4	Cobalt	ug/g	85.9	<0.0100	6.61	n/a	n/a	n/a	n/a	1.87	n/a	J
S09V001107		A	7440-47-3	Chromium	ug/g	86.5	<5.00E-03	8.23	n/a	n/a	n/a	n/a	0.935	n/a	
S09V001107		A	7440-50-8	Copper	ug/g	89.7	<5.00E-03	11.4	n/a	n/a	n/a	n/a	0.935	n/a	
S09V001107		A	7440-53-1	Europium	ug/g	88.8	<5.00E-03	1.72	n/a	n/a	n/a	n/a	0.935	n/a	J
S09V001107		A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	1.73E+04	n/a	n/a	n/a	n/a	0.935	n/a	
S09V001107		A	7440-09-7	Potassium	ug/g	85.0	<0.500	1.17E+03	n/a	n/a	n/a	n/a	93.5	n/a	
S09V001107		A	7439-91-0	Lanthanum	ug/g	89.1	<3.00E-03	9.31	n/a	n/a	n/a	n/a	0.561	n/a	
S09V001107		A	7439-93-2	Lithium	ug/g	85.0	<3.00E-03	7.69	n/a	n/a	n/a	n/a	0.561	n/a	
S09V001107		A	7439-95-4	Magnesium	ug/g	83.9	<0.0500	3.83E+03	n/a	n/a	n/a	n/a	9.35	n/a	
S09V001107		A	7439-96-5	Manganese	ug/g	84.9	<3.00E-03	259	n/a	n/a	n/a	n/a	0.561	n/a	
S09V001107		A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<3.74	n/a	n/a	n/a	n/a	3.74	n/a	U
S09V001107		A	7440-23-5	Sodium	ug/g	81.1	<0.100	261	n/a	n/a	n/a	n/a	18.7	n/a	b
S09V001107		A	7440-00-8	Neodymium	ug/g	92.1	<0.0100	21.3	n/a	n/a	n/a	n/a	1.87	n/a	
S09V001107		A	7723-14-0	Phosphorus	ug/g	91.6	<0.0500	615	n/a	n/a	n/a	n/a	9.35	n/a	
S09V001107		A	7440-10-0	Praseodymium	ug/g	93.3	<0.0100	2.12	n/a	n/a	n/a	n/a	1.87	n/a	J
S09V001107		A	7704-34-9	Sulfur	ug/g	89.8	<0.100	37.5	n/a	n/a	n/a	n/a	18.7	n/a	J
S09V001107		A	7440-21-3	Silicon	ug/g	77.2	0.0302	1.05E+03	n/a	n/a	n/a	n/a	5.61	n/a	abc
S09V001107		A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	24.9	n/a	n/a	n/a	n/a	0.561	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y3
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001107		A	7440-32-6	Titanium	ug/g	105	<5.00E-03	1.55E+03	n/a	n/a	n/a	n/a	0.935	n/a	
S09V001107		A	7440-61-1	Uranium	ug/g	97.0	<0.100	<18.7	n/a	n/a	n/a	n/a	18.7	n/a	U
S09V001107		A	7440-33-7	Tungsten	ug/g	88.4	<0.200	37.4	n/a	n/a	n/a	n/a	37.4	n/a	J
S09V001107		A	7440-65-5	Yttrium	ug/g	85.6	<2.00E-03	8.12	n/a	n/a	n/a	n/a	0.374	n/a	
S09V001107		A	7440-66-6	Zinc	ug/g	86.3	<5.00E-03	35.5	n/a	n/a	n/a	n/a	0.935	n/a	
S09V001107		A	7440-67-7	Zirconium	ug/g	87.8	<5.00E-03	15.6	n/a	n/a	n/a	n/a	0.935	n/a	
S09V001107		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.62E-05	n/a	n/a	n/a	n/a	2.62E-05	n/a	U
S09V001107		A	TH-232	Thorium-232	ug/g	99.7	6.60E-05	2.54	n/a	n/a	n/a	n/a	6.36E-04	n/a	
S09V001107		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.10E-04	n/a	n/a	n/a	n/a	3.74E-05	n/a	J
S09V001107		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.87E-05	n/a	n/a	n/a	n/a	1.87E-05	n/a	U
S09V001107		A	15117-96-1	Uranium-235	ug/g	92.4	2.57E-07	3.15E-03	n/a	n/a	n/a	n/a	4.11E-05	n/a	
S09V001107		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.50E-05	n/a	n/a	n/a	n/a	1.50E-05	n/a	U
S09V001107		A	U-238	Uranium-238	ug/g	97.2	3.82E-05	0.438	n/a	n/a	n/a	n/a	2.06E-03	n/a	
S09V001107		A	7440-22-4	Silver	ug/g	105	2.07E-04	0.120	n/a	n/a	n/a	n/a	0.0299	n/a	BJ
S09V001107		A	7440-38-2	Arsenic	ug/g	92.6	<8.40E-04	3.48	n/a	n/a	n/a	n/a	0.157	n/a	
S09V001107		A	7440-43-9	Cadmium	ug/g	96.6	<6.00E-04	0.119	n/a	n/a	n/a	n/a	0.112	n/a	J
S09V001107		A	7439-92-1	Lead	ug/g	102	<6.20E-03	4.40	n/a	n/a	n/a	n/a	1.16	n/a	J
S09V001107		A	7440-36-0	Antimony	ug/g	101	<8.80E-04	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U
S09V001107		A	7782-49-2	Selenium	ug/g	83.0	<0.0122	<2.28	n/a	n/a	n/a	n/a	2.28	n/a	U
S09V001107		A	7440-28-0	Thallium	ug/g	99.3	6.64E-05	0.0834	n/a	n/a	n/a	n/a	0.0112	n/a	BJ
S09V001107		A	7440-62-2	Vanadium	ug/g	94.1	<4.80E-04	47.2	n/a	n/a	n/a	n/a	0.898	n/a	
S09V001107		A	7440-02-0	Nickel	ug/g	97.8	<2.40E-03	9.05	n/a	n/a	n/a	n/a	0.449	n/a	
S09V001110		S	14798-03-9	Ammonium	ug/g	97.8	<0.120	1.29	n/a	n/a	n/a	n/a	0.476	n/a	J
S09V001113		A	14133-76-7	Technetium-99	ug/g	97.3	<6.00E-06	<1.11E-03	n/a	n/a	n/a	n/a	1.11E-03	n/a	U
S09V001113		A	SN-117	Tin-117	ug/g	99.3	<2.20E-04	0.129	n/a	n/a	n/a	n/a	0.0408	n/a	J
S09V001113		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.42E-04	n/a	n/a	n/a	n/a	7.42E-04	n/a	U
S09V001116		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.69E-07	<3.67E-07	n/a	n/a	n/a	n/a	3.67E-07	n/a	U
S09V001116		E	14596-10-2	Americium-241	uCi/g	101	<1.17E-06	<9.17E-07	n/a	n/a	n/a	n/a	9.17E-07	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y3
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001116		E	15510-73-3	Curium-242	uCi/g	n/a	<4.69E-07	<3.67E-07	n/a	n/a	n/a	n/a	3.67E-07	n/a	U
S09V001116		E	13981-37-8	Nickel-63	uCi/g	89.0	<5.65E-05	<4.84E-05	n/a	n/a	n/a	n/a	4.84E-05	n/a	U
S09V001116		E	PU-239/240	Plutonium-239/240	uCi/g	99.6	<6.99E-07	<5.62E-07	n/a	n/a	n/a	n/a	5.62E-07	n/a	U
S09V001116		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.99E-07	<5.62E-07	n/a	n/a	n/a	n/a	5.62E-07	n/a	U
S09V001116		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.51E-06	<2.82E-06	n/a	n/a	n/a	n/a	2.82E-06	n/a	U
S09V001116		E	SR-89/90	Strontium-89/90	uCi/g	95.9	<2.74E-06	<4.06E-06	n/a	n/a	n/a	n/a	4.06E-06	n/a	U
S09V001366		W	16984-48-8	Fluoride	ug/g	102	<0.0805	1.22	n/a	n/a	n/a	n/a	0.0201	n/a	c
S09V001366		W	666-14-8	Glycolate	ug/g	104	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001366		W	71-50-1	Acetate	ug/g	108	<0.302	<0.0754	n/a	n/a	n/a	n/a	0.0754	n/a	U
S09V001366		W	12311-97-6	Formate	ug/g	106	<0.234	0.272	n/a	n/a	n/a	n/a	0.0583	n/a	J
S09V001366		W	16887-00-6	Chloride	ug/g	102	<0.499	0.545	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001366		W	14797-65-0	Nitrite	ug/g	107	<0.960	3.01	n/a	n/a	n/a	n/a	0.240	n/a	
S09V001366		W	14808-79-8	Sulfate	ug/g	105	<0.935	4.36	n/a	n/a	n/a	n/a	0.234	n/a	J
S09V001366		W	338-70-5	Oxalate	ug/g	104	<1.16	<0.288	n/a	n/a	n/a	n/a	0.288	n/a	U
S09V001366		W	24959-67-9	Bromide	ug/g	99.8	<2.90	<0.724	n/a	n/a	n/a	n/a	0.724	n/a	U
S09V001366		W	14797-55-8	Nitrate	ug/g	103	<1.04	4.68	n/a	n/a	n/a	n/a	0.260	n/a	
S09V001366		W	14265-44-2	Phosphate	ug/g	104	<0.835	1.41	n/a	n/a	n/a	n/a	0.209	n/a	J
S09V001579		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.91E-04	n/a	n/a	n/a	n/a	1.91E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y5
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001074			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.294	n/a	n/a	n/a	n/a	0.294	n/a	U
S09V001074			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.559	n/a	n/a	n/a	n/a	0.559	n/a	U
S09V001074			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.735	n/a	n/a	n/a	n/a	0.735	n/a	U
S09V001074			75-35-4	1,1-Dichloroethene	ug/kg	92.9	<0.340	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S09V001074			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.265	n/a	n/a	n/a	n/a	0.265	n/a	U
S09V001074			71-36-3	1-Butanol	ug/kg	97.3	<15.5	<22.9	n/a	n/a	n/a	n/a	22.9	n/a	U
S09V001074			108-10-1	Hexone	ug/kg	118	<1.76	<2.59	n/a	n/a	n/a	n/a	2.59	n/a	U
S09V001074			67-64-1	Acetone	ug/kg	105	<4.38	<6.44	n/a	n/a	n/a	n/a	6.44	n/a	U
S09V001074			71-43-2	Benzene	ug/kg	101	<0.320	<0.471	n/a	n/a	n/a	n/a	0.471	n/a	U
S09V001074			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.441	n/a	n/a	n/a	n/a	0.441	n/a	U
S09V001074			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.441	n/a	n/a	n/a	n/a	0.441	n/a	U
S09V001074			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.265	n/a	n/a	n/a	n/a	0.265	n/a	U
S09V001074			108-90-7	Chlorobenzene	ug/kg	97.4	<0.220	<0.324	n/a	n/a	n/a	n/a	0.324	n/a	U
S09V001074			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.353	n/a	n/a	n/a	n/a	0.353	n/a	U
S09V001074			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.912	n/a	n/a	n/a	n/a	0.912	n/a	U
S09V001074			78-93-3	2-Butanone	ug/kg	112	<2.66	<3.91	n/a	n/a	n/a	n/a	3.91	n/a	U
S09V001074			75-09-2	Methylenechloride	ug/kg	n/a	0.847	1.08	n/a	n/a	n/a	n/a	0.500	n/a	BJ
S09V001074			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.588	n/a	n/a	n/a	n/a	0.588	n/a	U
S09V001074			100-42-5	Styrene	ug/kg	n/a	<0.200	0.654	n/a	n/a	n/a	n/a	0.294	n/a	J
S09V001074			108-88-3	Toluene	ug/kg	104	<0.240	<0.353	n/a	n/a	n/a	n/a	0.353	n/a	U
S09V001074			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.206	n/a	n/a	n/a	n/a	0.206	n/a	U
S09V001074			79-01-6	Trichloroethene	ug/kg	99.4	<0.300	<0.441	n/a	n/a	n/a	n/a	0.441	n/a	U
S09V001074			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.941	n/a	n/a	n/a	n/a	0.941	n/a	U
S09V001074			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.382	n/a	n/a	n/a	n/a	0.382	n/a	U
S09V001074			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.529	n/a	n/a	n/a	n/a	0.529	n/a	U
S09V001074			110-54-3	Hexane	ug/kg	n/a	<0.440	2.46	n/a	n/a	n/a	n/a	0.647	n/a	J
S09V001074			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.735	n/a	n/a	n/a	n/a	0.735	n/a	U
S09V001074			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<2.32	n/a	n/a	n/a	n/a	2.32	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y5
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001074			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<1.43	n/a	n/a	n/a	n/a	1.43	n/a	U
S09V001074			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<1.30	n/a	n/a	n/a	n/a	1.30	n/a	U
S09V001074			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<2.85	n/a	n/a	n/a	n/a	2.85	n/a	U
S09V001074			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.294	n/a	n/a	n/a	n/a	0.294	n/a	U
S09V001074			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.618	n/a	n/a	n/a	n/a	0.618	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y6
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001093			%WATERA	%WATER-APD	%	n/a	n/a	3.881	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001093			57-12-5	Cyanide	ug/g	103	<0.0370	<5.36	n/a	n/a	n/a	n/a	5.36	n/a	Ub
S09V001093			7439-97-6	Mercury	ug/g	103	<1.00E-04	<0.0276	n/a	n/a	n/a	n/a	0.0276	n/a	U
S09V001093			PH	pH	unitless	n/a	n/a	8.84	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001093			18496-25-8	Sulfide	ug/g	92.1	<0.180	14.6	n/a	n/a	n/a	n/a	7.40	n/a	J
S09V001099			13966-00-2	Potassium-40	uCi/g	n/a	<6.09E-06	1.40E-05	1.12E-05	1.26E-05	22.0	n/a	5.72E-06	27.98	
S09V001099			10198-40-0	Cobalt-60	uCi/g	101	<2.38E-07	<2.83E-07	<2.92E-07	n/a	n/a	n/a	2.83E-07	n/a	U
S09V001099			14234-35-6	Antimony-125	uCi/g	n/a	<6.34E-07	<7.50E-07	<7.35E-07	n/a	n/a	n/a	7.50E-07	n/a	U
S09V001099			10045-97-3	Cesium-137	uCi/g	100	<3.12E-07	<3.78E-07	<3.36E-07	n/a	n/a	n/a	3.78E-07	n/a	U
S09V001099			14683-23-9	Europium-152	uCi/g	n/a	<1.19E-06	<1.37E-06	<1.38E-06	n/a	n/a	n/a	1.37E-06	n/a	U
S09V001099			15585-10-1	Europium-154	uCi/g	n/a	<7.37E-07	<9.69E-07	<9.26E-07	n/a	n/a	n/a	9.69E-07	n/a	U
S09V001099			14391-16-3	Europium-155	uCi/g	n/a	<3.82E-07	<4.83E-07	<4.57E-07	n/a	n/a	n/a	4.83E-07	n/a	U
S09V001099			14733-03-0	Bismuth-214	uCi/g	n/a	<5.74E-07	6.63E-07	<5.09E-07	n/a	n/a	n/a	5.27E-07	48.77	J
S09V001099			15067-28-4	Lead-214	uCi/g	n/a	<5.02E-07	8.76E-07	<5.21E-07	n/a	n/a	n/a	7.14E-07	34.23	J
S09V001099			14274-82-9	Thorium-228	uCi/g	n/a	<6.78E-06	<8.77E-06	<8.70E-06	n/a	n/a	n/a	8.77E-06	n/a	U
S09V001099			15065-10-8	Thorium-234	uCi/g	n/a	<2.27E-06	<2.95E-06	<2.87E-06	n/a	n/a	n/a	2.95E-06	n/a	U
S09V001099			15046-84-1	Iodine-129	uCi/g	93.6	<2.57E-07	<1.29E-07	<1.44E-07	n/a	n/a	n/a	1.29E-07	n/a	U
S09V001102		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	71.3	<77.4	<76.2	n/a	n/a	n/a	n/a	76.2	n/a	U
S09V001102		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.1	n/a	n/a	n/a	n/a	99.1	n/a	U
S09V001102		O	106-46-7	1,4-Dichlorobenzene	ug/kg	70.1	<113	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V001102		O	121-14-2	2,4-Dinitrotoluene	ug/kg	72.9	<38.1	<37.5	n/a	n/a	n/a	n/a	37.5	n/a	U
S09V001102		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.3	n/a	n/a	n/a	n/a	43.3	n/a	U
S09V001102		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S09V001102		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S09V001102		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.9	n/a	n/a	n/a	n/a	52.9	n/a	U
S09V001102		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S09V001102		O	83-32-9	Acenaphthene	ug/kg	75.3	<17.6	<17.3	n/a	n/a	n/a	n/a	17.3	n/a	U
S09V001102		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y6
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001102		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U
S09V001102		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.6	n/a	n/a	n/a	n/a	40.6	n/a	U
S09V001102		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	2.84E+03	n/a	n/a	n/a	n/a	581	n/a	J
S09V001102		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.5	n/a	n/a	n/a	n/a	38.5	n/a	U
S09V001102		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S09V001102		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	70.4	<43.2	<42.5	n/a	n/a	n/a	n/a	42.5	n/a	U
S09V001102		O	95-57-8	2-Chlorophenol	ug/kg	72.5	<66.5	<65.5	n/a	n/a	n/a	n/a	65.5	n/a	U
S09V001102		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.1	n/a	n/a	n/a	n/a	80.1	n/a	U
S09V001102		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.3	n/a	n/a	n/a	n/a	50.3	n/a	U
S09V001102		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<553	n/a	n/a	n/a	n/a	553	n/a	U
S09V001102		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.9	n/a	n/a	n/a	n/a	46.9	n/a	U
S09V001102		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	69.3	<58.1	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S09V001102		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.8	n/a	n/a	n/a	n/a	34.8	n/a	U
S09V001102		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.6	n/a	n/a	n/a	n/a	68.6	n/a	U
S09V001102		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V001102		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S09V001102		O	108-95-2	Phenol	ug/kg	73.4	<59.4	<58.5	n/a	n/a	n/a	n/a	58.5	n/a	U
S09V001102		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.6	n/a	n/a	n/a	n/a	61.6	n/a	U
S09V001102		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.6	n/a	n/a	n/a	n/a	63.6	n/a	U
S09V001102		O	100-02-7	4-Nitrophenol	ug/kg	77.6	<52.6	<51.8	n/a	n/a	n/a	n/a	51.8	n/a	U
S09V001102		O	87-86-5	Pentachlorophenol	ug/kg	72.2	<37.5	<36.9	n/a	n/a	n/a	n/a	36.9	n/a	U
S09V001102		O	129-00-0	Pyrene	ug/kg	80.9	<62.9	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S09V001102		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.0	n/a	n/a	n/a	n/a	64.0	n/a	U
S09V001102		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001102		O	128-37-0	BHT	ug/kg	n/a	<236	<232	n/a	n/a	n/a	n/a	232	n/a	U
S09V001102		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S09V001102		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V001102		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<550	n/a	n/a	n/a	n/a	550	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y6
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001102		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<188	n/a	n/a	n/a	n/a	188	n/a	U
S09V001102		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<453	n/a	n/a	n/a	n/a	453	n/a	U
S09V001105		W	14762-75-5	Carbon-14	uCi/g	100	<4.82E-05	<4.86E-05	n/a	n/a	n/a	n/a	4.86E-05	n/a	U
S09V001105		W	10028-17-8	Tritium	uCi/g	96.7	<1.49E-06	<5.50E-04	n/a	n/a	n/a	n/a	5.50E-04	n/a	U
S09V001108		A	7429-90-5	Aluminum	ug/g	88.4	<0.0300	5.19E+03	n/a	n/a	n/a	n/a	5.54	n/a	
S09V001108		A	7440-39-3	Barium	ug/g	88.8	<3.00E-03	40.6	n/a	n/a	n/a	n/a	0.554	n/a	
S09V001108		A	7440-41-7	Beryllium	ug/g	91.8	<1.00E-03	<0.185	n/a	n/a	n/a	n/a	0.185	n/a	U
S09V001108		A	7440-70-2	Calcium	ug/g	85.3	0.0503	5.34E+03	n/a	n/a	n/a	n/a	9.23	n/a	
S09V001108		A	7440-45-1	Cerium	ug/g	89.0	<0.0300	16.6	n/a	n/a	n/a	n/a	5.54	n/a	J
S09V001108		A	7440-48-4	Cobalt	ug/g	85.9	<0.0100	5.36	n/a	n/a	n/a	n/a	1.85	n/a	J
S09V001108		A	7440-47-3	Chromium	ug/g	86.5	<5.00E-03	9.50	n/a	n/a	n/a	n/a	0.923	n/a	
S09V001108		A	7440-50-8	Copper	ug/g	89.7	<5.00E-03	10.7	n/a	n/a	n/a	n/a	0.923	n/a	
S09V001108		A	7440-53-1	Europium	ug/g	88.8	<5.00E-03	1.17	n/a	n/a	n/a	n/a	0.923	n/a	J
S09V001108		A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	1.52E+04	n/a	n/a	n/a	n/a	0.923	n/a	
S09V001108		A	7440-09-7	Potassium	ug/g	85.0	<0.500	733	n/a	n/a	n/a	n/a	92.3	n/a	J
S09V001108		A	7439-91-0	Lanthanum	ug/g	89.1	<3.00E-03	6.81	n/a	n/a	n/a	n/a	0.554	n/a	
S09V001108		A	7439-93-2	Lithium	ug/g	85.0	<3.00E-03	6.66	n/a	n/a	n/a	n/a	0.554	n/a	
S09V001108		A	7439-95-4	Magnesium	ug/g	83.9	<0.0500	3.68E+03	n/a	n/a	n/a	n/a	9.23	n/a	
S09V001108		A	7439-96-5	Manganese	ug/g	84.9	<3.00E-03	229	n/a	n/a	n/a	n/a	0.554	n/a	
S09V001108		A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<3.69	n/a	n/a	n/a	n/a	3.69	n/a	U
S09V001108		A	7440-23-5	Sodium	ug/g	81.1	<0.100	205	n/a	n/a	n/a	n/a	18.5	n/a	b
S09V001108		A	7440-00-8	Neodymium	ug/g	92.1	<0.0100	18.2	n/a	n/a	n/a	n/a	1.85	n/a	J
S09V001108		A	7723-14-0	Phosphorus	ug/g	91.6	<0.0500	550	n/a	n/a	n/a	n/a	9.23	n/a	
S09V001108		A	7704-34-9	Sulfur	ug/g	89.8	<0.100	41.7	n/a	n/a	n/a	n/a	18.5	n/a	J
S09V001108		A	7440-21-3	Silicon	ug/g	77.2	0.0302	883	n/a	n/a	n/a	n/a	5.54	n/a	abc
S09V001108		A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	25.7	n/a	n/a	n/a	n/a	0.554	n/a	
S09V001108		A	7440-32-6	Titanium	ug/g	105	<5.00E-03	1.35E+03	n/a	n/a	n/a	n/a	0.923	n/a	
S09V001108		A	7440-61-1	Uranium	ug/g	97.0	<0.100	<18.5	n/a	n/a	n/a	n/a	18.5	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y6
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001108		A	7440-65-5	Yttrium	ug/g	85.6	<2.00E-03	6.92	n/a	n/a	n/a	n/a	0.369	n/a	
S09V001108		A	7440-66-6	Zinc	ug/g	86.3	<5.00E-03	28.5	n/a	n/a	n/a	n/a	0.923	n/a	
S09V001108		A	7440-67-7	Zirconium	ug/g	87.8	<5.00E-03	14.0	n/a	n/a	n/a	n/a	0.923	n/a	
S09V001108		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.58E-05	n/a	n/a	n/a	n/a	2.58E-05	n/a	U
S09V001108		A	TH-232	Thorium-232	ug/g	99.7	6.60E-05	1.78	n/a	n/a	n/a	n/a	6.28E-04	n/a	
S09V001108		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	6.42E-05	n/a	n/a	n/a	n/a	3.69E-05	n/a	J
S09V001108		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	2.82E-05	n/a	n/a	n/a	n/a	1.85E-05	n/a	J
S09V001108		A	15117-96-1	Uranium-235	ug/g	92.4	2.57E-07	2.68E-03	n/a	n/a	n/a	n/a	4.06E-05	n/a	
S09V001108		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.48E-05	n/a	n/a	n/a	n/a	1.48E-05	n/a	U
S09V001108		A	U-238	Uranium-238	ug/g	97.2	3.82E-05	0.393	n/a	n/a	n/a	n/a	2.03E-03	n/a	
S09V001108		A	7440-22-4	Silver	ug/g	105	2.07E-04	0.118	n/a	n/a	n/a	n/a	0.0295	n/a	BJ
S09V001108		A	7440-38-2	Arsenic	ug/g	92.6	<8.40E-04	2.07	n/a	n/a	n/a	n/a	0.155	n/a	
S09V001108		A	7440-43-9	Cadmium	ug/g	96.6	<6.00E-04	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001108		A	7439-92-1	Lead	ug/g	102	<6.20E-03	3.37	n/a	n/a	n/a	n/a	1.14	n/a	J
S09V001108		A	7440-36-0	Antimony	ug/g	101	<8.80E-04	<0.162	n/a	n/a	n/a	n/a	0.162	n/a	U
S09V001108		A	7782-49-2	Selenium	ug/g	83.0	<0.0122	<2.25	n/a	n/a	n/a	n/a	2.25	n/a	U
S09V001108		A	7440-28-0	Thallium	ug/g	99.3	6.64E-05	0.0521	n/a	n/a	n/a	n/a	0.0111	n/a	BJ
S09V001108		A	7440-62-2	Vanadium	ug/g	94.1	<4.80E-04	40.9	n/a	n/a	n/a	n/a	0.886	n/a	
S09V001108		A	7440-02-0	Nickel	ug/g	97.8	<2.40E-03	9.01	n/a	n/a	n/a	n/a	0.443	n/a	
S09V001111		S	14798-03-9	Ammonium	ug/g	97.8	<0.120	<0.472	n/a	n/a	n/a	n/a	0.472	n/a	U
S09V001114		A	14133-76-7	Technetium-99	ug/g	97.3	<6.00E-06	<1.18E-03	n/a	n/a	n/a	n/a	1.18E-03	n/a	U
S09V001114		A	SN-117	Tin-117	ug/g	99.3	<2.20E-04	<0.0433	n/a	n/a	n/a	n/a	0.0433	n/a	U
S09V001114		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.88E-04	n/a	n/a	n/a	n/a	7.88E-04	n/a	U
S09V001117		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.69E-07	<3.74E-07	<4.54E-07	n/a	n/a	n/a	3.74E-07	n/a	U
S09V001117		E	14596-10-2	Americium-241	uCi/g	101	<1.17E-06	<9.35E-07	<1.14E-06	n/a	n/a	n/a	9.35E-07	n/a	U
S09V001117		E	15510-73-3	Curium-242	uCi/g	n/a	<4.69E-07	<3.74E-07	<4.54E-07	n/a	n/a	n/a	3.74E-07	n/a	U
S09V001117		E	13981-37-8	Nickel-63	uCi/g	89.0	<5.65E-05	<5.06E-05	<5.01E-05	n/a	n/a	n/a	5.06E-05	n/a	U
S09V001117		E	PU-239/240	Plutonium-239/240	uCi/g	99.6	<6.99E-07	<5.44E-07	<5.85E-07	n/a	n/a	n/a	5.44E-07	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y6
Sample Depth: 10-12

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001117	E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.99E-07	<5.44E-07	<5.85E-07	n/a	n/a	n/a	5.44E-07	n/a	U
S09V001117	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.51E-06	<1.67E-06	<1.43E-06	n/a	n/a	n/a	1.67E-06	n/a	U
S09V001117	E	SR-89/90	Strontium-89/90	uCi/g	95.9	<2.74E-06	<3.64E-06	<3.08E-06	n/a	n/a	n/a	3.64E-06	n/a	U
S09V001367	W	16984-48-8	Fluoride	ug/g	102	<0.0805	0.695	n/a	n/a	n/a	n/a	0.0201	n/a	c
S09V001367	W	666-14-8	Glycolate	ug/g	104	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001367	W	71-50-1	Acetate	ug/g	108	<0.302	0.176	n/a	n/a	n/a	n/a	0.0754	n/a	J
S09V001367	W	12311-97-6	Formate	ug/g	106	<0.234	0.236	n/a	n/a	n/a	n/a	0.0583	n/a	J
S09V001367	W	16887-00-6	Chloride	ug/g	102	<0.499	0.416	n/a	n/a	n/a	n/a	0.125	n/a	J
S09V001367	W	14797-65-0	Nitrite	ug/g	107	<0.960	2.11	n/a	n/a	n/a	n/a	0.240	n/a	J
S09V001367	W	14808-79-8	Sulfate	ug/g	105	<0.935	7.73	n/a	n/a	n/a	n/a	0.234	n/a	
S09V001367	W	338-70-5	Oxalate	ug/g	104	<1.16	<0.289	n/a	n/a	n/a	n/a	0.289	n/a	U
S09V001367	W	24959-67-9	Bromide	ug/g	99.8	<2.90	<0.724	n/a	n/a	n/a	n/a	0.724	n/a	U
S09V001367	W	14797-55-8	Nitrate	ug/g	103	<1.04	3.25	n/a	n/a	n/a	n/a	0.260	n/a	
S09V001367	W	14265-44-2	Phosphate	ug/g	104	<0.835	<0.209	n/a	n/a	n/a	n/a	0.209	n/a	U
S09V001580	A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<2.10E-04	n/a	n/a	n/a	n/a	2.10E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y8
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001075			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V001075			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.306	n/a	n/a	n/a	n/a	0.306	n/a	U
S09V001075			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.403	n/a	n/a	n/a	n/a	0.403	n/a	U
S09V001075			75-35-4	1,1-Dichloroethene	ug/kg	92.9	<0.340	<0.274	n/a	n/a	n/a	n/a	0.274	n/a	U
S09V001075			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S09V001075			71-36-3	1-Butanol	ug/kg	97.3	<15.5	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
S09V001075			108-10-1	Hexone	ug/kg	118	<1.76	<1.42	n/a	n/a	n/a	n/a	1.42	n/a	U
S09V001075			67-64-1	Acetone	ug/kg	105	<4.38	<3.53	n/a	n/a	n/a	n/a	3.53	n/a	U
S09V001075			71-43-2	Benzene	ug/kg	101	<0.320	<0.258	n/a	n/a	n/a	n/a	0.258	n/a	U
S09V001075			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.242	n/a	n/a	n/a	n/a	0.242	n/a	U
S09V001075			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.242	n/a	n/a	n/a	n/a	0.242	n/a	U
S09V001075			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S09V001075			108-90-7	Chlorobenzene	ug/kg	97.4	<0.220	<0.177	n/a	n/a	n/a	n/a	0.177	n/a	U
S09V001075			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V001075			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S09V001075			78-93-3	2-Butanone	ug/kg	112	<2.66	<2.15	n/a	n/a	n/a	n/a	2.15	n/a	U
S09V001075			75-09-2	Methylenechloride	ug/kg	n/a	0.847	0.491	n/a	n/a	n/a	n/a	0.274	n/a	BJ
S09V001075			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.323	n/a	n/a	n/a	n/a	0.323	n/a	U
S09V001075			100-42-5	Styrene	ug/kg	n/a	<0.200	0.245	n/a	n/a	n/a	n/a	0.161	n/a	J
S09V001075			108-88-3	Toluene	ug/kg	104	<0.240	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V001075			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.113	n/a	n/a	n/a	n/a	0.113	n/a	U
S09V001075			79-01-6	Trichloroethene	ug/kg	99.4	<0.300	<0.242	n/a	n/a	n/a	n/a	0.242	n/a	U
S09V001075			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.516	n/a	n/a	n/a	n/a	0.516	n/a	U
S09V001075			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.210	n/a	n/a	n/a	n/a	0.210	n/a	U
S09V001075			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.290	n/a	n/a	n/a	n/a	0.290	n/a	U
S09V001075			110-54-3	Hexane	ug/kg	n/a	<0.440	2.12	n/a	n/a	n/a	n/a	0.355	n/a	J
S09V001075			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.403	n/a	n/a	n/a	n/a	0.403	n/a	U
S09V001075			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.27	n/a	n/a	n/a	n/a	1.27	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y8
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001075			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.784	n/a	n/a	n/a	n/a	0.784	n/a	U
S09V001075			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.714	n/a	n/a	n/a	n/a	0.714	n/a	U
S09V001075			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.56	n/a	n/a	n/a	n/a	1.56	n/a	U
S09V001075			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V001075			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.339	n/a	n/a	n/a	n/a	0.339	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y9
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001094			%WATERA	%WATER-APD	%	n/a	n/a	3.471	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001094			57-12-5	Cyanide	ug/g	103	<0.0370	<5.33	n/a	n/a	n/a	n/a	5.33	n/a	Ub
S09V001094			7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0182	n/a	n/a	n/a	99.0	0.0182	n/a	U
S09V001094			PH	pH	unitless	n/a	n/a	8.94	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001094			18496-25-8	Sulfide	ug/g	92.1	<0.180	39.9	n/a	n/a	n/a	n/a	7.04	n/a	
S09V001100			13966-00-2	Potassium-40	uCi/g	n/a	<6.09E-06	8.72E-06	n/a	n/a	n/a	n/a	5.05E-06	38.05	J
S09V001100			10198-40-0	Cobalt-60	uCi/g	101	<2.38E-07	<2.43E-07	n/a	n/a	n/a	n/a	2.43E-07	n/a	U
S09V001100			14234-35-6	Antimony-125	uCi/g	n/a	<6.34E-07	<6.63E-07	n/a	n/a	n/a	n/a	6.63E-07	n/a	U
S09V001100			10045-97-3	Cesium-137	uCi/g	100	<3.12E-07	<3.13E-07	n/a	n/a	n/a	n/a	3.13E-07	n/a	U
S09V001100			14683-23-9	Europium-152	uCi/g	n/a	<1.19E-06	<1.36E-06	n/a	n/a	n/a	n/a	1.36E-06	n/a	U
S09V001100			15585-10-1	Europium-154	uCi/g	n/a	<7.37E-07	<8.17E-07	n/a	n/a	n/a	n/a	8.17E-07	n/a	U
S09V001100			14391-16-3	Europium-155	uCi/g	n/a	<3.82E-07	<4.24E-07	n/a	n/a	n/a	n/a	4.24E-07	n/a	U
S09V001100			14274-82-9	Thorium-228	uCi/g	n/a	<6.78E-06	<7.87E-06	n/a	n/a	n/a	n/a	7.87E-06	n/a	U
S09V001100			15065-10-8	Thorium-234	uCi/g	n/a	<2.27E-06	<2.74E-06	n/a	n/a	n/a	n/a	2.74E-06	n/a	U
S09V001100			15046-84-1	Iodine-129	uCi/g	93.6	<2.57E-07	<1.72E-07	n/a	n/a	n/a	n/a	1.72E-07	n/a	U
S09V001103		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	71.3	<77.4	<76.5	n/a	n/a	n/a	n/a	76.5	n/a	U
S09V001103		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.5	n/a	n/a	n/a	n/a	99.5	n/a	U
S09V001103		O	106-46-7	1,4-Dichlorobenzene	ug/kg	70.1	<113	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V001103		O	121-14-2	2,4-Dinitrotoluene	ug/kg	72.9	<38.1	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S09V001103		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S09V001103		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U
S09V001103		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.8	n/a	n/a	n/a	n/a	56.8	n/a	U
S09V001103		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.1	n/a	n/a	n/a	n/a	53.1	n/a	U
S09V001103		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S09V001103		O	83-32-9	Acenaphthene	ug/kg	75.3	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S09V001103		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S09V001103		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U
S09V001103		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.7	n/a	n/a	n/a	n/a	40.7	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y9
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001103		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	7.42E+03	n/a	n/a	n/a	n/a	583	n/a	
S09V001103		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.6	n/a	n/a	n/a	n/a	38.6	n/a	U
S09V001103		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S09V001103		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	70.4	<43.2	<42.7	n/a	n/a	n/a	n/a	42.7	n/a	U
S09V001103		O	95-57-8	2-Chlorophenol	ug/kg	72.5	<66.5	<65.7	n/a	n/a	n/a	n/a	65.7	n/a	U
S09V001103		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.4	n/a	n/a	n/a	n/a	80.4	n/a	U
S09V001103		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S09V001103		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<556	n/a	n/a	n/a	n/a	556	n/a	U
S09V001103		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.1	n/a	n/a	n/a	n/a	47.1	n/a	U
S09V001103		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	69.3	<58.1	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S09V001103		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.0	n/a	n/a	n/a	n/a	35.0	n/a	U
S09V001103		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.9	n/a	n/a	n/a	n/a	68.9	n/a	U
S09V001103		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V001103		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S09V001103		O	108-95-2	Phenol	ug/kg	73.4	<59.4	<58.7	n/a	n/a	n/a	n/a	58.7	n/a	U
S09V001103		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.8	n/a	n/a	n/a	n/a	61.8	n/a	U
S09V001103		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.8	n/a	n/a	n/a	n/a	63.8	n/a	U
S09V001103		O	100-02-7	4-Nitrophenol	ug/kg	77.6	<52.6	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S09V001103		O	87-86-5	Pentachlorophenol	ug/kg	72.2	<37.5	<37.0	n/a	n/a	n/a	n/a	37.0	n/a	U
S09V001103		O	129-00-0	Pyrene	ug/kg	80.9	<62.9	<62.1	n/a	n/a	n/a	n/a	62.1	n/a	U
S09V001103		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.2	n/a	n/a	n/a	n/a	64.2	n/a	U
S09V001103		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001103		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S09V001103		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S09V001103		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V001103		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<552	n/a	n/a	n/a	n/a	552	n/a	U
S09V001103		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S09V001103		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y9
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001106		W	14762-75-5	Carbon-14	uCi/g	100	<4.82E-05	<5.25E-05	n/a	n/a	n/a	n/a	5.25E-05	n/a	U
S09V001106		W	10028-17-8	Tritium	uCi/g	96.7	<1.49E-06	<4.84E-04	n/a	n/a	n/a	n/a	4.84E-04	n/a	U
S09V001109		A	7429-90-5	Aluminum	ug/g	88.4	<0.0300	4.48E+03	n/a	n/a	n/a	n/a	5.84	n/a	
S09V001109		A	7440-39-3	Barium	ug/g	88.8	<3.00E-03	75.4	n/a	n/a	n/a	n/a	0.584	n/a	
S09V001109		A	7440-41-7	Beryllium	ug/g	91.8	<1.00E-03	<0.195	n/a	n/a	n/a	n/a	0.195	n/a	U
S09V001109		A	7440-70-2	Calcium	ug/g	85.3	0.0503	6.37E+03	n/a	n/a	n/a	n/a	9.74	n/a	
S09V001109		A	7440-45-1	Cerium	ug/g	89.0	<0.0300	28.5	n/a	n/a	n/a	n/a	5.84	n/a	J
S09V001109		A	7440-48-4	Cobalt	ug/g	85.9	<0.0100	7.76	n/a	n/a	n/a	n/a	1.95	n/a	J
S09V001109		A	7440-47-3	Chromium	ug/g	86.5	<5.00E-03	4.74	n/a	n/a	n/a	n/a	0.974	n/a	
S09V001109		A	7440-50-8	Copper	ug/g	89.7	<5.00E-03	10.1	n/a	n/a	n/a	n/a	0.974	n/a	
S09V001109		A	7440-53-1	Europium	ug/g	88.8	<5.00E-03	1.28	n/a	n/a	n/a	n/a	0.974	n/a	J
S09V001109		A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	2.39E+04	n/a	n/a	n/a	n/a	0.974	n/a	
S09V001109		A	7440-09-7	Potassium	ug/g	85.0	<0.500	656	n/a	n/a	n/a	n/a	97.4	n/a	J
S09V001109		A	7439-91-0	Lanthanum	ug/g	89.1	<3.00E-03	9.14	n/a	n/a	n/a	n/a	0.584	n/a	
S09V001109		A	7439-93-2	Lithium	ug/g	85.0	<3.00E-03	3.35	n/a	n/a	n/a	n/a	0.584	n/a	J
S09V001109		A	7439-95-4	Magnesium	ug/g	83.9	<0.0500	2.97E+03	n/a	n/a	n/a	n/a	9.74	n/a	
S09V001109		A	7439-96-5	Manganese	ug/g	84.9	<3.00E-03	302	n/a	n/a	n/a	n/a	0.584	n/a	
S09V001109		A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<3.89	n/a	n/a	n/a	n/a	3.89	n/a	U
S09V001109		A	7440-23-5	Sodium	ug/g	81.1	<0.100	356	n/a	n/a	n/a	n/a	19.5	n/a	b
S09V001109		A	7440-00-8	Neodymium	ug/g	92.1	<0.0100	27.1	n/a	n/a	n/a	n/a	1.95	n/a	
S09V001109		A	7723-14-0	Phosphorus	ug/g	91.6	<0.0500	947	n/a	n/a	n/a	n/a	9.74	n/a	
S09V001109		A	7440-05-3	Palladium	ug/g	99.5	<0.100	41.5	n/a	n/a	n/a	n/a	19.5	n/a	J
S09V001109		A	7440-10-0	Praseodymium	ug/g	93.3	<0.0100	2.10	n/a	n/a	n/a	n/a	1.95	n/a	J
S09V001109		A	7704-34-9	Sulfur	ug/g	89.8	<0.100	66.2	n/a	n/a	n/a	n/a	19.5	n/a	J
S09V001109		A	7440-21-3	Silicon	ug/g	77.2	0.0302	816	n/a	n/a	n/a	n/a	5.84	n/a	abc
S09V001109		A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	21.7	n/a	n/a	n/a	n/a	0.584	n/a	
S09V001109		A	7440-25-7	Tantalum	ug/g	83.8	<0.0500	10.0	n/a	n/a	n/a	n/a	9.74	n/a	Jb
S09V001109		A	13494-80-9	Tellurium	ug/g	88.3	<0.100	25.8	n/a	n/a	n/a	n/a	19.5	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y9
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001109		A	7440-32-6	Titanium	ug/g	105	<5.00E-03	2.67E+03	n/a	n/a	n/a	n/a	0.974	n/a	
S09V001109		A	7440-61-1	Uranium	ug/g	97.0	<0.100	<19.5	n/a	n/a	n/a	n/a	19.5	n/a	U
S09V001109		A	7440-65-5	Yttrium	ug/g	85.6	<2.00E-03	11.1	n/a	n/a	n/a	n/a	0.389	n/a	
S09V001109		A	7440-66-6	Zinc	ug/g	86.3	<5.00E-03	34.9	n/a	n/a	n/a	n/a	0.974	n/a	
S09V001109		A	7440-67-7	Zirconium	ug/g	87.8	<5.00E-03	25.3	n/a	n/a	n/a	n/a	0.974	n/a	
S09V001109		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.73E-05	n/a	n/a	n/a	n/a	2.73E-05	n/a	U
S09V001109		A	TH-232	Thorium-232	ug/g	99.7	6.60E-05	1.78	n/a	n/a	n/a	n/a	6.62E-04	n/a	
S09V001109		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	7.75E-05	n/a	n/a	n/a	n/a	3.89E-05	n/a	J
S09V001109		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	2.96E-05	n/a	n/a	n/a	n/a	1.95E-05	n/a	J
S09V001109		A	15117-96-1	Uranium-235	ug/g	92.4	2.57E-07	2.82E-03	n/a	n/a	n/a	n/a	4.28E-05	n/a	
S09V001109		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.56E-05	n/a	n/a	n/a	n/a	1.56E-05	n/a	U
S09V001109		A	U-238	Uranium-238	ug/g	97.2	3.82E-05	0.422	n/a	n/a	n/a	n/a	2.14E-03	n/a	
S09V001109		A	7440-22-4	Silver	ug/g	105	2.07E-04	0.136	n/a	n/a	n/a	n/a	0.0312	n/a	BJ
S09V001109		A	7440-38-2	Arsenic	ug/g	92.6	<8.40E-04	1.92	n/a	n/a	n/a	n/a	0.164	n/a	
S09V001109		A	7440-43-9	Cadmium	ug/g	96.6	<6.00E-04	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001109		A	7439-92-1	Lead	ug/g	102	<6.20E-03	3.41	n/a	n/a	n/a	n/a	1.21	n/a	J
S09V001109		A	7440-36-0	Antimony	ug/g	101	<8.80E-04	<0.171	n/a	n/a	n/a	n/a	0.171	n/a	U
S09V001109		A	7782-49-2	Selenium	ug/g	83.0	<0.0122	<2.38	n/a	n/a	n/a	n/a	2.38	n/a	U
S09V001109		A	7440-28-0	Thallium	ug/g	99.3	6.64E-05	0.0752	n/a	n/a	n/a	n/a	0.0117	n/a	BJ
S09V001109		A	7440-62-2	Vanadium	ug/g	94.1	<4.80E-04	78.5	n/a	n/a	n/a	n/a	0.935	n/a	
S09V001109		A	7440-02-0	Nickel	ug/g	97.8	<2.40E-03	6.40	n/a	n/a	n/a	n/a	0.467	n/a	
S09V001112		S	14798-03-9	Ammonium	ug/g	97.8	<0.120	<0.472	n/a	n/a	n/a	n/a	0.472	n/a	U
S09V001115		A	14133-76-7	Technetium-99	ug/g	97.3	<6.00E-06	<1.16E-03	n/a	n/a	n/a	n/a	1.16E-03	n/a	U
S09V001115		A	SN-117	Tin-117	ug/g	99.3	<2.20E-04	<0.0426	n/a	n/a	n/a	n/a	0.0426	n/a	U
S09V001115		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.74E-04	n/a	n/a	n/a	n/a	7.74E-04	n/a	U
S09V001118		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.69E-07	<4.36E-07	n/a	n/a	n/a	n/a	4.36E-07	n/a	U
S09V001118		E	14596-10-2	Americium-241	uCi/g	101	<1.17E-06	<1.09E-06	n/a	n/a	n/a	n/a	1.09E-06	n/a	U
S09V001118		E	15510-73-3	Curium-242	uCi/g	n/a	<4.69E-07	<4.36E-07	n/a	n/a	n/a	n/a	4.36E-07	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y9
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001118		E	13981-37-8	Nickel-63	uCi/g	89.0	<5.65E-05	<4.95E-05	n/a	n/a	n/a	n/a	4.95E-05	n/a	U
S09V001118		E	PU-239/240	Plutonium-239/240	uCi/g	99.6	<6.99E-07	<6.73E-07	n/a	n/a	n/a	n/a	6.73E-07	n/a	U
S09V001118		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.99E-07	<6.73E-07	n/a	n/a	n/a	n/a	6.73E-07	n/a	U
S09V001118		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.51E-06	<1.61E-06	n/a	n/a	n/a	n/a	1.61E-06	n/a	U
S09V001118		E	SR-89/90	Strontium-89/90	uCi/g	95.9	<2.74E-06	<3.71E-06	n/a	n/a	n/a	n/a	3.71E-06	n/a	U
S09V001368		W	16984-48-8	Fluoride	ug/g	102	<0.0805	1.09	n/a	n/a	n/a	n/a	0.0201	n/a	c
S09V001368		W	666-14-8	Glycolate	ug/g	104	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001368		W	71-50-1	Acetate	ug/g	108	<0.302	0.291	n/a	n/a	n/a	n/a	0.0755	n/a	J
S09V001368		W	12311-97-6	Formate	ug/g	106	<0.234	0.345	n/a	n/a	n/a	n/a	0.0584	n/a	J
S09V001368		W	16887-00-6	Chloride	ug/g	102	<0.499	1.08	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001368		W	14797-65-0	Nitrite	ug/g	107	<0.960	1.47	n/a	n/a	n/a	n/a	0.240	n/a	J
S09V001368		W	14808-79-8	Sulfate	ug/g	105	<0.935	8.10	n/a	n/a	n/a	n/a	0.234	n/a	
S09V001368		W	338-70-5	Oxalate	ug/g	104	<1.16	0.465	n/a	n/a	n/a	n/a	0.289	n/a	J
S09V001368		W	24959-67-9	Bromide	ug/g	99.8	<2.90	<0.725	n/a	n/a	n/a	n/a	0.725	n/a	U
S09V001368		W	14797-55-8	Nitrate	ug/g	103	<1.04	4.75	n/a	n/a	n/a	n/a	0.260	n/a	
S09V001368		W	14265-44-2	Phosphate	ug/g	104	<0.835	1.43	n/a	n/a	n/a	n/a	0.209	n/a	J
S09V001581		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.87E-04	n/a	n/a	n/a	n/a	1.87E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21201
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001076			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.0990	n/a	n/a	n/a	n/a	0.0990	n/a	U
S09V001076			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V001076			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.248	n/a	n/a	n/a	n/a	0.248	n/a	U
S09V001076			75-35-4	1,1-Dichloroethene	ug/kg	92.9	<0.340	<0.168	n/a	n/a	n/a	n/a	0.168	n/a	U
S09V001076			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.0891	n/a	n/a	n/a	n/a	0.0891	n/a	U
S09V001076			71-36-3	1-Butanol	ug/kg	97.3	<15.5	<7.69	n/a	n/a	n/a	n/a	7.69	n/a	U
S09V001076			108-10-1	Hexone	ug/kg	118	<1.76	<0.871	n/a	n/a	n/a	n/a	0.871	n/a	U
S09V001076			67-64-1	Acetone	ug/kg	105	<4.38	<2.17	n/a	n/a	n/a	n/a	2.17	n/a	U
S09V001076			71-43-2	Benzene	ug/kg	101	<0.320	<0.158	n/a	n/a	n/a	n/a	0.158	n/a	U
S09V001076			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V001076			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V001076			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.0891	n/a	n/a	n/a	n/a	0.0891	n/a	U
S09V001076			108-90-7	Chlorobenzene	ug/kg	97.4	<0.220	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S09V001076			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U
S09V001076			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.307	n/a	n/a	n/a	n/a	0.307	n/a	U
S09V001076			78-93-3	2-Butanone	ug/kg	112	<2.66	<1.32	n/a	n/a	n/a	n/a	1.32	n/a	U
S09V001076			75-09-2	Methylenechloride	ug/kg	n/a	0.847	<0.168	n/a	n/a	n/a	n/a	0.168	n/a	U
S09V001076			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.198	n/a	n/a	n/a	n/a	0.198	n/a	U
S09V001076			100-42-5	Styrene	ug/kg	n/a	<0.200	0.251	n/a	n/a	n/a	n/a	0.0990	n/a	J
S09V001076			108-88-3	Toluene	ug/kg	104	<0.240	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U
S09V001076			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.0693	n/a	n/a	n/a	n/a	0.0693	n/a	U
S09V001076			79-01-6	Trichloroethene	ug/kg	99.4	<0.300	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V001076			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.317	n/a	n/a	n/a	n/a	0.317	n/a	U
S09V001076			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.129	n/a	n/a	n/a	n/a	0.129	n/a	U
S09V001076			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S09V001076			110-54-3	Hexane	ug/kg	n/a	<0.440	35.9	n/a	n/a	n/a	n/a	0.218	n/a	
S09V001076			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.248	n/a	n/a	n/a	n/a	0.248	n/a	U
S09V001076			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<0.781	n/a	n/a	n/a	n/a	0.781	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21201
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001076			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.481	n/a	n/a	n/a	n/a	0.481	n/a	U
S09V001076			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.438	n/a	n/a	n/a	n/a	0.438	n/a	U
S09V001076			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<0.960	n/a	n/a	n/a	n/a	0.960	n/a	U
S09V001076			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.0990	n/a	n/a	n/a	n/a	0.0990	n/a	U
S09V001076			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.208	n/a	n/a	n/a	n/a	0.208	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21202
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001143			%WATERA	%WATER-APD	%	n/a	n/a	8.682	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001143			57-12-5	Cyanide	ug/g	99.8	<0.0370	<4.34	n/a	n/a	n/a	n/a	4.34	n/a	U
S09V001143			7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0200	n/a	n/a	n/a	n/a	0.0200	n/a	U
S09V001143			PH	pH	unitless	n/a	n/a	8.90	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001143			18496-25-8	Sulfide	ug/g	91.8	<0.180	9.44	10.1	9.79	7.14	82.5	7.17	n/a	J
S09V001151			13966-00-2	Potassium-40	uCi/g	n/a	<6.09E-06	1.05E-05	n/a	n/a	n/a	n/a	6.27E-06	39.07	J
S09V001151			10198-40-0	Cobalt-60	uCi/g	101	<2.38E-07	<2.97E-07	n/a	n/a	n/a	n/a	2.97E-07	n/a	U
S09V001151			14234-35-6	Antimony-125	uCi/g	n/a	<6.34E-07	<8.39E-07	n/a	n/a	n/a	n/a	8.39E-07	n/a	U
S09V001151			10045-97-3	Cesium-137	uCi/g	100	<3.12E-07	5.55E-07	n/a	n/a	n/a	n/a	4.04E-07	46.79	J
S09V001151			14683-23-9	Europium-152	uCi/g	n/a	<1.19E-06	<1.53E-06	n/a	n/a	n/a	n/a	1.53E-06	n/a	U
S09V001151			15585-10-1	Europium-154	uCi/g	n/a	<7.37E-07	<1.01E-06	n/a	n/a	n/a	n/a	1.01E-06	n/a	U
S09V001151			14391-16-3	Europium-155	uCi/g	n/a	<3.82E-07	<5.40E-07	n/a	n/a	n/a	n/a	5.40E-07	n/a	U
S09V001151			15092-94-1	Lead-212	uCi/g	n/a	<3.65E-07	4.64E-07	n/a	n/a	n/a	n/a	4.23E-07	41.98	J
S09V001151			14274-82-9	Thorium-228	uCi/g	n/a	<6.78E-06	<9.95E-06	n/a	n/a	n/a	n/a	9.95E-06	n/a	U
S09V001151			15065-10-8	Thorium-234	uCi/g	n/a	<2.27E-06	<3.50E-06	n/a	n/a	n/a	n/a	3.50E-06	n/a	U
S09V001151			15046-84-1	Iodine-129	uCi/g	93.6	<2.57E-07	<1.57E-07	n/a	n/a	n/a	n/a	1.57E-07	n/a	U
S09V001155		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	61.3	<77.4	<70.5	n/a	n/a	n/a	63.2	70.5	n/a	Ub
S09V001155		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<91.8	n/a	n/a	n/a	n/a	91.8	n/a	U
S09V001155		O	106-46-7	1,4-Dichlorobenzene	ug/kg	59.9	<113	<103	n/a	n/a	n/a	60.2	103	n/a	U
S09V001155		O	121-14-2	2,4-Dinitrotoluene	ug/kg	70.1	<38.1	<34.7	n/a	n/a	n/a	69.5	34.7	n/a	U
S09V001155		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<40.1	n/a	n/a	n/a	n/a	40.1	n/a	U
S09V001155		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<45.1	n/a	n/a	n/a	n/a	45.1	n/a	U
S09V001155		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<52.4	n/a	n/a	n/a	n/a	52.4	n/a	U
S09V001155		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U
S09V001155		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<46.8	n/a	n/a	n/a	n/a	46.8	n/a	U
S09V001155		O	83-32-9	Acenaphthene	ug/kg	67.5	<17.6	<16.0	n/a	n/a	n/a	70.3	16.0	n/a	U
S09V001155		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<34.4	n/a	n/a	n/a	n/a	34.4	n/a	U
S09V001155		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<44.6	n/a	n/a	n/a	n/a	44.6	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21202
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001155		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<37.5	n/a	n/a	n/a	n/a	37.5	n/a	U
S09V001155		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	746	n/a	n/a	n/a	n/a	538	n/a	J
S09V001155		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<35.6	n/a	n/a	n/a	n/a	35.6	n/a	U
S09V001155		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<45.6	n/a	n/a	n/a	n/a	45.6	n/a	U
S09V001155		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.6	<43.2	<39.4	n/a	n/a	n/a	64.1	39.4	n/a	U
S09V001155		O	95-57-8	2-Chlorophenol	ug/kg	61.1	<66.5	<60.6	n/a	n/a	n/a	62.5	60.6	n/a	U
S09V001155		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<74.2	n/a	n/a	n/a	n/a	74.2	n/a	U
S09V001155		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<46.6	n/a	n/a	n/a	n/a	46.6	n/a	U
S09V001155		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<512	n/a	n/a	n/a	n/a	512	n/a	U
S09V001155		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S09V001155		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	60.6	<58.1	<52.9	n/a	n/a	n/a	61.8	52.9	n/a	U
S09V001155		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<32.3	n/a	n/a	n/a	n/a	32.3	n/a	U
S09V001155		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<63.5	n/a	n/a	n/a	n/a	63.5	n/a	U
S09V001155		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<102	n/a	n/a	n/a	n/a	102	n/a	U
S09V001155		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<46.5	n/a	n/a	n/a	n/a	46.5	n/a	U
S09V001155		O	108-95-2	Phenol	ug/kg	62.7	<59.4	<54.1	n/a	n/a	n/a	63.0	54.1	n/a	U
S09V001155		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<57.0	n/a	n/a	n/a	n/a	57.0	n/a	U
S09V001155		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<58.9	n/a	n/a	n/a	n/a	58.9	n/a	U
S09V001155		O	100-02-7	4-Nitrophenol	ug/kg	70.3	<52.6	<47.9	n/a	n/a	n/a	69.5	47.9	n/a	U
S09V001155		O	87-86-5	Pentachlorophenol	ug/kg	71.2	<37.5	<34.2	n/a	n/a	n/a	72.1	34.2	n/a	U
S09V001155		O	129-00-0	Pyrene	ug/kg	75.6	<62.9	<57.3	n/a	n/a	n/a	75.9	57.3	n/a	U
S09V001155		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<59.2	n/a	n/a	n/a	n/a	59.2	n/a	U
S09V001155		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<98.2	n/a	n/a	n/a	n/a	98.2	n/a	U
S09V001155		O	128-37-0	BHT	ug/kg	n/a	<236	<215	n/a	n/a	n/a	n/a	215	n/a	U
S09V001155		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<166	n/a	n/a	n/a	n/a	166	n/a	U
S09V001155		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<97.1	n/a	n/a	n/a	n/a	97.1	n/a	U
S09V001155		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<509	n/a	n/a	n/a	n/a	509	n/a	U
S09V001155		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<174	n/a	n/a	n/a	n/a	174	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21202
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001155		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<419	n/a	n/a	n/a	n/a	419	n/a	U
S09V001159		W	14762-75-5	Carbon-14	uCi/g	100	<4.82E-05	<6.94E-05	n/a	n/a	n/a	n/a	6.94E-05	n/a	U
S09V001159		W	10028-17-8	Tritium	uCi/g	96.7	<1.49E-06	<4.34E-04	n/a	n/a	n/a	n/a	4.34E-04	n/a	U
S09V001163		A	7429-90-5	Aluminum	ug/g	88.4	<0.0300	6.66E+03	n/a	n/a	n/a	n/a	5.76	n/a	
S09V001163		A	7440-39-3	Barium	ug/g	88.8	<3.00E-03	61.9	n/a	n/a	n/a	n/a	0.576	n/a	
S09V001163		A	7440-41-7	Beryllium	ug/g	91.8	<1.00E-03	<0.192	n/a	n/a	n/a	n/a	0.192	n/a	U
S09V001163		A	7440-70-2	Calcium	ug/g	85.3	0.0503	6.66E+03	n/a	n/a	n/a	n/a	9.59	n/a	
S09V001163		A	7440-45-1	Cerium	ug/g	89.0	<0.0300	18.3	n/a	n/a	n/a	n/a	5.76	n/a	J
S09V001163		A	7440-48-4	Cobalt	ug/g	85.9	<0.0100	7.15	n/a	n/a	n/a	n/a	1.92	n/a	J
S09V001163		A	7440-47-3	Chromium	ug/g	86.5	<5.00E-03	11.7	n/a	n/a	n/a	n/a	0.959	n/a	
S09V001163		A	7440-50-8	Copper	ug/g	89.7	<5.00E-03	10.0	n/a	n/a	n/a	n/a	0.959	n/a	
S09V001163		A	7440-53-1	Europium	ug/g	88.8	<5.00E-03	0.986	n/a	n/a	n/a	n/a	0.959	n/a	J
S09V001163		A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	1.62E+04	n/a	n/a	n/a	n/a	0.959	n/a	
S09V001163		A	7440-09-7	Potassium	ug/g	85.0	<0.500	1.05E+03	n/a	n/a	n/a	n/a	95.9	n/a	
S09V001163		A	7439-91-0	Lanthanum	ug/g	89.1	<3.00E-03	8.44	n/a	n/a	n/a	n/a	0.576	n/a	
S09V001163		A	7439-93-2	Lithium	ug/g	85.0	<3.00E-03	6.96	n/a	n/a	n/a	n/a	0.576	n/a	
S09V001163		A	7439-95-4	Magnesium	ug/g	83.9	<0.0500	4.08E+03	n/a	n/a	n/a	n/a	9.59	n/a	
S09V001163		A	7439-96-5	Manganese	ug/g	84.9	<3.00E-03	265	n/a	n/a	n/a	n/a	0.576	n/a	
S09V001163		A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<3.84	n/a	n/a	n/a	n/a	3.84	n/a	U
S09V001163		A	7440-23-5	Sodium	ug/g	81.1	<0.100	218	n/a	n/a	n/a	n/a	19.2	n/a	b
S09V001163		A	7440-00-8	Neodymium	ug/g	92.1	<0.0100	17.2	n/a	n/a	n/a	n/a	1.92	n/a	J
S09V001163		A	7723-14-0	Phosphorus	ug/g	91.6	<0.0500	569	n/a	n/a	n/a	n/a	9.59	n/a	
S09V001163		A	7704-34-9	Sulfur	ug/g	89.8	<0.100	80.4	n/a	n/a	n/a	n/a	19.2	n/a	J
S09V001163		A	7440-21-3	Silicon	ug/g	77.2	0.0302	925	n/a	n/a	n/a	n/a	5.76	n/a	abc
S09V001163		A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	30.5	n/a	n/a	n/a	n/a	0.576	n/a	
S09V001163		A	7440-32-6	Titanium	ug/g	105	<5.00E-03	1.03E+03	n/a	n/a	n/a	n/a	0.959	n/a	
S09V001163		A	7440-61-1	Uranium	ug/g	97.0	<0.100	<19.2	n/a	n/a	n/a	n/a	19.2	n/a	U
S09V001163		A	7440-33-7	Tungsten	ug/g	88.4	<0.200	62.1	n/a	n/a	n/a	n/a	38.4	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21202
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001163		A	7440-65-5	Yttrium	ug/g	85.6	<2.00E-03	6.67	n/a	n/a	n/a	n/a	0.384	n/a	
S09V001163		A	7440-66-6	Zinc	ug/g	86.3	<5.00E-03	29.9	n/a	n/a	n/a	n/a	0.959	n/a	
S09V001163		A	7440-67-7	Zirconium	ug/g	87.8	<5.00E-03	10.9	n/a	n/a	n/a	n/a	0.959	n/a	
S09V001163		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.69E-05	n/a	n/a	n/a	n/a	2.69E-05	n/a	U
S09V001163		A	TH-232	Thorium-232	ug/g	99.7	6.60E-05	2.45	n/a	n/a	n/a	n/a	6.52E-04	n/a	
S09V001163		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.50E-04	n/a	n/a	n/a	n/a	3.84E-05	n/a	J
S09V001163		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	2.94E-05	n/a	n/a	n/a	n/a	1.92E-05	n/a	J
S09V001163		A	15117-96-1	Uranium-235	ug/g	92.4	2.57E-07	3.56E-03	n/a	n/a	n/a	n/a	4.22E-05	n/a	
S09V001163		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.53E-05	n/a	n/a	n/a	n/a	1.53E-05	n/a	U
S09V001163		A	U-238	Uranium-238	ug/g	97.2	3.82E-05	0.523	n/a	n/a	n/a	n/a	2.11E-03	n/a	
S09V001163		A	7440-22-4	Silver	ug/g	105	2.07E-04	0.107	n/a	n/a	n/a	n/a	0.0307	n/a	BJ
S09V001163		A	7440-38-2	Arsenic	ug/g	92.6	<8.40E-04	2.49	n/a	n/a	n/a	n/a	0.161	n/a	
S09V001163		A	7440-43-9	Cadmium	ug/g	96.6	<6.00E-04	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S09V001163		A	7439-92-1	Lead	ug/g	102	<6.20E-03	3.56	n/a	n/a	n/a	n/a	1.19	n/a	J
S09V001163		A	7440-36-0	Antimony	ug/g	101	<8.80E-04	<0.169	n/a	n/a	n/a	n/a	0.169	n/a	U
S09V001163		A	7782-49-2	Selenium	ug/g	83.0	<0.0122	<2.34	n/a	n/a	n/a	n/a	2.34	n/a	U
S09V001163		A	7440-28-0	Thallium	ug/g	99.3	6.64E-05	0.0778	n/a	n/a	n/a	n/a	0.0115	n/a	BJ
S09V001163		A	7440-62-2	Vanadium	ug/g	94.1	<4.80E-04	36.4	n/a	n/a	n/a	n/a	0.921	n/a	
S09V001163		A	7440-02-0	Nickel	ug/g	97.8	<2.40E-03	14.8	n/a	n/a	n/a	n/a	0.460	n/a	
S09V001167		S	14798-03-9	Ammonium	ug/g	97.8	<0.120	1.40	n/a	n/a	n/a	n/a	0.467	n/a	J
S09V001171		A	14133-76-7	Technetium-99	ug/g	97.3	<6.00E-06	<1.14E-03	n/a	n/a	n/a	n/a	1.14E-03	n/a	U
S09V001171		A	SN-117	Tin-117	ug/g	99.3	<2.20E-04	<0.0419	n/a	n/a	n/a	n/a	0.0419	n/a	U
S09V001171		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.62E-04	n/a	n/a	n/a	n/a	7.62E-04	n/a	U
S09V001175		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.69E-07	<4.11E-07	n/a	n/a	n/a	n/a	4.11E-07	n/a	U
S09V001175		E	14596-10-2	Americium-241	uCi/g	101	<1.17E-06	<1.03E-06	n/a	n/a	n/a	n/a	1.03E-06	n/a	U
S09V001175		E	15510-73-3	Curium-242	uCi/g	n/a	<4.69E-07	<4.11E-07	n/a	n/a	n/a	n/a	4.11E-07	n/a	U
S09V001175		E	13981-37-8	Nickel-63	uCi/g	89.0	<5.65E-05	<4.84E-05	n/a	n/a	n/a	n/a	4.84E-05	n/a	U
S09V001175		E	PU-239/240	Plutonium-239/240	uCi/g	99.6	<6.99E-07	<5.46E-07	n/a	n/a	n/a	n/a	5.46E-07	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21202
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001175		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.99E-07	<5.46E-07	n/a	n/a	n/a	n/a	5.46E-07	n/a	U
S09V001175		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.51E-06	<1.42E-06	n/a	n/a	n/a	n/a	1.42E-06	n/a	U
S09V001175		E	SR-89/90	Strontium-89/90	uCi/g	95.9	<2.74E-06	<1.95E-06	n/a	n/a	n/a	n/a	1.95E-06	n/a	U
S09V001369		W	16984-48-8	Fluoride	ug/g	101	<0.0805	1.64	1.76	1.70	7.40	n/a	0.0201	n/a	
S09V001369		W	666-14-8	Glycolate	ug/g	104	<0.468	<0.117	<0.117	n/a	n/a	n/a	0.117	n/a	U
S09V001369		W	71-50-1	Acetate	ug/g	108	<0.302	<0.0753	<0.0754	n/a	n/a	n/a	0.0753	n/a	U
S09V001369		W	12311-97-6	Formate	ug/g	106	0.270	0.491	0.428	0.459	13.8	n/a	0.0583	n/a	BJ
S09V001369		W	16887-00-6	Chloride	ug/g	101	<0.499	1.20	1.09	1.14	9.96	n/a	0.124	n/a	
S09V001369		W	14797-65-0	Nitrite	ug/g	105	<0.960	0.465	0.416	0.441	11.1	n/a	0.240	n/a	J
S09V001369		W	14808-79-8	Sulfate	ug/g	104	<0.935	17.9	18.3	18.1	1.91	n/a	0.233	n/a	
S09V001369		W	338-70-5	Oxalate	ug/g	103	<1.16	0.328	0.393	0.361	18.1	n/a	0.288	n/a	J
S09V001369		W	24959-67-9	Bromide	ug/g	99.9	<2.90	<0.724	<0.724	n/a	n/a	n/a	0.724	n/a	U
S09V001369		W	14797-55-8	Nitrate	ug/g	102	<1.04	4.08	4.11	4.09	0.758	n/a	0.259	n/a	
S09V001369		W	14265-44-2	Phosphate	ug/g	103	<0.835	1.16	1.21	1.19	4.14	n/a	0.208	n/a	J
S09V001582		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.88E-04	n/a	n/a	n/a	n/a	1.88E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21204
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001119			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.156	n/a	n/a	n/a	n/a	0.156	n/a	U
S09V001119			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.297	n/a	n/a	n/a	n/a	0.297	n/a	U
S09V001119			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.391	n/a	n/a	n/a	n/a	0.391	n/a	U
S09V001119			75-35-4	1,1-Dichloroethene	ug/kg	92.9	<0.340	<0.266	n/a	n/a	n/a	n/a	0.266	n/a	U
S09V001119			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.141	n/a	n/a	n/a	n/a	0.141	n/a	U
S09V001119			71-36-3	1-Butanol	ug/kg	97.3	<15.5	<12.1	n/a	n/a	n/a	n/a	12.1	n/a	U
S09V001119			108-10-1	Hexone	ug/kg	118	<1.76	<1.38	n/a	n/a	n/a	n/a	1.38	n/a	U
S09V001119			67-64-1	Acetone	ug/kg	105	<4.38	<3.42	n/a	n/a	n/a	n/a	3.42	n/a	U
S09V001119			71-43-2	Benzene	ug/kg	101	<0.320	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V001119			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.234	n/a	n/a	n/a	n/a	0.234	n/a	U
S09V001119			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.234	n/a	n/a	n/a	n/a	0.234	n/a	U
S09V001119			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.141	n/a	n/a	n/a	n/a	0.141	n/a	U
S09V001119			108-90-7	Chlorobenzene	ug/kg	97.4	<0.220	<0.172	n/a	n/a	n/a	n/a	0.172	n/a	U
S09V001119			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V001119			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.484	n/a	n/a	n/a	n/a	0.484	n/a	U
S09V001119			78-93-3	2-Butanone	ug/kg	112	<2.66	<2.08	n/a	n/a	n/a	n/a	2.08	n/a	U
S09V001119			75-09-2	Methylenechloride	ug/kg	n/a	0.847	0.488	n/a	n/a	n/a	n/a	0.266	n/a	BJ
S09V001119			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.312	n/a	n/a	n/a	n/a	0.312	n/a	U
S09V001119			100-42-5	Styrene	ug/kg	n/a	<0.200	0.320	n/a	n/a	n/a	n/a	0.156	n/a	J
S09V001119			108-88-3	Toluene	ug/kg	104	<0.240	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V001119			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S09V001119			79-01-6	Trichloroethene	ug/kg	99.4	<0.300	<0.234	n/a	n/a	n/a	n/a	0.234	n/a	U
S09V001119			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S09V001119			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.203	n/a	n/a	n/a	n/a	0.203	n/a	U
S09V001119			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.281	n/a	n/a	n/a	n/a	0.281	n/a	U
S09V001119			110-54-3	Hexane	ug/kg	n/a	<0.440	15.6	n/a	n/a	n/a	n/a	0.344	n/a	
S09V001119			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.391	n/a	n/a	n/a	n/a	0.391	n/a	U
S09V001119			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.23	n/a	n/a	n/a	n/a	1.23	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21204
Sample Depth: 43.5-45.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001119			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.759	n/a	n/a	n/a	n/a	0.759	n/a	U
S09V001119			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.691	n/a	n/a	n/a	n/a	0.691	n/a	U
S09V001119			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.52	n/a	n/a	n/a	n/a	1.52	n/a	U
S09V001119			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.156	n/a	n/a	n/a	n/a	0.156	n/a	U
S09V001119			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.328	n/a	n/a	n/a	n/a	0.328	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21205
Sample Depth: 92-94

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001144			%WATERA	%WATER-APD	%	n/a	n/a	3.502	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001144			57-12-5	Cyanide	ug/g	99.8	<0.0370	<4.41	<4.43	n/a	n/a	101	4.41	n/a	U
S09V001144			7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S09V001144			PH	pH	unitless	n/a	n/a	9.24	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001144			18496-25-8	Sulfide	ug/g	91.8	<0.180	<7.14	n/a	n/a	n/a	n/a	7.14	n/a	U
S09V001152			13966-00-2	Potassium-40	uCi/g	n/a	<6.09E-06	1.18E-05	n/a	n/a	n/a	n/a	6.45E-06	36.17	J
S09V001152			10198-40-0	Cobalt-60	uCi/g	101	<2.38E-07	<3.42E-07	n/a	n/a	n/a	n/a	3.42E-07	n/a	U
S09V001152			14234-35-6	Antimony-125	uCi/g	n/a	<6.34E-07	<8.66E-07	n/a	n/a	n/a	n/a	8.66E-07	n/a	U
S09V001152			10045-97-3	Cesium-137	uCi/g	100	<3.12E-07	<4.28E-07	n/a	n/a	n/a	n/a	4.28E-07	n/a	U
S09V001152			14683-23-9	Europium-152	uCi/g	n/a	<1.19E-06	<1.47E-06	n/a	n/a	n/a	n/a	1.47E-06	n/a	U
S09V001152			15585-10-1	Europium-154	uCi/g	n/a	<7.37E-07	<9.96E-07	n/a	n/a	n/a	n/a	9.96E-07	n/a	U
S09V001152			14391-16-3	Europium-155	uCi/g	n/a	<3.82E-07	<5.29E-07	n/a	n/a	n/a	n/a	5.29E-07	n/a	U
S09V001152			15092-94-1	Lead-212	uCi/g	n/a	<3.65E-07	6.64E-07	n/a	n/a	n/a	n/a	3.87E-07	27.80	
S09V001152			14733-03-0	Bismuth-214	uCi/g	n/a	<5.74E-07	7.78E-07	n/a	n/a	n/a	n/a	6.63E-07	49.63	J
S09V001152			14274-82-9	Thorium-228	uCi/g	n/a	<6.78E-06	<9.93E-06	n/a	n/a	n/a	n/a	9.93E-06	n/a	U
S09V001152			15065-10-8	Thorium-234	uCi/g	n/a	<2.27E-06	<3.38E-06	n/a	n/a	n/a	n/a	3.38E-06	n/a	U
S09V001152			15046-84-1	Iodine-129	uCi/g	93.6	<2.57E-07	<1.67E-07	n/a	n/a	n/a	n/a	1.67E-07	n/a	U
S09V001156		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	61.3	<77.4	<76.9	n/a	n/a	n/a	n/a	76.9	n/a	U
S09V001156		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S09V001156		O	106-46-7	1,4-Dichlorobenzene	ug/kg	59.9	<113	<113	n/a	n/a	n/a	n/a	113	n/a	U
S09V001156		O	121-14-2	2,4-Dinitrotoluene	ug/kg	70.1	<38.1	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S09V001156		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.7	n/a	n/a	n/a	n/a	43.7	n/a	U
S09V001156		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S09V001156		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.1	n/a	n/a	n/a	n/a	57.1	n/a	U
S09V001156		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.4	n/a	n/a	n/a	n/a	53.4	n/a	U
S09V001156		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S09V001156		O	83-32-9	Acenaphthene	ug/kg	67.5	<17.6	<17.5	n/a	n/a	n/a	n/a	17.5	n/a	U
S09V001156		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21205
Sample Depth: 92-94

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001156		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S09V001156		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.9	n/a	n/a	n/a	n/a	40.9	n/a	U
S09V001156		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	2.93E+03	n/a	n/a	n/a	n/a	586	n/a	J
S09V001156		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S09V001156		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S09V001156		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.6	<43.2	<42.9	n/a	n/a	n/a	n/a	42.9	n/a	U
S09V001156		O	95-57-8	2-Chlorophenol	ug/kg	61.1	<66.5	<66.1	n/a	n/a	n/a	n/a	66.1	n/a	U
S09V001156		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.9	n/a	n/a	n/a	n/a	80.9	n/a	U
S09V001156		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S09V001156		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<559	n/a	n/a	n/a	n/a	559	n/a	U
S09V001156		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U
S09V001156		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	60.6	<58.1	<57.7	n/a	n/a	n/a	n/a	57.7	n/a	U
S09V001156		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.2	n/a	n/a	n/a	n/a	35.2	n/a	U
S09V001156		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.3	n/a	n/a	n/a	n/a	69.3	n/a	U
S09V001156		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V001156		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U
S09V001156		O	108-95-2	Phenol	ug/kg	62.7	<59.4	<59.0	n/a	n/a	n/a	n/a	59.0	n/a	U
S09V001156		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S09V001156		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.2	n/a	n/a	n/a	n/a	64.2	n/a	U
S09V001156		O	100-02-7	4-Nitrophenol	ug/kg	70.3	<52.6	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S09V001156		O	87-86-5	Pentachlorophenol	ug/kg	71.2	<37.5	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S09V001156		O	129-00-0	Pyrene	ug/kg	75.6	<62.9	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S09V001156		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.6	n/a	n/a	n/a	n/a	64.6	n/a	U
S09V001156		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V001156		O	128-37-0	BHT	ug/kg	n/a	<236	<234	n/a	n/a	n/a	n/a	234	n/a	U
S09V001156		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<181	n/a	n/a	n/a	n/a	181	n/a	U
S09V001156		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001156		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<556	n/a	n/a	n/a	n/a	556	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21205
Sample Depth: 92-94

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001156		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S09V001156		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<457	n/a	n/a	n/a	n/a	457	n/a	U
S09V001160		W	14762-75-5	Carbon-14	uCi/g	100	<4.82E-05	1.29E-04	n/a	n/a	n/a	n/a	5.20E-05	44.15	J
S09V001160		W	10028-17-8	Tritium	uCi/g	96.7	<1.49E-06	<3.80E-04	n/a	n/a	n/a	n/a	3.80E-04	n/a	U
S09V001164		A	7429-90-5	Aluminum	ug/g	88.4	<0.0300	5.33E+03	n/a	n/a	n/a	n/a	5.89	n/a	
S09V001164		A	7440-39-3	Barium	ug/g	88.8	<3.00E-03	101	n/a	n/a	n/a	n/a	0.589	n/a	
S09V001164		A	7440-41-7	Beryllium	ug/g	91.8	<1.00E-03	<0.196	n/a	n/a	n/a	n/a	0.196	n/a	U
S09V001164		A	7440-70-2	Calcium	ug/g	85.3	0.0503	5.30E+03	n/a	n/a	n/a	n/a	9.82	n/a	
S09V001164		A	7440-45-1	Cerium	ug/g	89.0	<0.0300	14.0	n/a	n/a	n/a	n/a	5.89	n/a	J
S09V001164		A	7440-48-4	Cobalt	ug/g	85.9	<0.0100	5.85	n/a	n/a	n/a	n/a	1.96	n/a	J
S09V001164		A	7440-47-3	Chromium	ug/g	86.5	<5.00E-03	11.5	n/a	n/a	n/a	n/a	0.982	n/a	
S09V001164		A	7440-50-8	Copper	ug/g	89.7	<5.00E-03	7.56	n/a	n/a	n/a	n/a	0.982	n/a	J
S09V001164		A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	1.27E+04	n/a	n/a	n/a	n/a	0.982	n/a	
S09V001164		A	7440-09-7	Potassium	ug/g	85.0	<0.500	965	n/a	n/a	n/a	n/a	98.2	n/a	J
S09V001164		A	7439-91-0	Lanthanum	ug/g	89.1	<3.00E-03	6.90	n/a	n/a	n/a	n/a	0.589	n/a	
S09V001164		A	7439-93-2	Lithium	ug/g	85.0	<3.00E-03	7.67	n/a	n/a	n/a	n/a	0.589	n/a	
S09V001164		A	7439-95-4	Magnesium	ug/g	83.9	<0.0500	3.54E+03	n/a	n/a	n/a	n/a	9.82	n/a	
S09V001164		A	7439-96-5	Manganese	ug/g	84.9	<3.00E-03	386	n/a	n/a	n/a	n/a	0.589	n/a	
S09V001164		A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<3.93	n/a	n/a	n/a	n/a	3.93	n/a	U
S09V001164		A	7440-23-5	Sodium	ug/g	81.1	<0.100	180	n/a	n/a	n/a	n/a	19.6	n/a	Jb
S09V001164		A	7440-00-8	Neodymium	ug/g	92.1	<0.0100	13.9	n/a	n/a	n/a	n/a	1.96	n/a	J
S09V001164		A	7723-14-0	Phosphorus	ug/g	91.6	<0.0500	421	n/a	n/a	n/a	n/a	9.82	n/a	
S09V001164		A	7704-34-9	Sulfur	ug/g	89.8	<0.100	67.6	n/a	n/a	n/a	n/a	19.6	n/a	J
S09V001164		A	7440-21-3	Silicon	ug/g	77.2	0.0302	928	n/a	n/a	n/a	n/a	5.89	n/a	abc
S09V001164		A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	22.4	n/a	n/a	n/a	n/a	0.589	n/a	
S09V001164		A	7440-32-6	Titanium	ug/g	105	<5.00E-03	709	n/a	n/a	n/a	n/a	0.982	n/a	
S09V001164		A	7440-61-1	Uranium	ug/g	97.0	<0.100	<19.6	n/a	n/a	n/a	n/a	19.6	n/a	U
S09V001164		A	7440-65-5	Yttrium	ug/g	85.6	<2.00E-03	4.51	n/a	n/a	n/a	n/a	0.393	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21205
Sample Depth: 92-94

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001164		A	7440-66-6	Zinc	ug/g	86.3	<5.00E-03	25.1	n/a	n/a	n/a	n/a	0.982	n/a	
S09V001164		A	7440-67-7	Zirconium	ug/g	87.8	<5.00E-03	5.61	n/a	n/a	n/a	n/a	0.982	n/a	J
S09V001164		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.75E-05	n/a	n/a	n/a	n/a	2.75E-05	n/a	U
S09V001164		A	TH-232	Thorium-232	ug/g	99.7	6.60E-05	2.66	n/a	n/a	n/a	n/a	6.68E-04	n/a	
S09V001164		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	7.56E-05	n/a	n/a	n/a	n/a	3.93E-05	n/a	J
S09V001164		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	2.06E-05	n/a	n/a	n/a	n/a	1.96E-05	n/a	J
S09V001164		A	15117-96-1	Uranium-235	ug/g	92.4	2.57E-07	2.81E-03	n/a	n/a	n/a	n/a	4.32E-05	n/a	
S09V001164		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.57E-05	n/a	n/a	n/a	n/a	1.57E-05	n/a	U
S09V001164		A	U-238	Uranium-238	ug/g	97.2	3.82E-05	0.426	n/a	n/a	n/a	n/a	2.16E-03	n/a	
S09V001164		A	7440-22-4	Silver	ug/g	105	2.07E-04	0.0983	n/a	n/a	n/a	n/a	0.0314	n/a	BJ
S09V001164		A	7440-38-2	Arsenic	ug/g	92.6	<8.40E-04	2.88	n/a	n/a	n/a	n/a	0.165	n/a	
S09V001164		A	7440-43-9	Cadmium	ug/g	96.6	<6.00E-04	<0.118	n/a	n/a	n/a	n/a	0.118	n/a	U
S09V001164		A	7439-92-1	Lead	ug/g	102	<6.20E-03	3.16	n/a	n/a	n/a	n/a	1.22	n/a	J
S09V001164		A	7440-36-0	Antimony	ug/g	101	<8.80E-04	<0.173	n/a	n/a	n/a	n/a	0.173	n/a	U
S09V001164		A	7782-49-2	Selenium	ug/g	83.0	<0.0122	<2.40	n/a	n/a	n/a	n/a	2.40	n/a	U
S09V001164		A	7440-28-0	Thallium	ug/g	99.3	6.64E-05	0.0683	n/a	n/a	n/a	n/a	0.0118	n/a	BJ
S09V001164		A	7440-62-2	Vanadium	ug/g	94.1	<4.80E-04	32.3	n/a	n/a	n/a	n/a	0.943	n/a	
S09V001164		A	7440-02-0	Nickel	ug/g	97.8	<2.40E-03	10.6	n/a	n/a	n/a	n/a	0.472	n/a	
S09V001168		S	14798-03-9	Ammonium	ug/g	97.8	<0.120	<0.472	n/a	n/a	n/a	n/a	0.472	n/a	U
S09V001172		A	14133-76-7	Technetium-99	ug/g	97.3	<6.00E-06	<1.15E-03	n/a	n/a	n/a	n/a	1.15E-03	n/a	U
S09V001172		A	SN-117	Tin-117	ug/g	99.3	<2.20E-04	<0.0422	n/a	n/a	n/a	n/a	0.0422	n/a	U
S09V001172		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.67E-04	n/a	n/a	n/a	n/a	7.67E-04	n/a	U
S09V001176		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.69E-07	<4.25E-07	n/a	n/a	n/a	n/a	4.25E-07	n/a	U
S09V001176		E	14596-10-2	Americium-241	uCi/g	101	<1.17E-06	<1.06E-06	n/a	n/a	n/a	n/a	1.06E-06	n/a	U
S09V001176		E	15510-73-3	Curium-242	uCi/g	n/a	<4.69E-07	<4.25E-07	n/a	n/a	n/a	n/a	4.25E-07	n/a	U
S09V001176		E	13981-37-8	Nickel-63	uCi/g	89.0	<5.65E-05	<4.86E-05	n/a	n/a	n/a	n/a	4.86E-05	n/a	U
S09V001176		E	PU-239/240	Plutonium-239/240	uCi/g	99.6	<6.99E-07	<5.64E-07	n/a	n/a	n/a	n/a	5.64E-07	n/a	U
S09V001176		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.99E-07	<5.64E-07	n/a	n/a	n/a	n/a	5.64E-07	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21205
Sample Depth: 92-94

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001176		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.51E-06	<2.53E-06	n/a	n/a	n/a	n/a	2.53E-06	n/a	U
S09V001176		E	SR-89/90	Strontium-89/90	uCi/g	95.9	<2.74E-06	<1.84E-06	n/a	n/a	n/a	n/a	1.84E-06	n/a	U
S09V001370		W	16984-48-8	Fluoride	ug/g	101	<0.0805	1.19	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001370		W	666-14-8	Glycolate	ug/g	104	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001370		W	71-50-1	Acetate	ug/g	108	<0.302	<0.0754	n/a	n/a	n/a	n/a	0.0754	n/a	U
S09V001370		W	12311-97-6	Formate	ug/g	106	0.270	0.409	n/a	n/a	n/a	n/a	0.0583	n/a	BJ
S09V001370		W	16887-00-6	Chloride	ug/g	101	<0.499	1.30	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001370		W	14797-65-0	Nitrite	ug/g	105	<0.960	0.302	n/a	n/a	n/a	n/a	0.240	n/a	J
S09V001370		W	14808-79-8	Sulfate	ug/g	104	<0.935	20.0	n/a	n/a	n/a	n/a	0.234	n/a	
S09V001370		W	338-70-5	Oxalate	ug/g	103	<1.16	0.776	n/a	n/a	n/a	n/a	0.288	n/a	J
S09V001370		W	24959-67-9	Bromide	ug/g	99.9	<2.90	<0.724	n/a	n/a	n/a	n/a	0.724	n/a	U
S09V001370		W	14797-55-8	Nitrate	ug/g	102	<1.04	1.94	n/a	n/a	n/a	n/a	0.260	n/a	J
S09V001370		W	14265-44-2	Phosphate	ug/g	103	<0.835	<0.209	n/a	n/a	n/a	n/a	0.209	n/a	U
S09V001583		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<2.03E-04	n/a	n/a	n/a	n/a	2.03E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21207
Sample Depth: 92-94

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001120			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S09V001120			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.275	n/a	n/a	n/a	n/a	0.275	n/a	U
S09V001120			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.362	n/a	n/a	n/a	n/a	0.362	n/a	U
S09V001120			75-35-4	1,1-Dichloroethene	ug/kg	95.4	<0.340	<0.246	n/a	n/a	n/a	n/a	0.246	n/a	U
S09V001120			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.130	n/a	n/a	n/a	n/a	0.130	n/a	U
S09V001120			71-36-3	1-Butanol	ug/kg	129	<15.5	<11.3	n/a	n/a	n/a	n/a	11.3	n/a	U
S09V001120			108-10-1	Hexone	ug/kg	128	<1.76	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	Ub
S09V001120			67-64-1	Acetone	ug/kg	128	<4.38	<3.17	n/a	n/a	n/a	n/a	3.17	n/a	Ub
S09V001120			71-43-2	Benzene	ug/kg	94.3	<0.320	<0.232	n/a	n/a	n/a	n/a	0.232	n/a	U
S09V001120			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.217	n/a	n/a	n/a	n/a	0.217	n/a	U
S09V001120			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.217	n/a	n/a	n/a	n/a	0.217	n/a	U
S09V001120			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.130	n/a	n/a	n/a	n/a	0.130	n/a	U
S09V001120			108-90-7	Chlorobenzene	ug/kg	98.5	<0.220	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V001120			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.174	n/a	n/a	n/a	n/a	0.174	n/a	U
S09V001120			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.449	n/a	n/a	n/a	n/a	0.449	n/a	U
S09V001120			78-93-3	2-Butanone	ug/kg	120	<2.66	<1.93	n/a	n/a	n/a	n/a	1.93	n/a	Ub
S09V001120			75-09-2	Methylenechloride	ug/kg	n/a	3.23	2.19	n/a	n/a	n/a	n/a	0.246	n/a	BJ
S09V001120			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.290	n/a	n/a	n/a	n/a	0.290	n/a	U
S09V001120			108-88-3	Toluene	ug/kg	95.0	<0.240	<0.174	n/a	n/a	n/a	n/a	0.174	n/a	U
S09V001120			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.101	n/a	n/a	n/a	n/a	0.101	n/a	U
S09V001120			79-01-6	Trichloroethene	ug/kg	90.9	<0.300	<0.217	n/a	n/a	n/a	n/a	0.217	n/a	U
S09V001120			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.464	n/a	n/a	n/a	n/a	0.464	n/a	U
S09V001120			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V001120			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.261	n/a	n/a	n/a	n/a	0.261	n/a	U
S09V001120			110-54-3	Hexane	ug/kg	n/a	<0.440	8.89	n/a	n/a	n/a	n/a	0.319	n/a	
S09V001120			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.362	n/a	n/a	n/a	n/a	0.362	n/a	U
S09V001120			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V001120			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.704	n/a	n/a	n/a	n/a	0.704	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21207
Sample Depth: 92-94

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001120			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.641	n/a	n/a	n/a	n/a	0.641	n/a	U
S09V001120			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.41	n/a	n/a	n/a	n/a	1.41	n/a	U
S09V001120			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S09V001120			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.304	n/a	n/a	n/a	n/a	0.304	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21208
Sample Depth: 97-99

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001145			%WATERA	%WATER-APD	%	n/a	n/a	4.775	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001145			57-12-5	Cyanide	ug/g	99.8	<0.0370	<4.41	n/a	n/a	n/a	n/a	4.41	n/a	U
S09V001145			7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0183	n/a	n/a	n/a	n/a	0.0183	n/a	U
S09V001145			PH	pH	unitless	n/a	n/a	9.14	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001145			18496-25-8	Sulfide	ug/g	91.8	<0.180	12.9	n/a	n/a	n/a	n/a	7.40	n/a	J
S09V001153			13966-00-2	Potassium-40	uCi/g	n/a	<6.09E-06	1.15E-05	n/a	n/a	n/a	n/a	6.87E-06	39.18	J
S09V001153			10198-40-0	Cobalt-60	uCi/g	101	<2.38E-07	<4.11E-07	n/a	n/a	n/a	n/a	4.11E-07	n/a	U
S09V001153			14234-35-6	Antimony-125	uCi/g	n/a	<6.34E-07	<9.33E-07	n/a	n/a	n/a	n/a	9.33E-07	n/a	U
S09V001153			10045-97-3	Cesium-137	uCi/g	100	<3.12E-07	<4.29E-07	n/a	n/a	n/a	n/a	4.29E-07	n/a	U
S09V001153			14683-23-9	Europium-152	uCi/g	n/a	<1.19E-06	<1.76E-06	n/a	n/a	n/a	n/a	1.76E-06	n/a	U
S09V001153			15585-10-1	Europium-154	uCi/g	n/a	<7.37E-07	<1.09E-06	n/a	n/a	n/a	n/a	1.09E-06	n/a	U
S09V001153			14391-16-3	Europium-155	uCi/g	n/a	<3.82E-07	<5.86E-07	n/a	n/a	n/a	n/a	5.86E-07	n/a	U
S09V001153			14274-82-9	Thorium-228	uCi/g	n/a	<6.78E-06	<1.06E-05	n/a	n/a	n/a	n/a	1.06E-05	n/a	U
S09V001153			15065-10-8	Thorium-234	uCi/g	n/a	<2.27E-06	<3.86E-06	n/a	n/a	n/a	n/a	3.86E-06	n/a	U
S09V001153			15046-84-1	Iodine-129	uCi/g	93.6	<2.57E-07	<1.61E-07	n/a	n/a	n/a	n/a	1.61E-07	n/a	U
S09V001157		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	61.3	<77.4	<74.5	n/a	n/a	n/a	n/a	74.5	n/a	U
S09V001157		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<97.0	n/a	n/a	n/a	n/a	97.0	n/a	U
S09V001157		O	106-46-7	1,4-Dichlorobenzene	ug/kg	59.9	<113	<109	n/a	n/a	n/a	n/a	109	n/a	U
S09V001157		O	121-14-2	2,4-Dinitrotoluene	ug/kg	70.1	<38.1	<36.7	n/a	n/a	n/a	n/a	36.7	n/a	U
S09V001157		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<42.4	n/a	n/a	n/a	n/a	42.4	n/a	U
S09V001157		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S09V001157		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<55.4	n/a	n/a	n/a	n/a	55.4	n/a	U
S09V001157		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<51.7	n/a	n/a	n/a	n/a	51.7	n/a	U
S09V001157		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S09V001157		O	83-32-9	Acenaphthene	ug/kg	67.5	<17.6	<17.0	n/a	n/a	n/a	n/a	17.0	n/a	U
S09V001157		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.4	n/a	n/a	n/a	n/a	36.4	n/a	U
S09V001157		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.1	n/a	n/a	n/a	n/a	47.1	n/a	U
S09V001157		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.7	n/a	n/a	n/a	n/a	39.7	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21208
Sample Depth: 97-99

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001157		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<568	n/a	n/a	n/a	n/a	568	n/a	U
S09V001157		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S09V001157		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<48.2	n/a	n/a	n/a	n/a	48.2	n/a	U
S09V001157		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.6	<43.2	<41.6	n/a	n/a	n/a	n/a	41.6	n/a	U
S09V001157		O	95-57-8	2-Chlorophenol	ug/kg	61.1	<66.5	<64.0	n/a	n/a	n/a	n/a	64.0	n/a	U
S09V001157		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<78.4	n/a	n/a	n/a	n/a	78.4	n/a	U
S09V001157		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S09V001157		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<542	n/a	n/a	n/a	n/a	542	n/a	U
S09V001157		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<45.9	n/a	n/a	n/a	n/a	45.9	n/a	U
S09V001157		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	60.6	<58.1	<56.0	n/a	n/a	n/a	n/a	56.0	n/a	U
S09V001157		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.1	n/a	n/a	n/a	n/a	34.1	n/a	U
S09V001157		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<67.1	n/a	n/a	n/a	n/a	67.1	n/a	U
S09V001157		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V001157		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S09V001157		O	108-95-2	Phenol	ug/kg	62.7	<59.4	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S09V001157		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<60.3	n/a	n/a	n/a	n/a	60.3	n/a	U
S09V001157		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S09V001157		O	100-02-7	4-Nitrophenol	ug/kg	70.3	<52.6	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U
S09V001157		O	87-86-5	Pentachlorophenol	ug/kg	71.2	<37.5	<36.1	n/a	n/a	n/a	n/a	36.1	n/a	U
S09V001157		O	129-00-0	Pyrene	ug/kg	75.6	<62.9	<60.6	n/a	n/a	n/a	n/a	60.6	n/a	U
S09V001157		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S09V001157		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V001157		O	128-37-0	BHT	ug/kg	n/a	<236	<227	n/a	n/a	n/a	n/a	227	n/a	U
S09V001157		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<176	n/a	n/a	n/a	n/a	176	n/a	U
S09V001157		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U
S09V001157		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<538	n/a	n/a	n/a	n/a	538	n/a	U
S09V001157		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<184	n/a	n/a	n/a	n/a	184	n/a	U
S09V001157		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<443	n/a	n/a	n/a	n/a	443	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21208
Sample Depth: 97-99

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001161		W	14762-75-5	Carbon-14	uCi/g	100	<4.82E-05	2.69E-04	n/a	n/a	n/a	n/a	5.04E-05	23.40	
S09V001161		W	10028-17-8	Tritium	uCi/g	96.7	<1.49E-06	<3.94E-04	n/a	n/a	n/a	n/a	3.94E-04	n/a	U
S09V001165		A	7429-90-5	Aluminum	ug/g	88.4	<0.0300	6.30E+03	n/a	n/a	n/a	n/a	5.76	n/a	
S09V001165		A	7440-39-3	Barium	ug/g	88.8	<3.00E-03	63.2	n/a	n/a	n/a	n/a	0.576	n/a	
S09V001165		A	7440-41-7	Beryllium	ug/g	91.8	<1.00E-03	<0.192	n/a	n/a	n/a	n/a	0.192	n/a	U
S09V001165		A	7440-70-2	Calcium	ug/g	85.3	0.0503	9.08E+03	n/a	n/a	n/a	n/a	9.60	n/a	
S09V001165		A	7440-45-1	Cerium	ug/g	89.0	<0.0300	21.2	n/a	n/a	n/a	n/a	5.76	n/a	J
S09V001165		A	7440-48-4	Cobalt	ug/g	85.9	<0.0100	5.65	n/a	n/a	n/a	n/a	1.92	n/a	J
S09V001165		A	7440-47-3	Chromium	ug/g	86.5	<5.00E-03	14.2	n/a	n/a	n/a	n/a	0.960	n/a	
S09V001165		A	7440-50-8	Copper	ug/g	89.7	<5.00E-03	8.23	n/a	n/a	n/a	n/a	0.960	n/a	J
S09V001165		A	7440-53-1	Europium	ug/g	88.8	<5.00E-03	1.69	n/a	n/a	n/a	n/a	0.960	n/a	J
S09V001165		A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	1.37E+04	n/a	n/a	n/a	n/a	0.960	n/a	
S09V001165		A	7440-09-7	Potassium	ug/g	85.0	<0.500	1.22E+03	n/a	n/a	n/a	n/a	96.0	n/a	
S09V001165		A	7439-91-0	Lanthanum	ug/g	89.1	<3.00E-03	8.92	n/a	n/a	n/a	n/a	0.576	n/a	
S09V001165		A	7439-93-2	Lithium	ug/g	85.0	<3.00E-03	8.92	n/a	n/a	n/a	n/a	0.576	n/a	
S09V001165		A	7439-95-4	Magnesium	ug/g	83.9	<0.0500	4.21E+03	n/a	n/a	n/a	n/a	9.60	n/a	
S09V001165		A	7439-96-5	Manganese	ug/g	84.9	<3.00E-03	309	n/a	n/a	n/a	n/a	0.576	n/a	
S09V001165		A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<3.84	n/a	n/a	n/a	n/a	3.84	n/a	U
S09V001165		A	7440-23-5	Sodium	ug/g	81.1	<0.100	208	n/a	n/a	n/a	n/a	19.2	n/a	b
S09V001165		A	7440-00-8	Neodymium	ug/g	92.1	<0.0100	16.8	n/a	n/a	n/a	n/a	1.92	n/a	J
S09V001165		A	7723-14-0	Phosphorus	ug/g	91.6	<0.0500	432	n/a	n/a	n/a	n/a	9.60	n/a	
S09V001165		A	7704-34-9	Sulfur	ug/g	89.8	<0.100	33.1	n/a	n/a	n/a	n/a	19.2	n/a	J
S09V001165		A	7440-21-3	Silicon	ug/g	77.2	0.0302	820	n/a	n/a	n/a	n/a	5.76	n/a	abc
S09V001165		A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	35.8	n/a	n/a	n/a	n/a	0.576	n/a	
S09V001165		A	7440-32-6	Titanium	ug/g	105	<5.00E-03	890	n/a	n/a	n/a	n/a	0.960	n/a	
S09V001165		A	7440-61-1	Uranium	ug/g	97.0	<0.100	<19.2	n/a	n/a	n/a	n/a	19.2	n/a	U
S09V001165		A	7440-65-5	Yttrium	ug/g	85.6	<2.00E-03	5.51	n/a	n/a	n/a	n/a	0.384	n/a	
S09V001165		A	7440-66-6	Zinc	ug/g	86.3	<5.00E-03	29.3	n/a	n/a	n/a	n/a	0.960	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21208
Sample Depth: 97-99

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001165		A	7440-67-7	Zirconium	ug/g	87.8	<5.00E-03	7.49	n/a	n/a	n/a	n/a	0.960	n/a	J
S09V001165		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.69E-05	n/a	n/a	n/a	n/a	2.69E-05	n/a	U
S09V001165		A	TH-232	Thorium-232	ug/g	99.7	6.60E-05	2.97	n/a	n/a	n/a	n/a	6.53E-04	n/a	
S09V001165		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	9.71E-05	n/a	n/a	n/a	n/a	3.84E-05	n/a	J
S09V001165		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	4.24E-05	n/a	n/a	n/a	n/a	1.92E-05	n/a	J
S09V001165		A	15117-96-1	Uranium-235	ug/g	92.4	2.57E-07	3.12E-03	n/a	n/a	n/a	n/a	4.22E-05	n/a	
S09V001165		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.54E-05	n/a	n/a	n/a	n/a	1.54E-05	n/a	U
S09V001165		A	U-238	Uranium-238	ug/g	97.2	3.82E-05	0.479	n/a	n/a	n/a	n/a	2.11E-03	n/a	
S09V001165		A	7440-22-4	Silver	ug/g	105	2.07E-04	0.0904	n/a	n/a	n/a	n/a	0.0307	n/a	BJ
S09V001165		A	7440-38-2	Arsenic	ug/g	92.6	<8.40E-04	3.04	n/a	n/a	n/a	n/a	0.161	n/a	
S09V001165		A	7440-43-9	Cadmium	ug/g	96.6	<6.00E-04	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S09V001165		A	7439-92-1	Lead	ug/g	102	<6.20E-03	4.91	n/a	n/a	n/a	n/a	1.19	n/a	J
S09V001165		A	7440-36-0	Antimony	ug/g	101	<8.80E-04	<0.169	n/a	n/a	n/a	n/a	0.169	n/a	U
S09V001165		A	7782-49-2	Selenium	ug/g	83.0	<0.0122	<2.34	n/a	n/a	n/a	n/a	2.34	n/a	U
S09V001165		A	7440-28-0	Thallium	ug/g	99.3	6.64E-05	0.0935	n/a	n/a	n/a	n/a	0.0115	n/a	BJ
S09V001165		A	7440-62-2	Vanadium	ug/g	94.1	<4.80E-04	30.6	n/a	n/a	n/a	n/a	0.921	n/a	
S09V001165		A	7440-02-0	Nickel	ug/g	97.8	<2.40E-03	13.8	n/a	n/a	n/a	n/a	0.461	n/a	
S09V001169		S	14798-03-9	Ammonium	ug/g	97.8	<0.120	<0.466	n/a	n/a	n/a	n/a	0.466	n/a	U
S09V001173		A	14133-76-7	Technetium-99	ug/g	97.3	<6.00E-06	<1.14E-03	n/a	n/a	n/a	n/a	1.14E-03	n/a	U
S09V001173		A	SN-117	Tin-117	ug/g	99.3	<2.20E-04	<0.0419	n/a	n/a	n/a	n/a	0.0419	n/a	U
S09V001173		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.61E-04	n/a	n/a	n/a	n/a	7.61E-04	n/a	U
S09V001177		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.69E-07	<4.69E-07	n/a	n/a	n/a	n/a	4.69E-07	n/a	U
S09V001177		E	14596-10-2	Americium-241	uCi/g	101	<1.17E-06	<1.17E-06	n/a	n/a	n/a	n/a	1.17E-06	n/a	U
S09V001177		E	15510-73-3	Curium-242	uCi/g	n/a	<4.69E-07	<4.69E-07	n/a	n/a	n/a	n/a	4.69E-07	n/a	U
S09V001177		E	13981-37-8	Nickel-63	uCi/g	89.0	<5.65E-05	<4.91E-05	n/a	n/a	n/a	n/a	4.91E-05	n/a	U
S09V001177		E	PU-239/240	Plutonium-239/240	uCi/g	99.6	<6.99E-07	<5.96E-07	n/a	n/a	n/a	n/a	5.96E-07	n/a	U
S09V001177		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.99E-07	<5.96E-07	n/a	n/a	n/a	n/a	5.96E-07	n/a	U
S09V001177		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.51E-06	<1.63E-06	n/a	n/a	n/a	n/a	1.63E-06	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21208
Sample Depth: 97-99

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001177		E	SR-89/90	Strontium-89/90	uCi/g	95.9	<2.74E-06	2.31E-06	n/a	n/a	n/a	n/a	1.97E-06	131.78	J
S09V001371		W	16984-48-8	Fluoride	ug/g	101	<0.0805	2.14	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001371		W	666-14-8	Glycolate	ug/g	104	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001371		W	71-50-1	Acetate	ug/g	108	<0.302	<0.0755	n/a	n/a	n/a	n/a	0.0755	n/a	U
S09V001371		W	12311-97-6	Formate	ug/g	106	0.270	0.331	n/a	n/a	n/a	n/a	0.0584	n/a	BJ
S09V001371		W	16887-00-6	Chloride	ug/g	101	<0.499	0.583	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001371		W	14797-65-0	Nitrite	ug/g	105	<0.960	0.457	n/a	n/a	n/a	n/a	0.240	n/a	J
S09V001371		W	14808-79-8	Sulfate	ug/g	104	<0.935	22.5	n/a	n/a	n/a	n/a	0.234	n/a	
S09V001371		W	338-70-5	Oxalate	ug/g	103	<1.16	<0.289	n/a	n/a	n/a	n/a	0.289	n/a	U
S09V001371		W	24959-67-9	Bromide	ug/g	99.9	<2.90	<0.725	n/a	n/a	n/a	n/a	0.725	n/a	U
S09V001371		W	14797-55-8	Nitrate	ug/g	102	<1.04	2.46	n/a	n/a	n/a	n/a	0.260	n/a	J
S09V001371		W	14265-44-2	Phosphate	ug/g	103	<0.835	0.917	n/a	n/a	n/a	n/a	0.209	n/a	J
S09V001584		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.87E-04	n/a	n/a	n/a	n/a	1.87E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21210
Sample Depth: 97-99

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001121			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.123	n/a	n/a	n/a	n/a	0.123	n/a	U
S09V001121			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.235	n/a	n/a	n/a	n/a	0.235	n/a	U
S09V001121			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.309	n/a	n/a	n/a	n/a	0.309	n/a	U
S09V001121			75-35-4	1,1-Dichloroethene	ug/kg	95.4	<0.340	<0.210	n/a	n/a	n/a	n/a	0.210	n/a	U
S09V001121			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001121			71-36-3	1-Butanol	ug/kg	129	<15.5	<9.59	n/a	n/a	n/a	n/a	9.59	n/a	U
S09V001121			108-10-1	Hexone	ug/kg	128	<1.76	<1.09	n/a	n/a	n/a	n/a	1.09	n/a	Ub
S09V001121			67-64-1	Acetone	ug/kg	128	<4.38	<2.70	n/a	n/a	n/a	n/a	2.70	n/a	Ub
S09V001121			71-43-2	Benzene	ug/kg	94.3	<0.320	<0.198	n/a	n/a	n/a	n/a	0.198	n/a	U
S09V001121			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.185	n/a	n/a	n/a	n/a	0.185	n/a	U
S09V001121			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.185	n/a	n/a	n/a	n/a	0.185	n/a	U
S09V001121			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001121			108-90-7	Chlorobenzene	ug/kg	98.5	<0.220	<0.136	n/a	n/a	n/a	n/a	0.136	n/a	U
S09V001121			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.148	n/a	n/a	n/a	n/a	0.148	n/a	U
S09V001121			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.383	n/a	n/a	n/a	n/a	0.383	n/a	U
S09V001121			78-93-3	2-Butanone	ug/kg	120	<2.66	<1.64	n/a	n/a	n/a	n/a	1.64	n/a	Ub
S09V001121			75-09-2	Methylenechloride	ug/kg	n/a	3.23	1.80	n/a	n/a	n/a	n/a	0.210	n/a	BJ
S09V001121			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.247	n/a	n/a	n/a	n/a	0.247	n/a	U
S09V001121			108-88-3	Toluene	ug/kg	95.0	<0.240	<0.148	n/a	n/a	n/a	n/a	0.148	n/a	U
S09V001121			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.0864	n/a	n/a	n/a	n/a	0.0864	n/a	U
S09V001121			79-01-6	Trichloroethene	ug/kg	90.9	<0.300	<0.185	n/a	n/a	n/a	n/a	0.185	n/a	U
S09V001121			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.395	n/a	n/a	n/a	n/a	0.395	n/a	U
S09V001121			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.160	n/a	n/a	n/a	n/a	0.160	n/a	U
S09V001121			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V001121			110-54-3	Hexane	ug/kg	n/a	<0.440	4.83	n/a	n/a	n/a	n/a	0.272	n/a	
S09V001121			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.309	n/a	n/a	n/a	n/a	0.309	n/a	U
S09V001121			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<0.973	n/a	n/a	n/a	n/a	0.973	n/a	U
S09V001121			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.600	n/a	n/a	n/a	n/a	0.600	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21210
Sample Depth: 97-99

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001121			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.546	n/a	n/a	n/a	n/a	0.546	n/a	U
S09V001121			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.20	n/a	n/a	n/a	n/a	1.20	n/a	U
S09V001121			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.123	n/a	n/a	n/a	n/a	0.123	n/a	U
S09V001121			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.259	n/a	n/a	n/a	n/a	0.259	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21211
Sample Depth: 125-127

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001146			%WATERA	%WATER-APD	%	n/a	n/a	4.085	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001146			57-12-5	Cyanide	ug/g	99.8	<0.0370	<4.45	n/a	n/a	n/a	n/a	4.45	n/a	U
S09V001146			7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0189	n/a	n/a	n/a	n/a	0.0189	n/a	U
S09V001146			PH	pH	unitless	n/a	n/a	9.10	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001146			18496-25-8	Sulfide	ug/g	91.8	<0.180	30.2	n/a	n/a	n/a	n/a	6.65	n/a	J
S09V001154			13966-00-2	Potassium-40	uCi/g	n/a	<5.42E-06	1.91E-05	n/a	n/a	n/a	n/a	4.63E-06	16.98	
S09V001154			10198-40-0	Cobalt-60	uCi/g	101	<1.97E-07	<2.06E-07	n/a	n/a	n/a	n/a	2.06E-07	n/a	U
S09V001154			14234-35-6	Antimony-125	uCi/g	n/a	<5.03E-07	<5.35E-07	n/a	n/a	n/a	n/a	5.35E-07	n/a	U
S09V001154			10045-97-3	Cesium-137	uCi/g	106	<2.25E-07	<2.35E-07	n/a	n/a	n/a	n/a	2.35E-07	n/a	U
S09V001154			14683-23-9	Europium-152	uCi/g	n/a	<9.41E-07	<1.04E-06	n/a	n/a	n/a	n/a	1.04E-06	n/a	U
S09V001154			15585-10-1	Europium-154	uCi/g	n/a	<6.32E-07	<6.41E-07	n/a	n/a	n/a	n/a	6.41E-07	n/a	U
S09V001154			14391-16-3	Europium-155	uCi/g	n/a	<3.78E-07	<3.95E-07	n/a	n/a	n/a	n/a	3.95E-07	n/a	U
S09V001154			15092-94-1	Lead-212	uCi/g	n/a	<3.03E-07	6.10E-07	n/a	n/a	n/a	n/a	3.03E-07	32.46	J
S09V001154			14733-03-0	Bismuth-214	uCi/g	n/a	<4.41E-07	6.10E-07	n/a	n/a	n/a	n/a	4.50E-07	44.22	J
S09V001154			15067-28-4	Lead-214	uCi/g	n/a	<4.35E-07	6.91E-07	n/a	n/a	n/a	n/a	5.72E-07	41.58	J
S09V001154			14274-82-9	Thorium-228	uCi/g	n/a	<9.57E-06	<1.04E-05	n/a	n/a	n/a	n/a	1.04E-05	n/a	U
S09V001154			15065-10-8	Thorium-234	uCi/g	n/a	<8.47E-06	<8.92E-06	n/a	n/a	n/a	n/a	8.92E-06	n/a	U
S09V001154			15046-84-1	Iodine-129	uCi/g	93.6	<2.57E-07	<3.85E-07	n/a	n/a	n/a	n/a	3.85E-07	n/a	U
S09V001158		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	61.3	<77.4	<76.0	n/a	n/a	n/a	n/a	76.0	n/a	U
S09V001158		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<98.9	n/a	n/a	n/a	n/a	98.9	n/a	U
S09V001158		O	106-46-7	1,4-Dichlorobenzene	ug/kg	59.9	<113	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V001158		O	121-14-2	2,4-Dinitrotoluene	ug/kg	70.1	<38.1	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S09V001158		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S09V001158		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S09V001158		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.5	n/a	n/a	n/a	n/a	56.5	n/a	U
S09V001158		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.7	n/a	n/a	n/a	n/a	52.7	n/a	U
S09V001158		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S09V001158		O	83-32-9	Acenaphthene	ug/kg	67.5	<17.6	<17.3	n/a	n/a	n/a	n/a	17.3	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21211
Sample Depth: 125-127

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001158		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S09V001158		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.0	n/a	n/a	n/a	n/a	48.0	n/a	U
S09V001158		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.5	n/a	n/a	n/a	n/a	40.5	n/a	U
S09V001158		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	714	n/a	n/a	n/a	n/a	580	n/a	J
S09V001158		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.4	n/a	n/a	n/a	n/a	38.4	n/a	U
S09V001158		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S09V001158		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.6	<43.2	<42.4	n/a	n/a	n/a	n/a	42.4	n/a	U
S09V001158		O	95-57-8	2-Chlorophenol	ug/kg	61.1	<66.5	<65.3	n/a	n/a	n/a	n/a	65.3	n/a	U
S09V001158		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<79.9	n/a	n/a	n/a	n/a	79.9	n/a	U
S09V001158		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U
S09V001158		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<552	n/a	n/a	n/a	n/a	552	n/a	U
S09V001158		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.8	n/a	n/a	n/a	n/a	46.8	n/a	U
S09V001158		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	60.6	<58.1	<57.0	n/a	n/a	n/a	n/a	57.0	n/a	U
S09V001158		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.8	n/a	n/a	n/a	n/a	34.8	n/a	U
S09V001158		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.4	n/a	n/a	n/a	n/a	68.4	n/a	U
S09V001158		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V001158		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.1	n/a	n/a	n/a	n/a	50.1	n/a	U
S09V001158		O	108-95-2	Phenol	ug/kg	62.7	<59.4	<58.3	n/a	n/a	n/a	n/a	58.3	n/a	U
S09V001158		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.5	n/a	n/a	n/a	n/a	61.5	n/a	U
S09V001158		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.4	n/a	n/a	n/a	n/a	63.4	n/a	U
S09V001158		O	100-02-7	4-Nitrophenol	ug/kg	70.3	<52.6	<51.6	n/a	n/a	n/a	n/a	51.6	n/a	U
S09V001158		O	87-86-5	Pentachlorophenol	ug/kg	71.2	<37.5	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U
S09V001158		O	129-00-0	Pyrene	ug/kg	75.6	<62.9	<61.8	n/a	n/a	n/a	n/a	61.8	n/a	U
S09V001158		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<63.8	n/a	n/a	n/a	n/a	63.8	n/a	U
S09V001158		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001158		O	128-37-0	BHT	ug/kg	n/a	<236	<231	n/a	n/a	n/a	n/a	231	n/a	U
S09V001158		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<179	n/a	n/a	n/a	n/a	179	n/a	U
S09V001158		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21211
Sample Depth: 125-127

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001158		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<549	n/a	n/a	n/a	n/a	549	n/a	U
S09V001158		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<188	n/a	n/a	n/a	n/a	188	n/a	U
S09V001158		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<452	n/a	n/a	n/a	n/a	452	n/a	U
S09V001162		W	14762-75-5	Carbon-14	uCi/g	100	<4.82E-05	<5.11E-05	n/a	n/a	n/a	n/a	5.11E-05	n/a	U
S09V001162		W	10028-17-8	Tritium	uCi/g	96.7	<1.49E-06	3.06E-04	n/a	n/a	n/a	n/a	2.89E-04	182.8	J
S09V001166		A	7429-90-5	Aluminum	ug/g	88.4	<0.0300	4.80E+03	n/a	n/a	n/a	n/a	5.43	n/a	
S09V001166		A	7440-39-3	Barium	ug/g	88.8	<3.00E-03	40.6	n/a	n/a	n/a	n/a	0.543	n/a	
S09V001166		A	7440-41-7	Beryllium	ug/g	91.8	<1.00E-03	<0.181	n/a	n/a	n/a	n/a	0.181	n/a	U
S09V001166		A	7440-70-2	Calcium	ug/g	85.3	0.0503	6.96E+03	n/a	n/a	n/a	n/a	9.06	n/a	
S09V001166		A	7440-45-1	Cerium	ug/g	89.0	<0.0300	14.3	n/a	n/a	n/a	n/a	5.43	n/a	J
S09V001166		A	7440-48-4	Cobalt	ug/g	85.9	<0.0100	3.90	n/a	n/a	n/a	n/a	1.81	n/a	J
S09V001166		A	7440-47-3	Chromium	ug/g	86.5	<5.00E-03	9.63	n/a	n/a	n/a	n/a	0.906	n/a	
S09V001166		A	7440-50-8	Copper	ug/g	89.7	<5.00E-03	7.58	n/a	n/a	n/a	n/a	0.906	n/a	J
S09V001166		A	7440-53-1	Europium	ug/g	88.8	<5.00E-03	1.05	n/a	n/a	n/a	n/a	0.906	n/a	J
S09V001166		A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	1.21E+04	n/a	n/a	n/a	n/a	0.906	n/a	
S09V001166		A	7440-09-7	Potassium	ug/g	85.0	<0.500	867	n/a	n/a	n/a	n/a	90.6	n/a	J
S09V001166		A	7439-91-0	Lanthanum	ug/g	89.1	<3.00E-03	8.60	n/a	n/a	n/a	n/a	0.543	n/a	
S09V001166		A	7439-93-2	Lithium	ug/g	85.0	<3.00E-03	7.30	n/a	n/a	n/a	n/a	0.543	n/a	
S09V001166		A	7439-95-4	Magnesium	ug/g	83.9	<0.0500	3.85E+03	n/a	n/a	n/a	n/a	9.06	n/a	
S09V001166		A	7439-96-5	Manganese	ug/g	84.9	<3.00E-03	213	n/a	n/a	n/a	n/a	0.543	n/a	
S09V001166		A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<3.62	n/a	n/a	n/a	n/a	3.62	n/a	U
S09V001166		A	7440-23-5	Sodium	ug/g	81.1	<0.100	272	n/a	n/a	n/a	n/a	18.1	n/a	b
S09V001166		A	7440-00-8	Neodymium	ug/g	92.1	<0.0100	14.4	n/a	n/a	n/a	n/a	1.81	n/a	J
S09V001166		A	7723-14-0	Phosphorus	ug/g	91.6	<0.0500	443	n/a	n/a	n/a	n/a	9.06	n/a	
S09V001166		A	7704-34-9	Sulfur	ug/g	89.8	<0.100	98.2	n/a	n/a	n/a	n/a	18.1	n/a	J
S09V001166		A	7440-21-3	Silicon	ug/g	77.2	0.0302	775	n/a	n/a	n/a	n/a	5.43	n/a	abc
S09V001166		A	7440-19-9	Samarium	ug/g	88.2	<0.0200	3.73	n/a	n/a	n/a	n/a	3.62	n/a	J
S09V001166		A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	24.9	n/a	n/a	n/a	n/a	0.543	n/a	

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DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21211
Sample Depth: 125-127

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001166		A	7440-32-6	Titanium	ug/g	105	<5.00E-03	732	n/a	n/a	n/a	n/a	0.906	n/a	
S09V001166		A	7440-61-1	Uranium	ug/g	97.0	<0.100	<18.1	n/a	n/a	n/a	n/a	18.1	n/a	U
S09V001166		A	7440-65-5	Yttrium	ug/g	85.6	<2.00E-03	5.32	n/a	n/a	n/a	n/a	0.362	n/a	
S09V001166		A	7440-66-6	Zinc	ug/g	86.3	<5.00E-03	25.6	n/a	n/a	n/a	n/a	0.906	n/a	
S09V001166		A	7440-67-7	Zirconium	ug/g	87.8	<5.00E-03	5.91	n/a	n/a	n/a	n/a	0.906	n/a	
S09V001166		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.54E-05	n/a	n/a	n/a	n/a	2.54E-05	n/a	U
S09V001166		A	TH-232	Thorium-232	ug/g	99.7	6.60E-05	3.00	n/a	n/a	n/a	n/a	6.16E-04	n/a	
S09V001166		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.18E-04	n/a	n/a	n/a	n/a	3.62E-05	n/a	J
S09V001166		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.81E-05	n/a	n/a	n/a	n/a	1.81E-05	n/a	U
S09V001166		A	15117-96-1	Uranium-235	ug/g	92.4	2.57E-07	2.99E-03	n/a	n/a	n/a	n/a	3.99E-05	n/a	
S09V001166		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.45E-05	n/a	n/a	n/a	n/a	1.45E-05	n/a	U
S09V001166		A	U-238	Uranium-238	ug/g	97.2	3.82E-05	0.425	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S09V001166		A	7440-22-4	Silver	ug/g	105	2.07E-04	0.101	n/a	n/a	n/a	n/a	0.0290	n/a	BJ
S09V001166		A	7440-38-2	Arsenic	ug/g	92.6	<8.40E-04	3.99	n/a	n/a	n/a	n/a	0.152	n/a	
S09V001166		A	7440-43-9	Cadmium	ug/g	96.6	<6.00E-04	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S09V001166		A	7439-92-1	Lead	ug/g	102	<6.20E-03	4.66	n/a	n/a	n/a	n/a	1.12	n/a	J
S09V001166		A	7440-36-0	Antimony	ug/g	101	<8.80E-04	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V001166		A	7782-49-2	Selenium	ug/g	83.0	<0.0122	<2.21	n/a	n/a	n/a	n/a	2.21	n/a	U
S09V001166		A	7440-28-0	Thallium	ug/g	99.3	6.64E-05	0.0616	n/a	n/a	n/a	n/a	0.0109	n/a	BJ
S09V001166		A	7440-62-2	Vanadium	ug/g	94.1	<4.80E-04	25.4	n/a	n/a	n/a	n/a	0.870	n/a	
S09V001166		A	7440-02-0	Nickel	ug/g	97.8	<2.40E-03	9.86	n/a	n/a	n/a	n/a	0.435	n/a	
S09V001170		S	14798-03-9	Ammonium	ug/g	96.3	<0.0120	1.40	1.20	1.30	15.0	95.9	0.482	n/a	J
S09V001174		A	14133-76-7	Technetium-99	ug/g	97.3	<6.00E-06	3.19E-03	n/a	n/a	n/a	n/a	1.15E-03	n/a	J
S09V001174		A	SN-117	Tin-117	ug/g	99.3	<2.20E-04	<0.0423	n/a	n/a	n/a	n/a	0.0423	n/a	U
S09V001174		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.70E-04	n/a	n/a	n/a	n/a	7.70E-04	n/a	U
S09V001178		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.69E-07	<3.78E-07	n/a	n/a	n/a	n/a	3.78E-07	n/a	U
S09V001178		E	14596-10-2	Americium-241	uCi/g	101	<1.17E-06	<9.45E-07	n/a	n/a	n/a	n/a	9.45E-07	n/a	U
S09V001178		E	15510-73-3	Curium-242	uCi/g	n/a	<4.69E-07	<3.78E-07	n/a	n/a	n/a	n/a	3.78E-07	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21211
Sample Depth: 125-127

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001178		E	13981-37-8	Nickel-63	uCi/g	89.0	<5.65E-05	<5.13E-05	n/a	n/a	n/a	n/a	5.13E-05	n/a	U
S09V001178		E	PU-239/240	Plutonium-239/240	uCi/g	99.6	<6.99E-07	<6.73E-07	n/a	n/a	n/a	n/a	6.73E-07	n/a	U
S09V001178		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.99E-07	<6.73E-07	n/a	n/a	n/a	n/a	6.73E-07	n/a	U
S09V001178		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.51E-06	<3.16E-06	n/a	n/a	n/a	n/a	3.16E-06	n/a	U
S09V001178		E	SR-89/90	Strontium-89/90	uCi/g	95.9	<2.74E-06	<2.02E-06	n/a	n/a	n/a	n/a	2.02E-06	n/a	U
S09V001372		W	16984-48-8	Fluoride	ug/g	101	<0.0805	1.02	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001372		W	666-14-8	Glycolate	ug/g	104	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001372		W	71-50-1	Acetate	ug/g	108	<0.302	<0.0754	n/a	n/a	n/a	n/a	0.0754	n/a	U
S09V001372		W	12311-97-6	Formate	ug/g	106	0.270	0.245	n/a	n/a	n/a	n/a	0.0583	n/a	BJ
S09V001372		W	16887-00-6	Chloride	ug/g	101	<0.499	3.20	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001372		W	14797-65-0	Nitrite	ug/g	105	<0.960	1.23	n/a	n/a	n/a	n/a	0.240	n/a	J
S09V001372		W	14808-79-8	Sulfate	ug/g	104	<0.935	90.2	n/a	n/a	n/a	n/a	0.234	n/a	
S09V001372		W	338-70-5	Oxalate	ug/g	103	<1.16	<0.288	n/a	n/a	n/a	n/a	0.288	n/a	U
S09V001372		W	24959-67-9	Bromide	ug/g	99.9	<2.90	<0.724	n/a	n/a	n/a	n/a	0.724	n/a	U
S09V001372		W	14797-55-8	Nitrate	ug/g	102	<1.04	192	n/a	n/a	n/a	n/a	0.260	n/a	
S09V001372		W	14265-44-2	Phosphate	ug/g	103	<0.835	0.535	n/a	n/a	n/a	n/a	0.209	n/a	J
S09V001585		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.89E-04	n/a	n/a	n/a	n/a	1.89E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21213
Sample Depth: 125-127

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001122			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.189	n/a	n/a	n/a	n/a	0.189	n/a	U
S09V001122			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.358	n/a	n/a	n/a	n/a	0.358	n/a	U
S09V001122			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.472	n/a	n/a	n/a	n/a	0.472	n/a	U
S09V001122			75-35-4	1,1-Dichloroethene	ug/kg	103	<0.340	<0.321	n/a	n/a	n/a	n/a	0.321	n/a	U
S09V001122			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.170	n/a	n/a	n/a	n/a	0.170	n/a	U
S09V001122			71-36-3	1-Butanol	ug/kg	115	<15.5	<14.7	n/a	n/a	n/a	n/a	14.7	n/a	U
S09V001122			108-10-1	Hexone	ug/kg	129	<1.76	<1.66	n/a	n/a	n/a	n/a	1.66	n/a	U
S09V001122			67-64-1	Acetone	ug/kg	76.1	<4.38	<4.13	n/a	n/a	n/a	n/a	4.13	n/a	U
S09V001122			71-43-2	Benzene	ug/kg	97.8	<0.320	<0.302	n/a	n/a	n/a	n/a	0.302	n/a	U
S09V001122			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.283	n/a	n/a	n/a	n/a	0.283	n/a	U
S09V001122			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.283	n/a	n/a	n/a	n/a	0.283	n/a	U
S09V001122			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.170	n/a	n/a	n/a	n/a	0.170	n/a	U
S09V001122			108-90-7	Chlorobenzene	ug/kg	102	<0.220	<0.208	n/a	n/a	n/a	n/a	0.208	n/a	U
S09V001122			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.226	n/a	n/a	n/a	n/a	0.226	n/a	U
S09V001122			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.585	n/a	n/a	n/a	n/a	0.585	n/a	U
S09V001122			78-93-3	2-Butanone	ug/kg	116	<2.66	<2.51	n/a	n/a	n/a	n/a	2.51	n/a	U
S09V001122			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.321	n/a	n/a	n/a	n/a	0.321	n/a	U
S09V001122			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.377	n/a	n/a	n/a	n/a	0.377	n/a	U
S09V001122			108-88-3	Toluene	ug/kg	95.8	<0.240	<0.226	n/a	n/a	n/a	n/a	0.226	n/a	U
S09V001122			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.132	n/a	n/a	n/a	n/a	0.132	n/a	U
S09V001122			79-01-6	Trichloroethene	ug/kg	90.7	<0.300	<0.283	n/a	n/a	n/a	n/a	0.283	n/a	U
S09V001122			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.604	n/a	n/a	n/a	n/a	0.604	n/a	U
S09V001122			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.245	n/a	n/a	n/a	n/a	0.245	n/a	U
S09V001122			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.340	n/a	n/a	n/a	n/a	0.340	n/a	U
S09V001122			110-54-3	Hexane	ug/kg	n/a	<0.440	27.3	n/a	n/a	n/a	n/a	0.415	n/a	
S09V001122			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.472	n/a	n/a	n/a	n/a	0.472	n/a	U
S09V001122			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.49	n/a	n/a	n/a	n/a	1.49	n/a	U
S09V001122			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.917	n/a	n/a	n/a	n/a	0.917	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21213
Sample Depth: 125-127

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001122			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.835	n/a	n/a	n/a	n/a	0.835	n/a	U
S09V001122			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.83	n/a	n/a	n/a	n/a	1.83	n/a	U
S09V001122			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.189	n/a	n/a	n/a	n/a	0.189	n/a	U
S09V001122			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.396	n/a	n/a	n/a	n/a	0.396	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21214
Sample Depth: 135-137

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001224		%WATERA	%WATER-APD	%	n/a	n/a	5.526	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001224		57-12-5	Cyanide	ug/g	99.8	<0.0370	<4.31	n/a	n/a	n/a	n/a	4.31	n/a	U
S09V001224		7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S09V001224		PH	pH	unitless	n/a	n/a	8.96	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001224		18496-25-8	Sulfide	ug/g	91.8	<0.180	9.14	n/a	n/a	n/a	n/a	6.91	n/a	J
S09V001226		13966-00-2	Potassium-40	uCi/g	n/a	<5.42E-06	1.45E-05	n/a	n/a	n/a	n/a	5.25E-06	23.82	
S09V001226		10198-40-0	Cobalt-60	uCi/g	101	<1.97E-07	<2.41E-07	n/a	n/a	n/a	n/a	2.41E-07	n/a	U
S09V001226		14234-35-6	Antimony-125	uCi/g	n/a	<5.03E-07	<6.00E-07	n/a	n/a	n/a	n/a	6.00E-07	n/a	U
S09V001226		10045-97-3	Cesium-137	uCi/g	106	<2.25E-07	<2.71E-07	n/a	n/a	n/a	n/a	2.71E-07	n/a	U
S09V001226		14683-23-9	Europium-152	uCi/g	n/a	<9.41E-07	<1.12E-06	n/a	n/a	n/a	n/a	1.12E-06	n/a	U
S09V001226		15585-10-1	Europium-154	uCi/g	n/a	<6.32E-07	<7.59E-07	n/a	n/a	n/a	n/a	7.59E-07	n/a	U
S09V001226		14391-16-3	Europium-155	uCi/g	n/a	<3.78E-07	<4.43E-07	n/a	n/a	n/a	n/a	4.43E-07	n/a	U
S09V001226		15092-94-1	Lead-212	uCi/g	n/a	<3.03E-07	5.75E-07	n/a	n/a	n/a	n/a	2.81E-07	28.27	
S09V001226		15067-28-4	Lead-214	uCi/g	n/a	<4.35E-07	7.10E-07	n/a	n/a	n/a	n/a	5.52E-07	32.54	J
S09V001226		14274-82-9	Thorium-228	uCi/g	n/a	<9.57E-06	<1.17E-05	n/a	n/a	n/a	n/a	1.17E-05	n/a	U
S09V001226		15065-10-8	Thorium-234	uCi/g	n/a	<8.47E-06	<1.01E-05	n/a	n/a	n/a	n/a	1.01E-05	n/a	U
S09V001226		15046-84-1	Iodine-129	uCi/g	93.6	<2.57E-07	<1.90E-07	n/a	n/a	n/a	n/a	1.90E-07	n/a	U
S09V001228	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	61.3	<77.4	<76.7	n/a	n/a	n/a	n/a	76.7	n/a	U
S09V001228	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.8	n/a	n/a	n/a	n/a	99.8	n/a	U
S09V001228	O	106-46-7	1,4-Dichlorobenzene	ug/kg	59.9	<113	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V001228	O	121-14-2	2,4-Dinitrotoluene	ug/kg	70.1	<38.1	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S09V001228	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.6	n/a	n/a	n/a	n/a	43.6	n/a	U
S09V001228	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S09V001228	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.0	n/a	n/a	n/a	n/a	57.0	n/a	U
S09V001228	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.2	n/a	n/a	n/a	n/a	53.2	n/a	U
S09V001228	O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S09V001228	O	83-32-9	Acenaphthene	ug/kg	67.5	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S09V001228	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.5	n/a	n/a	n/a	n/a	37.5	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21214
Sample Depth: 135-137

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001228		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.5	n/a	n/a	n/a	n/a	48.5	n/a	U
S09V001228		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.8	n/a	n/a	n/a	n/a	40.8	n/a	U
S09V001228		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	1.77E+03	n/a	n/a	n/a	n/a	585	n/a	J
S09V001228		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.7	n/a	n/a	n/a	n/a	38.7	n/a	U
S09V001228		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S09V001228		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.6	<43.2	<42.8	n/a	n/a	n/a	n/a	42.8	n/a	U
S09V001228		O	95-57-8	2-Chlorophenol	ug/kg	61.1	<66.5	<65.9	n/a	n/a	n/a	n/a	65.9	n/a	U
S09V001228		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.7	n/a	n/a	n/a	n/a	80.7	n/a	U
S09V001228		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S09V001228		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<557	n/a	n/a	n/a	n/a	557	n/a	U
S09V001228		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.3	n/a	n/a	n/a	n/a	47.3	n/a	U
S09V001228		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	60.6	<58.1	<57.6	n/a	n/a	n/a	n/a	57.6	n/a	U
S09V001228		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.1	n/a	n/a	n/a	n/a	35.1	n/a	U
S09V001228		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.1	n/a	n/a	n/a	n/a	69.1	n/a	U
S09V001228		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V001228		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S09V001228		O	108-95-2	Phenol	ug/kg	62.7	<59.4	<58.9	n/a	n/a	n/a	n/a	58.9	n/a	U
S09V001228		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.0	n/a	n/a	n/a	n/a	62.0	n/a	U
S09V001228		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.0	n/a	n/a	n/a	n/a	64.0	n/a	U
S09V001228		O	100-02-7	4-Nitrophenol	ug/kg	70.3	<52.6	<52.1	n/a	n/a	n/a	n/a	52.1	n/a	U
S09V001228		O	87-86-5	Pentachlorophenol	ug/kg	71.2	<37.5	<37.2	n/a	n/a	n/a	n/a	37.2	n/a	U
S09V001228		O	129-00-0	Pyrene	ug/kg	75.6	<62.9	<62.3	n/a	n/a	n/a	n/a	62.3	n/a	U
S09V001228		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.4	n/a	n/a	n/a	n/a	64.4	n/a	U
S09V001228		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V001228		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S09V001228		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<181	n/a	n/a	n/a	n/a	181	n/a	U
S09V001228		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V001228		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<554	n/a	n/a	n/a	n/a	554	n/a	U

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E - Outside Calibration Range

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21214
Sample Depth: 135-137

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001228		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S09V001228		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<456	n/a	n/a	n/a	n/a	456	n/a	U
S09V001229		W	14762-75-5	Carbon-14	uCi/g	100	<4.82E-05	5.03E-05	n/a	n/a	n/a	n/a	4.49E-05	100.6	J
S09V001229		W	10028-17-8	Tritium	uCi/g	96.7	<1.49E-06	<4.24E-04	n/a	n/a	n/a	n/a	4.24E-04	n/a	U
S09V001230		A	7429-90-5	Aluminum	ug/g	88.4	<0.0300	5.80E+03	n/a	n/a	n/a	n/a	5.49	n/a	
S09V001230		A	7440-39-3	Barium	ug/g	88.8	<3.00E-03	61.5	n/a	n/a	n/a	n/a	0.549	n/a	
S09V001230		A	7440-41-7	Beryllium	ug/g	91.8	<1.00E-03	<0.183	n/a	n/a	n/a	n/a	0.183	n/a	U
S09V001230		A	7440-70-2	Calcium	ug/g	85.3	0.0503	5.93E+03	n/a	n/a	n/a	n/a	9.15	n/a	
S09V001230		A	7440-45-1	Cerium	ug/g	89.0	<0.0300	15.3	n/a	n/a	n/a	n/a	5.49	n/a	J
S09V001230		A	7440-48-4	Cobalt	ug/g	85.9	<0.0100	5.19	n/a	n/a	n/a	n/a	1.83	n/a	
S09V001230		A	7440-47-3	Chromium	ug/g	86.5	<5.00E-03	9.90	n/a	n/a	n/a	n/a	0.915	n/a	
S09V001230		A	7440-50-8	Copper	ug/g	89.7	<5.00E-03	6.68	n/a	n/a	n/a	n/a	0.915	n/a	J
S09V001230		A	7440-53-1	Europium	ug/g	88.8	<5.00E-03	0.976	n/a	n/a	n/a	n/a	0.915	n/a	J
S09V001230		A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	1.30E+04	n/a	n/a	n/a	n/a	0.915	n/a	
S09V001230		A	7440-09-7	Potassium	ug/g	85.0	<0.500	1.10E+03	n/a	n/a	n/a	n/a	91.5	n/a	
S09V001230		A	7439-91-0	Lanthanum	ug/g	89.1	<3.00E-03	7.81	n/a	n/a	n/a	n/a	0.549	n/a	
S09V001230		A	7439-93-2	Lithium	ug/g	85.0	<3.00E-03	8.17	n/a	n/a	n/a	n/a	0.549	n/a	
S09V001230		A	7439-95-4	Magnesium	ug/g	83.9	<0.0500	4.06E+03	n/a	n/a	n/a	n/a	9.15	n/a	
S09V001230		A	7439-96-5	Manganese	ug/g	84.9	<3.00E-03	223	n/a	n/a	n/a	n/a	0.549	n/a	
S09V001230		A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<3.66	n/a	n/a	n/a	n/a	3.66	n/a	U
S09V001230		A	7440-23-5	Sodium	ug/g	81.1	<0.100	250	n/a	n/a	n/a	n/a	18.3	n/a	b
S09V001230		A	7440-00-8	Neodymium	ug/g	92.1	<0.0100	14.0	n/a	n/a	n/a	n/a	1.83	n/a	J
S09V001230		A	7723-14-0	Phosphorus	ug/g	91.6	<0.0500	555	n/a	n/a	n/a	n/a	9.15	n/a	
S09V001230		A	7704-34-9	Sulfur	ug/g	89.8	<0.100	59.1	n/a	n/a	n/a	n/a	18.3	n/a	J
S09V001230		A	7440-21-3	Silicon	ug/g	77.2	0.0302	302	n/a	n/a	n/a	n/a	5.49	n/a	bc
S09V001230		A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	30.5	n/a	n/a	n/a	n/a	0.549	n/a	
S09V001230		A	7440-32-6	Titanium	ug/g	105	<5.00E-03	727	n/a	n/a	n/a	n/a	0.915	n/a	
S09V001230		A	7440-61-1	Uranium	ug/g	97.0	<0.100	<18.3	n/a	n/a	n/a	n/a	18.3	n/a	U

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B - Found in Blank
e - SERDIL Outside Range
c - RPD Outside Range
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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21214
Sample Depth: 135-137

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001230	A	7440-65-5	Yttrium	ug/g	85.6	<2.00E-03	5.72	n/a	n/a	n/a	n/a	0.366	n/a	
S09V001230	A	7440-66-6	Zinc	ug/g	86.3	<5.00E-03	27.2	n/a	n/a	n/a	n/a	0.915	n/a	
S09V001230	A	7440-67-7	Zirconium	ug/g	87.8	<5.00E-03	8.47	n/a	n/a	n/a	n/a	0.915	n/a	J
S09V001230	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.56E-05	n/a	n/a	n/a	n/a	2.56E-05	n/a	U
S09V001230	A	TH-232	Thorium-232	ug/g	99.7	6.60E-05	2.59	n/a	n/a	n/a	n/a	6.22E-04	n/a	
S09V001230	A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	2.20E-04	n/a	n/a	n/a	n/a	3.66E-05	n/a	J
S09V001230	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.83E-05	n/a	n/a	n/a	n/a	1.83E-05	n/a	U
S09V001230	A	15117-96-1	Uranium-235	ug/g	92.4	2.57E-07	3.33E-03	n/a	n/a	n/a	n/a	4.03E-05	n/a	
S09V001230	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	1.81E-05	n/a	n/a	n/a	n/a	1.46E-05	n/a	J
S09V001230	A	U-238	Uranium-238	ug/g	97.2	3.82E-05	0.490	n/a	n/a	n/a	n/a	2.01E-03	n/a	
S09V001230	A	7440-22-4	Silver	ug/g	105	2.07E-04	0.0931	n/a	n/a	n/a	n/a	0.0293	n/a	BJ
S09V001230	A	7440-38-2	Arsenic	ug/g	92.6	<8.40E-04	2.15	n/a	n/a	n/a	n/a	0.154	n/a	
S09V001230	A	7440-43-9	Cadmium	ug/g	96.6	<6.00E-04	<0.110	n/a	n/a	n/a	n/a	0.110	n/a	U
S09V001230	A	7439-92-1	Lead	ug/g	102	<6.20E-03	3.68	n/a	n/a	n/a	n/a	1.14	n/a	J
S09V001230	A	7440-36-0	Antimony	ug/g	101	<8.80E-04	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V001230	A	7782-49-2	Selenium	ug/g	83.0	<0.0122	<2.23	n/a	n/a	n/a	n/a	2.23	n/a	U
S09V001230	A	7440-28-0	Thallium	ug/g	99.3	6.64E-05	0.0739	n/a	n/a	n/a	n/a	0.0110	n/a	BJ
S09V001230	A	7440-62-2	Vanadium	ug/g	94.1	<4.80E-04	24.4	n/a	n/a	n/a	n/a	0.879	n/a	
S09V001230	A	7440-02-0	Nickel	ug/g	97.8	<2.40E-03	12.0	n/a	n/a	n/a	n/a	0.439	n/a	
S09V001231	S	14798-03-9	Ammonium	ug/g	96.3	<0.0120	1.89	n/a	n/a	n/a	n/a	0.481	n/a	J
S09V001232	A	14133-76-7	Technetium-99	ug/g	97.3	<6.00E-06	2.93E-03	n/a	n/a	n/a	n/a	1.10E-03	n/a	J
S09V001232	A	SN-117	Tin-117	ug/g	99.3	<2.20E-04	<0.0403	n/a	n/a	n/a	n/a	0.0403	n/a	U
S09V001232	A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.33E-04	n/a	n/a	n/a	n/a	7.33E-04	n/a	U
S09V001233	E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.69E-07	<3.60E-07	n/a	n/a	n/a	n/a	3.60E-07	n/a	U
S09V001233	E	14596-10-2	Americium-241	uCi/g	101	<1.17E-06	<8.99E-07	n/a	n/a	n/a	n/a	8.99E-07	n/a	U
S09V001233	E	15510-73-3	Curium-242	uCi/g	n/a	<4.69E-07	<3.60E-07	n/a	n/a	n/a	n/a	3.60E-07	n/a	U
S09V001233	E	13981-37-8	Nickel-63	uCi/g	89.0	<5.65E-05	<4.91E-05	n/a	n/a	n/a	n/a	4.91E-05	n/a	U
S09V001233	E	PU-239/240	Plutonium-239/240	uCi/g	99.6	<6.99E-07	<5.80E-07	n/a	n/a	n/a	n/a	5.80E-07	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21214
Sample Depth: 135-137

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001233		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.99E-07	<5.80E-07	n/a	n/a	n/a	n/a	5.80E-07	n/a	U
S09V001233		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.51E-06	<1.47E-06	n/a	n/a	n/a	n/a	1.47E-06	n/a	U
S09V001233		E	SR-89/90	Strontium-89/90	uCi/g	95.9	<2.74E-06	<1.86E-06	n/a	n/a	n/a	n/a	1.86E-06	n/a	U
S09V001373		W	16984-48-8	Fluoride	ug/g	101	<0.0805	1.09	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001373		W	666-14-8	Glycolate	ug/g	104	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001373		W	71-50-1	Acetate	ug/g	108	<0.302	0.198	n/a	n/a	n/a	n/a	0.0754	n/a	J
S09V001373		W	12311-97-6	Formate	ug/g	106	0.270	0.235	n/a	n/a	n/a	n/a	0.0583	n/a	BJ
S09V001373		W	16887-00-6	Chloride	ug/g	101	<0.499	3.18	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001373		W	14797-65-0	Nitrite	ug/g	105	<0.960	1.62	n/a	n/a	n/a	n/a	0.240	n/a	J
S09V001373		W	14808-79-8	Sulfate	ug/g	104	<0.935	126	n/a	n/a	n/a	n/a	0.233	n/a	
S09V001373		W	338-70-5	Oxalate	ug/g	103	<1.16	<0.288	n/a	n/a	n/a	n/a	0.288	n/a	U
S09V001373		W	24959-67-9	Bromide	ug/g	99.9	<2.90	<0.724	n/a	n/a	n/a	n/a	0.724	n/a	U
S09V001373		W	14797-55-8	Nitrate	ug/g	102	<1.04	173	n/a	n/a	n/a	n/a	0.260	n/a	
S09V001373		W	14265-44-2	Phosphate	ug/g	103	<0.835	<0.208	n/a	n/a	n/a	n/a	0.208	n/a	U
S09V001586		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.96E-04	n/a	n/a	n/a	n/a	1.96E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21216
Sample Depth: 135-137

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001212			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V001212			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.306	n/a	n/a	n/a	n/a	0.306	n/a	U
S09V001212			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.403	n/a	n/a	n/a	n/a	0.403	n/a	U
S09V001212			75-35-4	1,1-Dichloroethene	ug/kg	95.4	<0.340	<0.274	n/a	n/a	n/a	94.7	0.274	n/a	U
S09V001212			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S09V001212			71-36-3	1-Butanol	ug/kg	129	<15.5	<12.5	n/a	n/a	n/a	118	12.5	n/a	U
S09V001212			108-10-1	Hexone	ug/kg	128	<1.76	<1.42	n/a	n/a	n/a	142	1.42	n/a	Ub
S09V001212			67-64-1	Acetone	ug/kg	128	<4.38	<3.53	n/a	n/a	n/a	142	3.53	n/a	Ub
S09V001212			71-43-2	Benzene	ug/kg	94.3	<0.320	<0.258	n/a	n/a	n/a	98.5	0.258	n/a	U
S09V001212			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.242	n/a	n/a	n/a	n/a	0.242	n/a	U
S09V001212			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.242	n/a	n/a	n/a	n/a	0.242	n/a	U
S09V001212			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S09V001212			108-90-7	Chlorobenzene	ug/kg	98.5	<0.220	<0.177	n/a	n/a	n/a	98.2	0.177	n/a	U
S09V001212			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V001212			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S09V001212			78-93-3	2-Butanone	ug/kg	120	<2.66	<2.15	n/a	n/a	n/a	135	2.15	n/a	Ub
S09V001212			75-09-2	Methylenechloride	ug/kg	n/a	3.23	2.80	n/a	n/a	n/a	n/a	0.274	n/a	B
S09V001212			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.323	n/a	n/a	n/a	n/a	0.323	n/a	U
S09V001212			100-42-5	Styrene	ug/kg	n/a	<0.200	0.609	n/a	n/a	n/a	n/a	0.161	n/a	J
S09V001212			108-88-3	Toluene	ug/kg	95.0	<0.240	<0.194	n/a	n/a	n/a	92.9	0.194	n/a	U
S09V001212			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.113	n/a	n/a	n/a	n/a	0.113	n/a	U
S09V001212			79-01-6	Trichloroethene	ug/kg	90.9	<0.300	<0.242	n/a	n/a	n/a	91.9	0.242	n/a	U
S09V001212			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.516	n/a	n/a	n/a	n/a	0.516	n/a	U
S09V001212			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.210	n/a	n/a	n/a	n/a	0.210	n/a	U
S09V001212			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.290	n/a	n/a	n/a	n/a	0.290	n/a	U
S09V001212			110-54-3	Hexane	ug/kg	n/a	<0.440	18.1	n/a	n/a	n/a	n/a	0.355	n/a	
S09V001212			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.403	n/a	n/a	n/a	n/a	0.403	n/a	U
S09V001212			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.27	n/a	n/a	n/a	n/a	1.27	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21216
Sample Depth: 135-137

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001212			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.784	n/a	n/a	n/a	n/a	0.784	n/a	U
S09V001212			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.714	n/a	n/a	n/a	n/a	0.714	n/a	U
S09V001212			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.56	n/a	n/a	n/a	n/a	1.56	n/a	U
S09V001212			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V001212			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.339	n/a	n/a	n/a	n/a	0.339	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21221
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001048			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.213	n/a	n/a	n/a	n/a	0.213	n/a	U
S09V001048			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.404	n/a	n/a	n/a	n/a	0.404	n/a	U
S09V001048			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.532	n/a	n/a	n/a	n/a	0.532	n/a	U
S09V001048			75-35-4	1,1-Dichloroethene	ug/kg	92.9	<0.340	<0.362	n/a	n/a	n/a	72.1	0.362	n/a	U
S09V001048			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S09V001048			71-36-3	1-Butanol	ug/kg	97.3	<15.5	<16.5	n/a	n/a	n/a	113	16.5	n/a	U
S09V001048			108-10-1	Hexone	ug/kg	118	<1.76	<1.87	n/a	n/a	n/a	122	1.87	n/a	U
S09V001048			67-64-1	Acetone	ug/kg	105	<4.38	<4.66	n/a	n/a	n/a	108	4.66	n/a	U
S09V001048			71-43-2	Benzene	ug/kg	101	<0.320	<0.340	n/a	n/a	n/a	95.4	0.340	n/a	U
S09V001048			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.319	n/a	n/a	n/a	n/a	0.319	n/a	U
S09V001048			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.319	n/a	n/a	n/a	n/a	0.319	n/a	U
S09V001048			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S09V001048			108-90-7	Chlorobenzene	ug/kg	97.4	<0.220	<0.234	n/a	n/a	n/a	98.0	0.234	n/a	U
S09V001048			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.255	n/a	n/a	n/a	n/a	0.255	n/a	U
S09V001048			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.660	n/a	n/a	n/a	n/a	0.660	n/a	U
S09V001048			78-93-3	2-Butanone	ug/kg	112	<2.66	<2.83	n/a	n/a	n/a	119	2.83	n/a	U
S09V001048			75-09-2	Methylenechloride	ug/kg	n/a	0.847	0.852	n/a	n/a	n/a	n/a	0.362	n/a	BJ
S09V001048			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.426	n/a	n/a	n/a	n/a	0.426	n/a	U
S09V001048			108-88-3	Toluene	ug/kg	104	<0.240	<0.255	n/a	n/a	n/a	100	0.255	n/a	U
S09V001048			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V001048			79-01-6	Trichloroethene	ug/kg	99.4	<0.300	<0.319	n/a	n/a	n/a	97.7	0.319	n/a	U
S09V001048			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.681	n/a	n/a	n/a	n/a	0.681	n/a	U
S09V001048			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.277	n/a	n/a	n/a	n/a	0.277	n/a	U
S09V001048			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.383	n/a	n/a	n/a	n/a	0.383	n/a	U
S09V001048			110-54-3	Hexane	ug/kg	n/a	<0.440	5.53	n/a	n/a	n/a	n/a	0.468	n/a	
S09V001048			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.532	n/a	n/a	n/a	n/a	0.532	n/a	U
S09V001048			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.68	n/a	n/a	n/a	n/a	1.68	n/a	U
S09V001048			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<1.03	n/a	n/a	n/a	n/a	1.03	n/a	U

NA = Not Analyzed, ND = Not Detected

J - Estimated
U - Less Than Detection Limit
B - Found in Blank
e - SERDIL Outside Range
c - RPD Outside Range
a - LCS Outside Range
f - MS failed/SERDIL OK
b - MS/MSD Outside Range
E - Outside Calibration Range

C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21221
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001048			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.941	n/a	n/a	n/a	n/a	0.941	n/a	U
S09V001048			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<2.06	n/a	n/a	n/a	n/a	2.06	n/a	U
S09V001048			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.213	n/a	n/a	n/a	n/a	0.213	n/a	U
S09V001048			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.447	n/a	n/a	n/a	n/a	0.447	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21222
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001069			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.185	n/a	n/a	n/a	n/a	0.185	n/a	U
S09V001069			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.352	n/a	n/a	n/a	n/a	0.352	n/a	U
S09V001069			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.463	n/a	n/a	n/a	n/a	0.463	n/a	U
S09V001069			75-35-4	1,1-Dichloroethene	ug/kg	92.9	<0.340	<0.315	n/a	n/a	n/a	n/a	0.315	n/a	U
S09V001069			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001069			71-36-3	1-Butanol	ug/kg	97.3	<15.5	<14.4	n/a	n/a	n/a	n/a	14.4	n/a	U
S09V001069			108-10-1	Hexone	ug/kg	118	<1.76	<1.63	n/a	n/a	n/a	n/a	1.63	n/a	U
S09V001069			67-64-1	Acetone	ug/kg	105	<4.38	<4.06	n/a	n/a	n/a	n/a	4.06	n/a	U
S09V001069			71-43-2	Benzene	ug/kg	101	<0.320	<0.296	n/a	n/a	n/a	n/a	0.296	n/a	U
S09V001069			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001069			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001069			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001069			108-90-7	Chlorobenzene	ug/kg	97.4	<0.220	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S09V001069			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V001069			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.574	n/a	n/a	n/a	n/a	0.574	n/a	U
S09V001069			78-93-3	2-Butanone	ug/kg	112	<2.66	<2.46	n/a	n/a	n/a	n/a	2.46	n/a	U
S09V001069			75-09-2	Methylenechloride	ug/kg	n/a	0.847	0.635	n/a	n/a	n/a	n/a	0.315	n/a	BJ
S09V001069			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.370	n/a	n/a	n/a	n/a	0.370	n/a	U
S09V001069			100-42-5	Styrene	ug/kg	n/a	<0.200	0.311	n/a	n/a	n/a	n/a	0.185	n/a	J
S09V001069			108-88-3	Toluene	ug/kg	104	<0.240	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V001069			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.130	n/a	n/a	n/a	n/a	0.130	n/a	U
S09V001069			79-01-6	Trichloroethene	ug/kg	99.4	<0.300	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001069			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.593	n/a	n/a	n/a	n/a	0.593	n/a	U
S09V001069			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.241	n/a	n/a	n/a	n/a	0.241	n/a	U
S09V001069			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.333	n/a	n/a	n/a	n/a	0.333	n/a	U
S09V001069			110-54-3	Hexane	ug/kg	n/a	<0.440	2.28	n/a	n/a	n/a	n/a	0.407	n/a	J
S09V001069			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.463	n/a	n/a	n/a	n/a	0.463	n/a	U
S09V001069			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.46	n/a	n/a	n/a	n/a	1.46	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21222
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001069			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.900	n/a	n/a	n/a	n/a	0.900	n/a	U
S09V001069			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.819	n/a	n/a	n/a	n/a	0.819	n/a	U
S09V001069			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.80	n/a	n/a	n/a	n/a	1.80	n/a	U
S09V001069			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.185	n/a	n/a	n/a	n/a	0.185	n/a	U
S09V001069			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.389	n/a	n/a	n/a	n/a	0.389	n/a	U

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a - LCS Outside Range
B - Found in Blank
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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L0
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001051			%WATERA	%WATER-APD	%	n/a	n/a	1.629	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001051			57-12-5	Cyanide	ug/g	94.1	<0.0370	<5.21	<1.57	n/a	n/a	70.1	5.21	n/a	Ub
S09V001051			7439-97-6	Mercury	ug/g	101	<1.00E-04	<0.0201	n/a	n/a	n/a	n/a	0.0201	n/a	U
S09V001051			PH	pH	unitless	n/a	n/a	8.62	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001051			18496-25-8	Sulfide	ug/g	98.0	<0.180	18.2	18.0	18.1	1.11	98.3	7.03	n/a	J
S09V001067		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.69E-07	<4.05E-07	n/a	n/a	n/a	n/a	4.05E-07	n/a	U
S09V001067		E	14596-10-2	Americium-241	uCi/g	101	<1.17E-06	<1.01E-06	n/a	n/a	n/a	n/a	1.01E-06	n/a	U
S09V001067		E	15510-73-3	Curium-242	uCi/g	n/a	<4.69E-07	<4.05E-07	n/a	n/a	n/a	n/a	4.05E-07	n/a	U
S09V001067		E	13981-37-8	Nickel-63	uCi/g	89.0	<5.65E-05	<5.05E-05	n/a	n/a	n/a	n/a	5.05E-05	n/a	U
S09V001067		E	PU-239/240	Plutonium-239/240	uCi/g	99.6	<6.99E-07	<5.87E-07	n/a	n/a	n/a	n/a	5.87E-07	n/a	U
S09V001067		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.99E-07	<5.87E-07	n/a	n/a	n/a	n/a	5.87E-07	n/a	U
S09V001067		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.51E-06	<2.70E-06	n/a	n/a	n/a	n/a	2.70E-06	n/a	U
S09V001067		E	SR-89/90	Strontium-89/90	uCi/g	95.9	<2.74E-06	<1.99E-06	n/a	n/a	n/a	n/a	1.99E-06	n/a	U
S09V001055			13966-00-2	Potassium-40	uCi/g	n/a	<6.09E-06	1.28E-05	n/a	n/a	n/a	n/a	5.31E-06	28.40	
S09V001055			10198-40-0	Cobalt-60	uCi/g	101	<2.38E-07	<2.69E-07	n/a	n/a	n/a	n/a	2.69E-07	n/a	U
S09V001055			14234-35-6	Antimony-125	uCi/g	n/a	<6.34E-07	<8.24E-07	n/a	n/a	n/a	n/a	8.24E-07	n/a	U
S09V001055			10045-97-3	Cesium-137	uCi/g	100	<3.12E-07	4.75E-06	n/a	n/a	n/a	n/a	3.18E-07	8.51	
S09V001055			14683-23-9	Europium-152	uCi/g	n/a	<1.19E-06	<1.35E-06	n/a	n/a	n/a	n/a	1.35E-06	n/a	U
S09V001055			15585-10-1	Europium-154	uCi/g	n/a	<7.37E-07	<9.35E-07	n/a	n/a	n/a	n/a	9.35E-07	n/a	U
S09V001055			14391-16-3	Europium-155	uCi/g	n/a	<3.82E-07	<4.79E-07	n/a	n/a	n/a	n/a	4.79E-07	n/a	U
S09V001055			14274-82-9	Thorium-228	uCi/g	n/a	<6.78E-06	<8.85E-06	n/a	n/a	n/a	n/a	8.85E-06	n/a	U
S09V001055			15065-10-8	Thorium-234	uCi/g	n/a	<2.27E-06	<2.97E-06	n/a	n/a	n/a	n/a	2.97E-06	n/a	U
S09V001055			15046-84-1	Iodine-129	uCi/g	93.6	<2.57E-07	<2.49E-07	n/a	n/a	n/a	n/a	2.49E-07	n/a	U
S09V001057		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	71.3	<77.4	<75.0	n/a	n/a	n/a	71.9	75.0	n/a	U
S09V001057		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<97.6	n/a	n/a	n/a	n/a	97.6	n/a	U
S09V001057		O	106-46-7	1,4-Dichlorobenzene	ug/kg	70.1	<113	<110	n/a	n/a	n/a	68.3	110	n/a	U
S09V001057		O	121-14-2	2,4-Dinitrotoluene	ug/kg	72.9	<38.1	<36.9	n/a	n/a	n/a	71.7	36.9	n/a	U
S09V001057		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<42.6	n/a	n/a	n/a	n/a	42.6	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L0
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001057		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.0	n/a	n/a	n/a	n/a	48.0	n/a	U
S09V001057		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<55.7	n/a	n/a	n/a	n/a	55.7	n/a	U
S09V001057		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S09V001057		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S09V001057		O	83-32-9	Acenaphthene	ug/kg	75.3	<17.6	<17.1	n/a	n/a	n/a	79.5	17.1	n/a	U
S09V001057		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S09V001057		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U
S09V001057		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.9	n/a	n/a	n/a	n/a	39.9	n/a	U
S09V001057		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<572	n/a	n/a	n/a	n/a	572	n/a	U
S09V001057		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S09V001057		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S09V001057		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	70.4	<43.2	<41.9	n/a	n/a	n/a	75.8	41.9	n/a	U
S09V001057		O	95-57-8	2-Chlorophenol	ug/kg	72.5	<66.5	<64.4	n/a	n/a	n/a	71.7	64.4	n/a	U
S09V001057		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<78.9	n/a	n/a	n/a	n/a	78.9	n/a	U
S09V001057		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S09V001057		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<545	n/a	n/a	n/a	n/a	545	n/a	U
S09V001057		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.2	n/a	n/a	n/a	n/a	46.2	n/a	U
S09V001057		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	69.3	<58.1	<56.3	n/a	n/a	n/a	69.1	56.3	n/a	U
S09V001057		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.3	n/a	n/a	n/a	n/a	34.3	n/a	U
S09V001057		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<67.5	n/a	n/a	n/a	n/a	67.5	n/a	U
S09V001057		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V001057		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S09V001057		O	108-95-2	Phenol	ug/kg	73.4	<59.4	<57.6	n/a	n/a	n/a	73.3	57.6	n/a	U
S09V001057		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<60.6	n/a	n/a	n/a	n/a	60.6	n/a	U
S09V001057		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S09V001057		O	100-02-7	4-Nitrophenol	ug/kg	77.6	<52.6	<51.0	n/a	n/a	n/a	76.5	51.0	n/a	U
S09V001057		O	87-86-5	Pentachlorophenol	ug/kg	72.2	<37.5	<36.3	n/a	n/a	n/a	76.4	36.3	n/a	U
S09V001057		O	129-00-0	Pyrene	ug/kg	80.9	<62.9	<60.9	n/a	n/a	n/a	87.0	60.9	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L0
Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001057	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<63.0	n/a	n/a	n/a	n/a	63.0	n/a	U
S09V001057	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V001057	O	128-37-0	BHT	ug/kg	n/a	<236	<228	n/a	n/a	n/a	n/a	228	n/a	U
S09V001057	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<177	n/a	n/a	n/a	n/a	177	n/a	U
S09V001057	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U
S09V001057	O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<542	n/a	n/a	n/a	n/a	542	n/a	U
S09V001057	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<185	n/a	n/a	n/a	n/a	185	n/a	U
S09V001057	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<446	n/a	n/a	n/a	n/a	446	n/a	U
S09V001059	W	14762-75-5	Carbon-14	uCi/g	100	<4.82E-05	<4.90E-05	<5.10E-05	n/a	n/a	92.6	4.90E-05	n/a	U
S09V001059	W	10028-17-8	Tritium	uCi/g	96.7	<1.49E-06	<4.01E-04	<3.62E-04	n/a	n/a	99.3	4.01E-04	n/a	U
S09V001061	A	7429-90-5	Aluminum	ug/g	88.4	<0.0300	6.62E+03	7.21E+03	6.92E+03	8.65	409	5.91	n/a	
S09V001061	A	7440-39-3	Barium	ug/g	88.8	<3.00E-03	107	113	110	5.15	90.8	0.591	n/a	
S09V001061	A	7440-41-7	Beryllium	ug/g	91.8	<1.00E-03	0.298	0.337	0.317	12.2	94.0	0.197	n/a	J
S09V001061	A	7440-70-2	Calcium	ug/g	85.3	0.0503	6.88E+03	7.31E+03	7.10E+03	5.99	346	9.86	n/a	
S09V001061	A	7440-45-1	Cerium	ug/g	89.0	<0.0300	26.2	27.5	26.9	5.03	92.3	5.91	n/a	J
S09V001061	A	7440-48-4	Cobalt	ug/g	85.9	<0.0100	8.76	8.82	8.79	0.718	92.1	1.97	n/a	J
S09V001061	A	7440-47-3	Chromium	ug/g	86.5	<5.00E-03	7.99	8.58	8.28	7.14	91.7	0.986	n/a	
S09V001061	A	7440-50-8	Copper	ug/g	89.7	<5.00E-03	10.9	11.8	11.3	8.35	92.3	0.986	n/a	
S09V001061	A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	2.44E+04	2.52E+04	2.48E+04	2.91	-60.3	0.986	n/a	
S09V001061	A	7440-09-7	Potassium	ug/g	85.0	<0.500	1.30E+03	1.42E+03	1.36E+03	9.06	104	98.6	n/a	
S09V001061	A	7439-91-0	Lanthanum	ug/g	89.1	<3.00E-03	11.9	13.1	12.5	9.53	93.0	0.591	n/a	
S09V001061	A	7439-93-2	Lithium	ug/g	85.0	<3.00E-03	7.23	8.33	7.78	14.1	95.5	0.591	n/a	
S09V001061	A	7439-95-4	Magnesium	ug/g	83.9	<0.0500	4.41E+03	4.68E+03	4.54E+03	6.00	148	9.86	n/a	
S09V001061	A	7439-96-5	Manganese	ug/g	84.9	<3.00E-03	350	434	392	21.6	97.6	0.591	n/a	
S09V001061	A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<3.94	<3.85	n/a	n/a	91.7	3.94	n/a	U
S09V001061	A	7440-23-5	Sodium	ug/g	81.1	<0.100	270	267	268	1.05	141	19.7	n/a	be
S09V001061	A	7440-00-8	Neodymium	ug/g	92.1	<0.0100	23.9	27.6	25.7	14.2	89.8	1.97	n/a	
S09V001061	A	7723-14-0	Phosphorus	ug/g	91.6	<0.0500	1.01E+03	1.08E+03	1.04E+03	6.60	79.9	9.86	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L0
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001061		A	7440-05-3	Palladium	ug/g	99.5	<0.100	42.3	41.2	41.7	2.59	87.7	19.7	n/a	J
S09V001061		A	7440-10-0	Praseodymium	ug/g	93.3	<0.0100	4.40	3.34	3.87	27.4	90.1	1.97	n/a	J
S09V001061		A	7704-34-9	Sulfur	ug/g	89.8	<0.100	56.8	67.7	62.2	17.5	90.4	19.7	n/a	J
S09V001061		A	7440-21-3	Silicon	ug/g	77.2	0.0302	1.03E+03	7.58E+02	8.93E+02	30.3	244	5.91	n/a	abce
S09V001061		A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	28.8	30.6	29.7	6.15	93.1	0.591	n/a	
S09V001061		A	7440-32-6	Titanium	ug/g	105	<5.00E-03	1.83E+03	2.11E+03	1.97E+03	14.2	95.3	0.986	n/a	
S09V001061		A	7440-61-1	Uranium	ug/g	97.0	<0.100	<19.7	<19.2	n/a	n/a	92.4	19.7	n/a	U
S09V001061		A	7440-33-7	Tungsten	ug/g	88.4	<0.200	55.0	39.9	47.4	31.8	93.1	39.4	n/a	J
S09V001061		A	7440-65-5	Yttrium	ug/g	85.6	<2.00E-03	10.5	11.1	10.8	5.74	84.5	0.394	n/a	
S09V001061		A	7440-66-6	Zinc	ug/g	86.3	<5.00E-03	42.0	45.4	43.7	7.88	89.6	0.986	n/a	
S09V001061		A	7440-67-7	Zirconium	ug/g	87.8	<5.00E-03	21.6	22.8	22.2	5.40	87.7	0.986	n/a	
S09V001061		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.76E-05	<2.69E-05	n/a	n/a	n/a	2.76E-05	n/a	U
S09V001061		A	TH-232	Thorium-232	ug/g	99.7	6.60E-05	5.22	5.01	5.12	4.21	92.0	6.70E-04	n/a	
S09V001061		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	2.29E-04	2.30E-04	2.30E-04	0.730	n/a	3.94E-05	n/a	J
S09V001061		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	4.16E-05	2.58E-05	3.37E-05	47.0	n/a	1.97E-05	n/a	J
S09V001061		A	15117-96-1	Uranium-235	ug/g	92.4	2.57E-07	5.22E-03	4.40E-03	4.81E-03	16.9	98.1	4.34E-05	n/a	
S09V001061		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.58E-05	4.08E-05	n/a	n/a	n/a	1.58E-05	n/a	U
S09V001061		A	U-238	Uranium-238	ug/g	97.2	3.82E-05	0.761	0.629	0.695	19.0	103	2.17E-03	n/a	
S09V001061		A	7440-22-4	Silver	ug/g	105	2.07E-04	0.141	0.150	0.145	6.08	111	0.0315	n/a	BJ
S09V001061		A	7440-38-2	Arsenic	ug/g	92.6	<8.40E-04	3.41	3.58	3.50	4.83	102	0.166	n/a	
S09V001061		A	7440-43-9	Cadmium	ug/g	96.6	<6.00E-04	0.143	0.130	0.136	9.77	104	0.118	n/a	J
S09V001061		A	7439-92-1	Lead	ug/g	102	<6.20E-03	5.24	6.60	5.92	23.1	106	1.22	n/a	J
S09V001061		A	7440-36-0	Antimony	ug/g	101	<8.80E-04	0.182	0.239	0.211	27.4	97.0	0.174	n/a	J
S09V001061		A	7782-49-2	Selenium	ug/g	83.0	<0.0122	<2.41	<2.35	n/a	n/a	93.1	2.41	n/a	U
S09V001061		A	7440-28-0	Thallium	ug/g	99.3	6.64E-05	0.0826	0.110	0.0962	28.1	103	0.0118	n/a	BJ
S09V001061		A	7440-62-2	Vanadium	ug/g	94.1	<4.80E-04	61.3	70.5	65.9	14.0	98.2	0.946	n/a	
S09V001061		A	7440-02-0	Nickel	ug/g	97.8	<2.40E-03	9.88	11.1	10.5	11.4	102	0.473	n/a	
S09V001063		S	14798-03-9	Ammonium	ug/g	97.8	<0.120	2.58	2.51	2.54	3.04	99.4	0.470	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L0
Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001065		A	14133-76-7	Technetium-99	ug/g	97.3	<6.00E-06	<1.12E-03	<1.15E-03	n/a	n/a	108	1.12E-03	n/a	U
S09V001065		A	SN-117	Tin-117	ug/g	99.3	<2.20E-04	<0.0412	<0.0420	n/a	n/a	86.2	0.0412	n/a	U
S09V001065		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.48E-04	<7.65E-04	n/a	n/a	n/a	7.48E-04	n/a	U
S09V001364		W	16984-48-8	Fluoride	ug/g	102	<0.0805	0.670	1.17	0.921	54.5	103	0.0201	n/a	c
S09V001364		W	666-14-8	Glycolate	ug/g	104	<0.468	<0.117	<0.117	n/a	n/a	104	0.117	n/a	U
S09V001364		W	71-50-1	Acetate	ug/g	108	<0.302	0.274	0.288	0.281	4.83	108	0.0755	n/a	J
S09V001364		W	12311-97-6	Formate	ug/g	106	<0.234	0.274	0.341	0.308	21.7	105	0.0583	n/a	J
S09V001364		W	16887-00-6	Chloride	ug/g	102	<0.499	0.465	0.479	0.472	2.96	102	0.125	n/a	J
S09V001364		W	14797-65-0	Nitrite	ug/g	107	<0.960	1.35	1.65	1.50	20.3	107	0.240	n/a	J
S09V001364		W	14808-79-8	Sulfate	ug/g	105	<0.935	2.18	3.10	2.64	34.9	104	0.234	n/a	J
S09V001364		W	338-70-5	Oxalate	ug/g	104	<1.16	0.336	0.662	0.499	65.3	103	0.289	n/a	J
S09V001364		W	24959-67-9	Bromide	ug/g	99.8	<2.90	<0.725	<0.724	n/a	n/a	100	0.725	n/a	U
S09V001364		W	14797-55-8	Nitrate	ug/g	103	<1.04	4.22	4.66	4.44	10.1	104	0.260	n/a	
S09V001364		W	14265-44-2	Phosphate	ug/g	104	<0.835	2.07	2.76	2.42	28.4	103	0.209	n/a	J
S09V001577		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.92E-04	<1.96E-04	n/a	n/a	111	1.92E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L1
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001052			%WATERA	%WATER-APD	%	n/a	n/a	1.632	n/a	n/a	n/a	n/a	0.01000	n/a	
S09V001052			57-12-5	Cyanide	ug/g	94.1	<0.0370	<5.22	n/a	n/a	n/a	n/a	5.22	n/a	Ub
S09V001052			7439-97-6	Mercury	ug/g	103	<1.00E-04	<0.0267	n/a	n/a	n/a	n/a	0.0267	n/a	U
S09V001052			PH	pH	unitless	n/a	n/a	8.50	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V001052			18496-25-8	Sulfide	ug/g	98.0	<0.180	21.7	n/a	n/a	n/a	n/a	7.21	n/a	J
S09V001056			13966-00-2	Potassium-40	uCi/g	n/a	<6.09E-06	1.29E-05	n/a	n/a	n/a	n/a	5.13E-06	27.44	
S09V001056			10198-40-0	Cobalt-60	uCi/g	101	<2.38E-07	<2.58E-07	n/a	n/a	n/a	n/a	2.58E-07	n/a	U
S09V001056			14234-35-6	Antimony-125	uCi/g	n/a	<6.34E-07	<7.05E-07	n/a	n/a	n/a	n/a	7.05E-07	n/a	U
S09V001056			10045-97-3	Cesium-137	uCi/g	100	<3.12E-07	1.31E-06	n/a	n/a	n/a	n/a	3.24E-07	18.81	
S09V001056			14683-23-9	Europium-152	uCi/g	n/a	<1.19E-06	<1.33E-06	n/a	n/a	n/a	n/a	1.33E-06	n/a	U
S09V001056			15585-10-1	Europium-154	uCi/g	n/a	<7.37E-07	<8.77E-07	n/a	n/a	n/a	n/a	8.77E-07	n/a	U
S09V001056			14391-16-3	Europium-155	uCi/g	n/a	<3.82E-07	<4.67E-07	n/a	n/a	n/a	n/a	4.67E-07	n/a	U
S09V001056			15092-94-1	Lead-212	uCi/g	n/a	<3.65E-07	7.53E-07	n/a	n/a	n/a	n/a	5.24E-07	28.86	
S09V001056			14274-82-9	Thorium-228	uCi/g	n/a	<6.78E-06	<8.55E-06	n/a	n/a	n/a	n/a	8.55E-06	n/a	U
S09V001056			15065-10-8	Thorium-234	uCi/g	n/a	<2.27E-06	<2.90E-06	n/a	n/a	n/a	n/a	2.90E-06	n/a	U
S09V001056			15046-84-1	Iodine-129	uCi/g	93.6	<2.57E-07	<2.99E-07	n/a	n/a	n/a	n/a	2.99E-07	n/a	U
S09V001058		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	71.3	<77.4	<70.5	n/a	n/a	n/a	n/a	70.5	n/a	U
S09V001058		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<91.8	n/a	n/a	n/a	n/a	91.8	n/a	U
S09V001058		O	106-46-7	1,4-Dichlorobenzene	ug/kg	70.1	<113	<103	n/a	n/a	n/a	n/a	103	n/a	U
S09V001058		O	121-14-2	2,4-Dinitrotoluene	ug/kg	72.9	<38.1	<34.7	n/a	n/a	n/a	n/a	34.7	n/a	U
S09V001058		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<40.1	n/a	n/a	n/a	n/a	40.1	n/a	U
S09V001058		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<45.1	n/a	n/a	n/a	n/a	45.1	n/a	U
S09V001058		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<52.4	n/a	n/a	n/a	n/a	52.4	n/a	U
S09V001058		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U
S09V001058		O	108-39-4a	3 & 4 Methylphenol Total	ug/kg	n/a	<51.4	<46.8	n/a	n/a	n/a	n/a	46.8	n/a	U
S09V001058		O	83-32-9	Acenaphthene	ug/kg	75.3	<17.6	<16.0	n/a	n/a	n/a	n/a	16.0	n/a	U
S09V001058		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<34.5	n/a	n/a	n/a	n/a	34.5	n/a	U
S09V001058		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<44.6	n/a	n/a	n/a	n/a	44.6	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L1
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001058	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S09V001058	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<538	n/a	n/a	n/a	n/a	538	n/a	U
S09V001058	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<35.6	n/a	n/a	n/a	n/a	35.6	n/a	U
S09V001058	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<45.6	n/a	n/a	n/a	n/a	45.6	n/a	U
S09V001058	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	70.4	<43.2	<39.4	n/a	n/a	n/a	n/a	39.4	n/a	U
S09V001058	O	95-57-8	2-Chlorophenol	ug/kg	72.5	<66.5	<60.6	n/a	n/a	n/a	n/a	60.6	n/a	U
S09V001058	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<74.2	n/a	n/a	n/a	n/a	74.2	n/a	U
S09V001058	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<46.6	n/a	n/a	n/a	n/a	46.6	n/a	U
S09V001058	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<512	n/a	n/a	n/a	n/a	512	n/a	U
S09V001058	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S09V001058	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	69.3	<58.1	<53.0	n/a	n/a	n/a	n/a	53.0	n/a	U
S09V001058	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<32.3	n/a	n/a	n/a	n/a	32.3	n/a	U
S09V001058	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<63.5	n/a	n/a	n/a	n/a	63.5	n/a	U
S09V001058	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<102	n/a	n/a	n/a	n/a	102	n/a	U
S09V001058	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<46.5	n/a	n/a	n/a	n/a	46.5	n/a	U
S09V001058	O	108-95-2	Phenol	ug/kg	73.4	<59.4	<54.1	n/a	n/a	n/a	n/a	54.1	n/a	U
S09V001058	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<57.1	n/a	n/a	n/a	n/a	57.1	n/a	U
S09V001058	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<58.9	n/a	n/a	n/a	n/a	58.9	n/a	U
S09V001058	O	100-02-7	4-Nitrophenol	ug/kg	77.6	<52.6	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S09V001058	O	87-86-5	Pentachlorophenol	ug/kg	72.2	<37.5	<34.2	n/a	n/a	n/a	n/a	34.2	n/a	U
S09V001058	O	129-00-0	Pyrene	ug/kg	80.9	<62.9	<57.3	n/a	n/a	n/a	n/a	57.3	n/a	U
S09V001058	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<59.2	n/a	n/a	n/a	n/a	59.2	n/a	U
S09V001058	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<98.2	n/a	n/a	n/a	n/a	98.2	n/a	U
S09V001058	O	128-37-0	BHT	ug/kg	n/a	<236	<215	n/a	n/a	n/a	n/a	215	n/a	U
S09V001058	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<166	n/a	n/a	n/a	n/a	166	n/a	U
S09V001058	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<97.2	n/a	n/a	n/a	n/a	97.2	n/a	U
S09V001058	O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<510	n/a	n/a	n/a	n/a	510	n/a	U
S09V001058	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<174	n/a	n/a	n/a	n/a	174	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L1
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001058	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<420	n/a	n/a	n/a	n/a	420	n/a	U
S09V001060	W	14762-75-5	Carbon-14	uCi/g	100	<4.82E-05	<7.84E-05	n/a	n/a	n/a	n/a	7.84E-05	n/a	U
S09V001060	W	10028-17-8	Tritium	uCi/g	96.7	<1.49E-06	<2.85E-04	n/a	n/a	n/a	n/a	2.85E-04	n/a	U
S09V001062	A	7429-90-5	Aluminum	ug/g	88.4	<0.0300	7.00E+03	n/a	n/a	n/a	n/a	5.63	n/a	
S09V001062	A	7440-39-3	Barium	ug/g	88.8	<3.00E-03	129	n/a	n/a	n/a	n/a	0.563	n/a	
S09V001062	A	7440-41-7	Beryllium	ug/g	91.8	<1.00E-03	0.276	n/a	n/a	n/a	n/a	0.188	n/a	J
S09V001062	A	7440-70-2	Calcium	ug/g	85.3	0.0503	7.31E+03	n/a	n/a	n/a	n/a	9.38	n/a	
S09V001062	A	7440-45-1	Cerium	ug/g	89.0	<0.0300	22.6	n/a	n/a	n/a	n/a	5.63	n/a	J
S09V001062	A	7440-48-4	Cobalt	ug/g	85.9	<0.0100	7.83	n/a	n/a	n/a	n/a	1.88	n/a	J
S09V001062	A	7440-47-3	Chromium	ug/g	86.5	<5.00E-03	8.19	n/a	n/a	n/a	n/a	0.938	n/a	
S09V001062	A	7440-50-8	Copper	ug/g	89.7	<5.00E-03	11.0	n/a	n/a	n/a	n/a	0.938	n/a	
S09V001062	A	7440-53-1	Europium	ug/g	88.8	<5.00E-03	1.34	n/a	n/a	n/a	n/a	0.938	n/a	J
S09V001062	A	7439-89-6	Iron	ug/g	86.7	<5.00E-03	2.33E+04	n/a	n/a	n/a	n/a	0.938	n/a	
S09V001062	A	7440-09-7	Potassium	ug/g	85.0	<0.500	1.42E+03	n/a	n/a	n/a	n/a	93.8	n/a	
S09V001062	A	7439-91-0	Lanthanum	ug/g	89.1	<3.00E-03	11.6	n/a	n/a	n/a	n/a	0.563	n/a	
S09V001062	A	7439-93-2	Lithium	ug/g	85.0	<3.00E-03	7.80	n/a	n/a	n/a	n/a	0.563	n/a	
S09V001062	A	7439-95-4	Magnesium	ug/g	83.9	<0.0500	4.67E+03	n/a	n/a	n/a	n/a	9.38	n/a	
S09V001062	A	7439-96-5	Manganese	ug/g	84.9	<3.00E-03	500	n/a	n/a	n/a	n/a	0.563	n/a	
S09V001062	A	7439-98-7	Molybdenum	ug/g	89.9	<0.0200	<3.75	n/a	n/a	n/a	n/a	3.75	n/a	U
S09V001062	A	7440-23-5	Sodium	ug/g	81.1	<0.100	248	n/a	n/a	n/a	n/a	18.8	n/a	b
S09V001062	A	7440-00-8	Neodymium	ug/g	92.1	<0.0100	23.3	n/a	n/a	n/a	n/a	1.88	n/a	
S09V001062	A	7723-14-0	Phosphorus	ug/g	91.6	<0.0500	907	n/a	n/a	n/a	n/a	9.38	n/a	
S09V001062	A	7440-05-3	Palladium	ug/g	99.5	<0.100	73.3	n/a	n/a	n/a	n/a	18.8	n/a	J
S09V001062	A	7440-10-0	Praseodymium	ug/g	93.3	<0.0100	4.50	n/a	n/a	n/a	n/a	1.88	n/a	J
S09V001062	A	7704-34-9	Sulfur	ug/g	89.8	<0.100	73.1	n/a	n/a	n/a	n/a	18.8	n/a	J
S09V001062	A	7440-21-3	Silicon	ug/g	77.2	0.0302	959	n/a	n/a	n/a	n/a	5.63	n/a	abc
S09V001062	A	7440-31-5	Tin	ug/g	81.0	<0.0300	6.36	n/a	n/a	n/a	n/a	5.63	n/a	J
S09V001062	A	7440-24-6	Strontium	ug/g	88.7	<3.00E-03	30.7	n/a	n/a	n/a	n/a	0.563	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L1
Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001062	A	7440-32-6	Titanium	ug/g	105	<5.00E-03	1.89E+03	n/a	n/a	n/a	n/a	0.938	n/a	
S09V001062	A	7440-61-1	Uranium	ug/g	97.0	<0.100	<18.8	n/a	n/a	n/a	n/a	18.8	n/a	U
S09V001062	A	7440-33-7	Tungsten	ug/g	88.4	<0.200	38.4	n/a	n/a	n/a	n/a	37.5	n/a	J
S09V001062	A	7440-65-5	Yttrium	ug/g	85.6	<2.00E-03	9.57	n/a	n/a	n/a	n/a	0.375	n/a	
S09V001062	A	7440-66-6	Zinc	ug/g	86.3	<5.00E-03	43.1	n/a	n/a	n/a	n/a	0.938	n/a	
S09V001062	A	7440-67-7	Zirconium	ug/g	87.8	<5.00E-03	20.8	n/a	n/a	n/a	n/a	0.938	n/a	
S09V001062	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.63E-05	n/a	n/a	n/a	n/a	2.63E-05	n/a	U
S09V001062	A	TH-232	Thorium-232	ug/g	99.7	6.60E-05	2.98	n/a	n/a	n/a	n/a	6.38E-04	n/a	
S09V001062	A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	9.36E-05	n/a	n/a	n/a	n/a	3.75E-05	n/a	J
S09V001062	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.88E-05	n/a	n/a	n/a	n/a	1.88E-05	n/a	U
S09V001062	A	15117-96-1	Uranium-235	ug/g	92.4	2.57E-07	3.35E-03	n/a	n/a	n/a	n/a	4.13E-05	n/a	
S09V001062	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.50E-05	n/a	n/a	n/a	n/a	1.50E-05	n/a	U
S09V001062	A	U-238	Uranium-238	ug/g	97.2	3.82E-05	0.452	n/a	n/a	n/a	n/a	2.06E-03	n/a	
S09V001062	A	7440-22-4	Silver	ug/g	105	2.07E-04	0.122	n/a	n/a	n/a	n/a	0.0300	n/a	BJ
S09V001062	A	7440-38-2	Arsenic	ug/g	92.6	<8.40E-04	3.04	n/a	n/a	n/a	n/a	0.158	n/a	
S09V001062	A	7440-43-9	Cadmium	ug/g	96.6	<6.00E-04	<0.113	n/a	n/a	n/a	n/a	0.113	n/a	U
S09V001062	A	7439-92-1	Lead	ug/g	102	<6.20E-03	6.20	n/a	n/a	n/a	n/a	1.16	n/a	J
S09V001062	A	7440-36-0	Antimony	ug/g	101	<8.80E-04	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U
S09V001062	A	7782-49-2	Selenium	ug/g	83.0	<0.0122	<2.29	n/a	n/a	n/a	n/a	2.29	n/a	U
S09V001062	A	7440-28-0	Thallium	ug/g	99.3	6.64E-05	0.113	n/a	n/a	n/a	n/a	0.0113	n/a	B
S09V001062	A	7440-62-2	Vanadium	ug/g	94.1	<4.80E-04	68.5	n/a	n/a	n/a	n/a	0.901	n/a	
S09V001062	A	7440-02-0	Nickel	ug/g	97.8	<2.40E-03	12.4	n/a	n/a	n/a	n/a	0.450	n/a	
S09V001064	S	14798-03-9	Ammonium	ug/g	97.8	<0.120	2.70	n/a	n/a	n/a	n/a	0.477	n/a	J
S09V001066	A	14133-76-7	Technetium-99	ug/g	97.3	<6.00E-06	<1.12E-03	n/a	n/a	n/a	n/a	1.12E-03	n/a	U
S09V001066	A	SN-117	Tin-117	ug/g	99.3	<2.20E-04	<0.0411	n/a	n/a	n/a	n/a	0.0411	n/a	U
S09V001066	A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.47E-04	n/a	n/a	n/a	n/a	7.47E-04	n/a	U
S09V001068	E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.69E-07	<4.57E-07	n/a	n/a	n/a	n/a	4.57E-07	n/a	U
S09V001068	E	14596-10-2	Americium-241	uCi/g	101	<1.17E-06	<1.14E-06	n/a	n/a	n/a	n/a	1.14E-06	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L1
Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001068		E	15510-73-3	Curium-242	uCi/g	n/a	<4.69E-07	<4.57E-07	n/a	n/a	n/a	n/a	4.57E-07	n/a	U
S09V001068		E	13981-37-8	Nickel-63	uCi/g	89.0	<5.65E-05	<4.91E-05	n/a	n/a	n/a	n/a	4.91E-05	n/a	U
S09V001068		E	PU-239/240	Plutonium-239/240	uCi/g	99.6	<6.99E-07	<6.25E-07	n/a	n/a	n/a	n/a	6.25E-07	n/a	U
S09V001068		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.99E-07	<6.25E-07	n/a	n/a	n/a	n/a	6.25E-07	n/a	U
S09V001068		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.51E-06	<1.36E-06	n/a	n/a	n/a	n/a	1.36E-06	n/a	U
S09V001068		E	SR-89/90	Strontium-89/90	uCi/g	95.9	<2.74E-06	<2.47E-06	n/a	n/a	n/a	n/a	2.47E-06	n/a	U
S09V001365		W	16984-48-8	Fluoride	ug/g	102	<0.0805	1.07	n/a	n/a	n/a	n/a	0.0201	n/a	c
S09V001365		W	666-14-8	Glycolate	ug/g	104	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001365		W	71-50-1	Acetate	ug/g	108	<0.302	<0.0754	n/a	n/a	n/a	n/a	0.0754	n/a	U
S09V001365		W	12311-97-6	Formate	ug/g	106	<0.234	0.364	n/a	n/a	n/a	n/a	0.0583	n/a	J
S09V001365		W	16887-00-6	Chloride	ug/g	102	<0.499	0.539	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001365		W	14797-65-0	Nitrite	ug/g	107	<0.960	4.08	n/a	n/a	n/a	n/a	0.240	n/a	
S09V001365		W	14808-79-8	Sulfate	ug/g	105	<0.935	2.94	n/a	n/a	n/a	n/a	0.233	n/a	J
S09V001365		W	338-70-5	Oxalate	ug/g	104	<1.16	0.758	n/a	n/a	n/a	n/a	0.288	n/a	J
S09V001365		W	24959-67-9	Bromide	ug/g	99.8	<2.90	<0.724	n/a	n/a	n/a	n/a	0.724	n/a	U
S09V001365		W	14797-55-8	Nitrate	ug/g	103	<1.04	5.34	n/a	n/a	n/a	n/a	0.260	n/a	
S09V001365		W	14265-44-2	Phosphate	ug/g	104	<0.835	2.79	n/a	n/a	n/a	n/a	0.208	n/a	J
S09V001578		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.82E-04	n/a	n/a	n/a	n/a	1.82E-04	n/a	U

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J - Estimated
c - RPD Outside Range
E - Outside Calibration Range
U - Less Than Detection Limit
a - LCS Outside Range
B - Found in Blank
f - MS failed/SERDIL OK
e - SERDIL Outside Range
b - MS/MSD Outside Range

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C Farm WMA C
Data Summary Report

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21737
Sample Depth: Trip Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001043		71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001043		79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V001043		79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001043		75-35-4	1,1-Dichloroethene	ug/L	84.4	<0.170	<0.189	n/a	n/a	n/a	71.4	0.189	n/a	U
S09V001043		107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001043		71-36-3	1-Butanol	ug/L	91.1	<7.77	<8.63	n/a	n/a	n/a	102	8.63	n/a	U
S09V001043		108-10-1	Hexone	ug/L	114	<0.880	<0.978	n/a	n/a	n/a	115	0.978	n/a	U
S09V001043		67-64-1	Acetone	ug/L	102	2.59	<2.43	n/a	n/a	n/a	98.7	2.43	n/a	U
S09V001043		71-43-2	Benzene	ug/L	101	<0.160	<0.178	n/a	n/a	n/a	97.9	0.178	n/a	U
S09V001043		75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001043		56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001043		67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001043		108-90-7	Chlorobenzene	ug/L	101	<0.110	<0.122	n/a	n/a	n/a	98.7	0.122	n/a	U
S09V001043		100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V001043		1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V001043		78-93-3	2-Butanone	ug/L	108	<1.33	<1.48	n/a	n/a	n/a	112	1.48	n/a	U
S09V001043		75-09-2	Methylenechloride	ug/L	n/a	0.402	182	n/a	n/a	n/a	n/a	0.189	n/a	E
S09V001043		127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V001043		108-88-3	Toluene	ug/L	103	<0.120	0.606	n/a	n/a	n/a	96.6	0.133	n/a	J
S09V001043		10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V001043		79-01-6	Trichloroethene	ug/L	102	<0.150	<0.167	n/a	n/a	n/a	96.4	0.167	n/a	U
S09V001043		75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V001043		156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V001043		156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V001043		110-54-3	Hexane	ug/L	n/a	<0.270	0.852	n/a	n/a	n/a	n/a	0.300	n/a	J
S09V001043		76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001043		79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V001043		141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U

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B - Found in Blank
e - SERDIL Outside Range
c - RPD Outside Range
a - LCS Outside Range
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b - MS/MSD Outside Range
E - Outside Calibration Range

C Farm WMA C
Data Summary Report

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21737
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001043			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U
S09V001043			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V001043			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001043			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21738
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001044			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001044			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V001044			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001044			75-35-4	1,1-Dichloroethene	ug/L	84.4	<0.170	<0.189	n/a	n/a	n/a	n/a	0.189	n/a	U
S09V001044			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001044			71-36-3	1-Butanol	ug/L	91.1	<7.77	<8.63	n/a	n/a	n/a	n/a	8.63	n/a	U
S09V001044			108-10-1	Hexone	ug/L	114	<0.880	<0.978	n/a	n/a	n/a	n/a	0.978	n/a	U
S09V001044			67-64-1	Acetone	ug/L	102	2.59	<2.43	n/a	n/a	n/a	n/a	2.43	n/a	U
S09V001044			71-43-2	Benzene	ug/L	101	<0.160	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S09V001044			75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001044			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001044			67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001044			108-90-7	Chlorobenzene	ug/L	101	<0.110	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S09V001044			100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V001044			1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V001044			78-93-3	2-Butanone	ug/L	108	<1.33	<1.48	n/a	n/a	n/a	n/a	1.48	n/a	U
S09V001044			75-09-2	Methylenechloride	ug/L	n/a	0.402	2.19	n/a	n/a	n/a	n/a	0.189	n/a	B
S09V001044			127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V001044			108-88-3	Toluene	ug/L	103	<0.120	0.209	n/a	n/a	n/a	n/a	0.133	n/a	J
S09V001044			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V001044			79-01-6	Trichloroethene	ug/L	102	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001044			75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V001044			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V001044			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V001044			110-54-3	Hexane	ug/L	n/a	<0.270	0.527	n/a	n/a	n/a	n/a	0.300	n/a	J
S09V001044			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001044			79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V001044			141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U

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e - SERDIL Outside Range
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a - LCS Outside Range
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b - MS/MSD Outside Range
E - Outside Calibration Range

C Farm WMA C
Data Summary Report

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21738
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001044			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U
S09V001044			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V001044			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001044			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

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b - MS/MSD Outside Range
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C Farm WMA C
Data Summary Report

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21739
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001045			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001045			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V001045			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001045			75-35-4	1,1-Dichloroethene	ug/L	93.7	<0.170	<0.189	n/a	n/a	n/a	92.1	0.189	n/a	U
S09V001045			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001045			71-36-3	1-Butanol	ug/L	93.8	<7.77	<8.63	n/a	n/a	n/a	86.4	8.63	n/a	U
S09V001045			108-10-1	Hexone	ug/L	125	<0.880	<0.978	n/a	n/a	n/a	114	0.978	n/a	U
S09V001045			67-64-1	Acetone	ug/L	119	13.1	<2.43	n/a	n/a	n/a	71.0	2.43	n/a	Uc
S09V001045			71-43-2	Benzene	ug/L	90.1	<0.160	<0.178	n/a	n/a	n/a	87.7	0.178	n/a	U
S09V001045			75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001045			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001045			67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001045			108-90-7	Chlorobenzene	ug/L	104	<0.110	<0.122	n/a	n/a	n/a	103	0.122	n/a	U
S09V001045			100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V001045			1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V001045			78-93-3	2-Butanone	ug/L	93.0	<1.33	<1.48	n/a	n/a	n/a	85.4	1.48	n/a	U
S09V001045			75-09-2	Methylenechloride	ug/L	n/a	<0.170	192	n/a	n/a	n/a	n/a	0.189	n/a	EJ
S09V001045			127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V001045			108-88-3	Toluene	ug/L	109	<0.120	<0.133	n/a	n/a	n/a	104	0.133	n/a	U
S09V001045			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V001045			79-01-6	Trichloroethene	ug/L	83.9	<0.150	<0.167	n/a	n/a	n/a	82.3	0.167	n/a	U
S09V001045			75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V001045			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V001045			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V001045			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001045			79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V001045			141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V001045			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U

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b - MS/MSD Outside Range
E - Outside Calibration Range

C Farm WMA C
Data Summary Report

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21739
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001045			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V001045			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001045			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21740
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001046			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001046			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V001046			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001046			75-35-4	1,1-Dichloroethene	ug/L	94.0	<0.170	<0.189	n/a	n/a	n/a	93.4	0.189	n/a	U
S09V001046			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001046			71-36-3	1-Butanol	ug/L	98.9	<7.77	<8.63	n/a	n/a	n/a	96.0	8.63	n/a	U
S09V001046			108-10-1	Hexone	ug/L	104	<0.880	<0.978	n/a	n/a	n/a	98.9	0.978	n/a	U
S09V001046			67-64-1	Acetone	ug/L	112	<2.19	<2.43	n/a	n/a	n/a	63.1	2.43	n/a	Ub
S09V001046			71-43-2	Benzene	ug/L	91.9	<0.160	<0.178	n/a	n/a	n/a	87.7	0.178	n/a	U
S09V001046			75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001046			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001046			67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001046			108-90-7	Chlorobenzene	ug/L	94.6	<0.110	<0.122	n/a	n/a	n/a	94.7	0.122	n/a	U
S09V001046			100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V001046			1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V001046			78-93-3	2-Butanone	ug/L	96.6	<1.33	<1.48	n/a	n/a	n/a	86.8	1.48	n/a	U
S09V001046			75-09-2	Methylenechloride	ug/L	n/a	1.66	3.07	n/a	n/a	n/a	n/a	0.189	n/a	B
S09V001046			127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V001046			108-88-3	Toluene	ug/L	92.6	0.334	0.183	n/a	n/a	n/a	89.3	0.133	n/a	BJ
S09V001046			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V001046			79-01-6	Trichloroethene	ug/L	90.4	<0.150	<0.167	n/a	n/a	n/a	85.2	0.167	n/a	U
S09V001046			75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V001046			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V001046			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V001046			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001046			79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V001046			141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V001046			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U

NA = Not Analyzed, ND = Not Detected

J - Estimated
U - Less Than Detection Limit
B - Found in Blank
e - SERDIL Outside Range
c - RPD Outside Range
a - LCS Outside Range
f - MS failed/SERDIL OK
b - MS/MSD Outside Range
E - Outside Calibration Range

C Farm WMA C
Data Summary Report

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21740
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001046			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V001046			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001046			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

NA = Not Analyzed, ND = Not Detected

J - Estimated
c - RPD Outside Range
E - Outside Calibration Range
U - Less Than Detection Limit
a - LCS Outside Range
B - Found in Blank
f - MS failed/SERDIL OK
e - SERDIL Outside Range
b - MS/MSD Outside Range

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DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary Report

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21741
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001047			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001047			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V001047			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001047			75-35-4	1,1-Dichloroethene	ug/L	94.0	<0.170	<0.189	n/a	n/a	n/a	n/a	0.189	n/a	U
S09V001047			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001047			71-36-3	1-Butanol	ug/L	98.9	<7.77	<8.63	n/a	n/a	n/a	n/a	8.63	n/a	U
S09V001047			108-10-1	Hexone	ug/L	104	<0.880	<0.978	n/a	n/a	n/a	n/a	0.978	n/a	U
S09V001047			67-64-1	Acetone	ug/L	112	<2.19	<2.43	n/a	n/a	n/a	n/a	2.43	n/a	Ub
S09V001047			71-43-2	Benzene	ug/L	91.9	<0.160	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S09V001047			75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001047			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001047			67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V001047			108-90-7	Chlorobenzene	ug/L	94.6	<0.110	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S09V001047			100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V001047			1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V001047			78-93-3	2-Butanone	ug/L	96.6	<1.33	<1.48	n/a	n/a	n/a	n/a	1.48	n/a	U
S09V001047			75-09-2	Methylenechloride	ug/L	n/a	1.66	3.28	n/a	n/a	n/a	n/a	0.189	n/a	B
S09V001047			127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V001047			108-88-3	Toluene	ug/L	92.6	0.334	0.181	n/a	n/a	n/a	n/a	0.133	n/a	BJ
S09V001047			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V001047			79-01-6	Trichloroethene	ug/L	90.4	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V001047			75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V001047			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V001047			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V001047			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V001047			79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V001047			141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V001047			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21741
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001047			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V001047			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V001047			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

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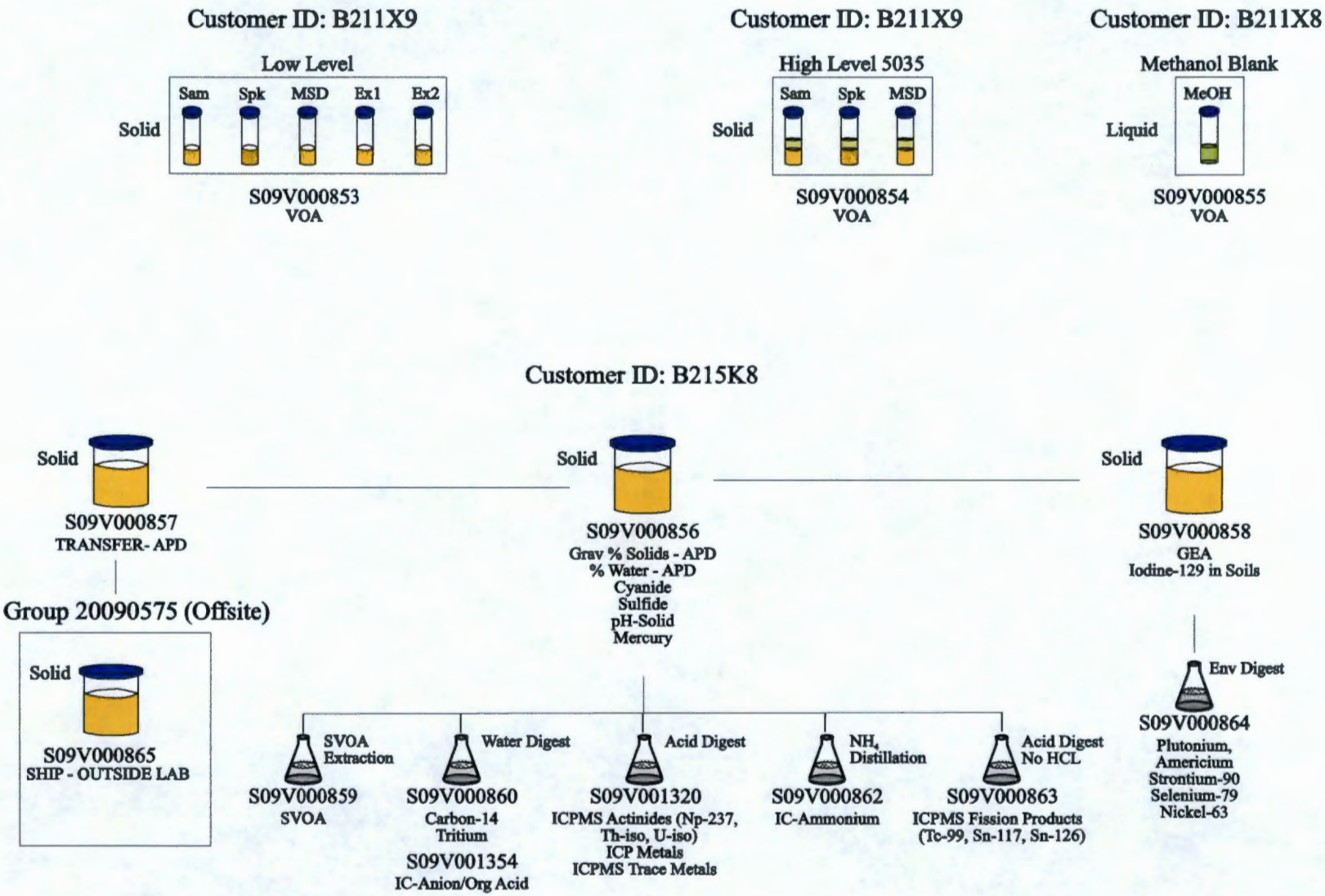
b - MS/MSD Outside Range
E - Outside Calibration Range

Attachment 2

SAMPLE BREAKDOWN DIAGRAM

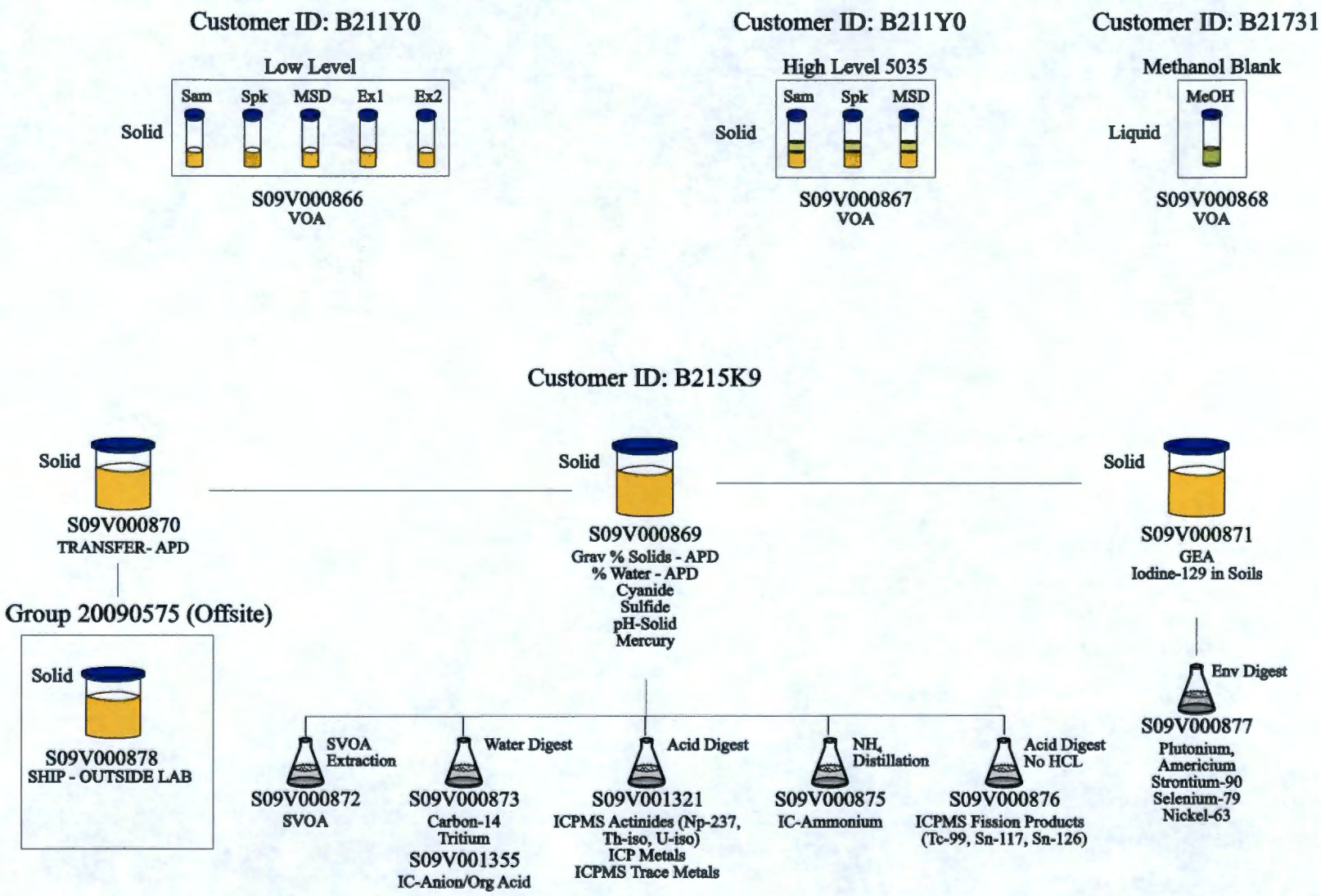
Vadose Zone: C Farm
Core No.: C7466
Group No.: 20090574

Sample Depth: Surface



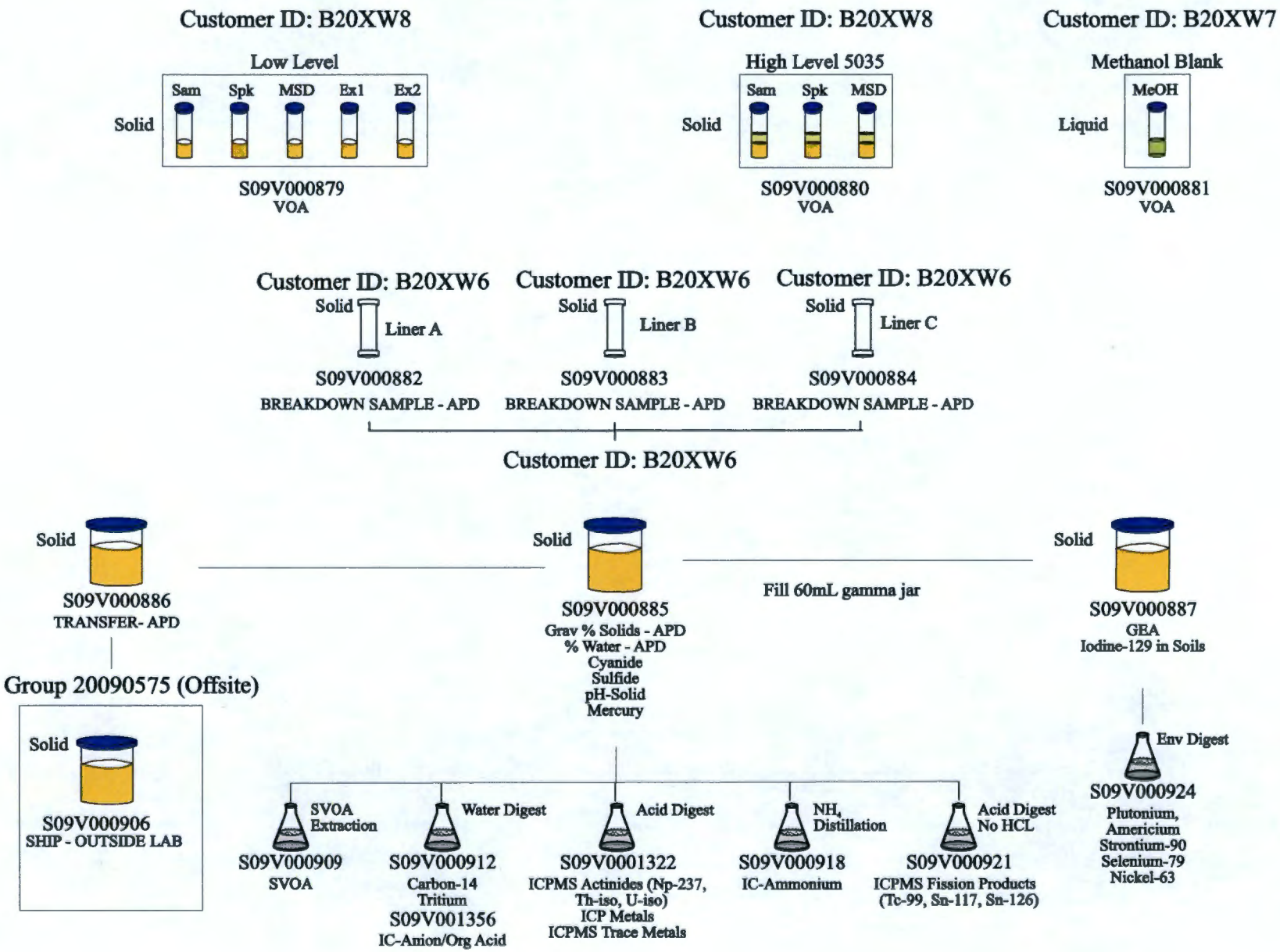
Vadose Zone: C Farm
Core No.: C7466
Group No.: 20090574

Sample Depth: Surface Dup



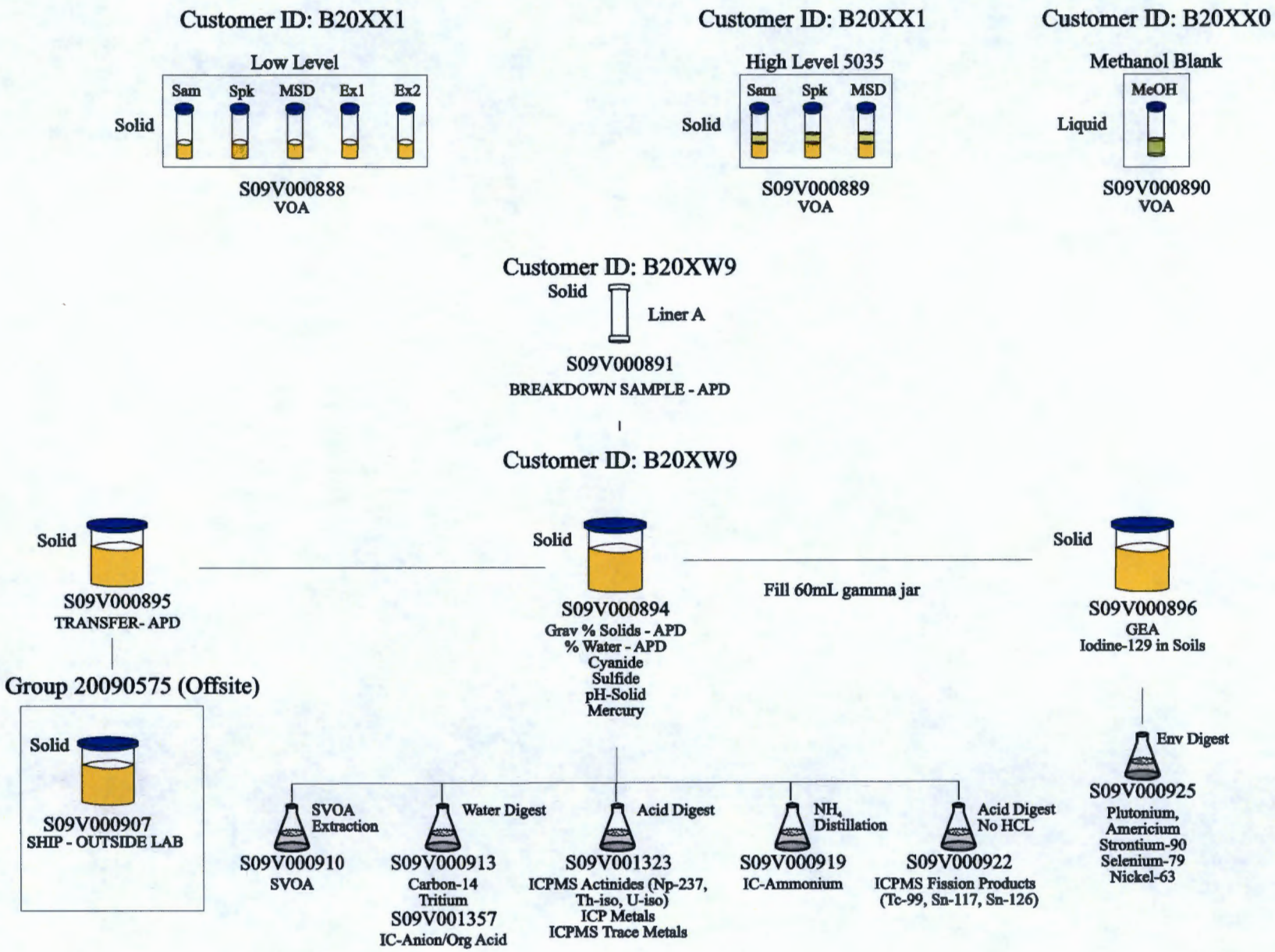
Vadose Zone: C Farm
Core No.: C7466
Group No.: 20090574

Sample Depth: 5-7 ft



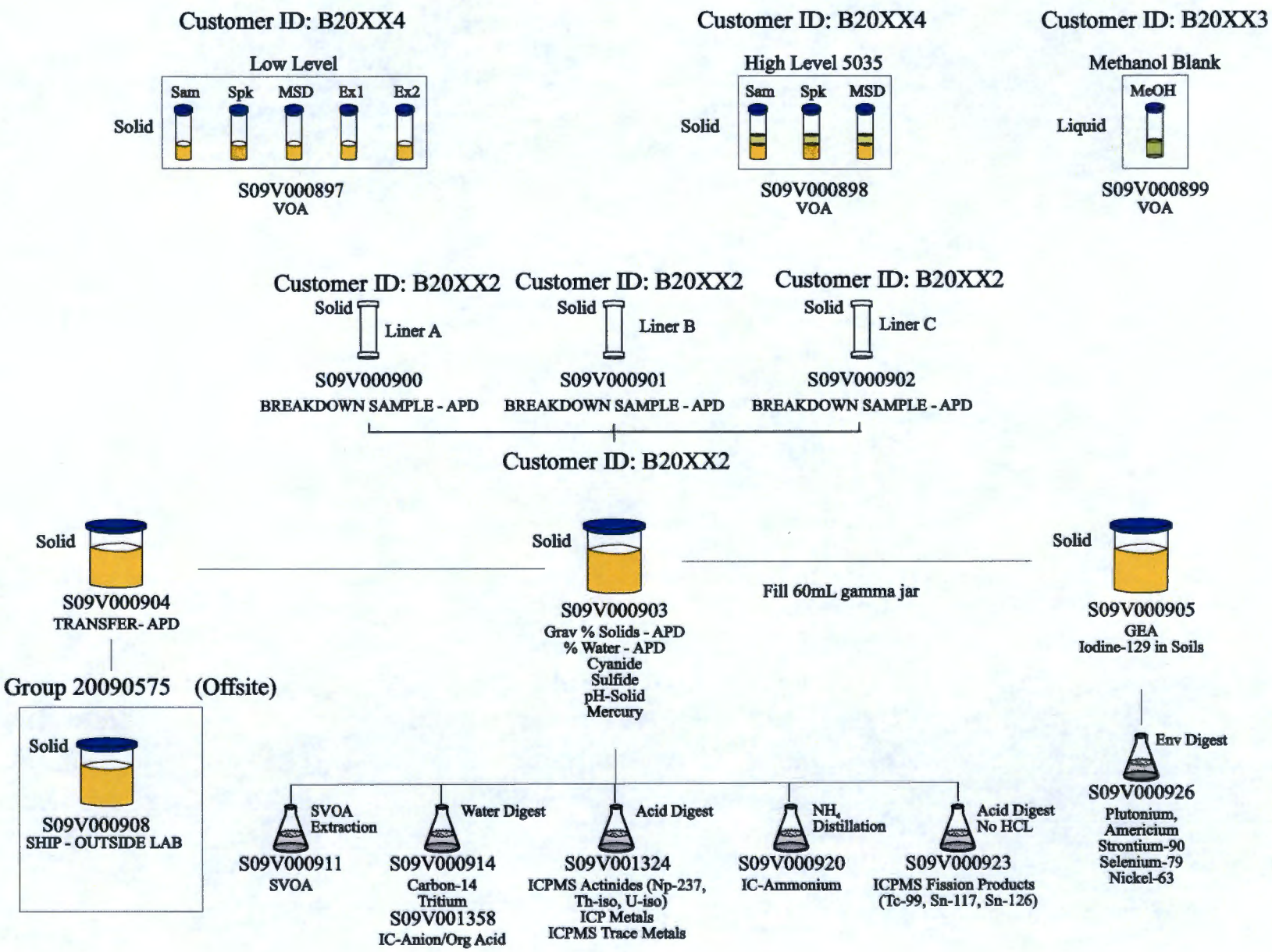
Vadose Zone: C Farm
Core No.: C7466
Group No.: 20090574

Sample Depth: 10-12 ft



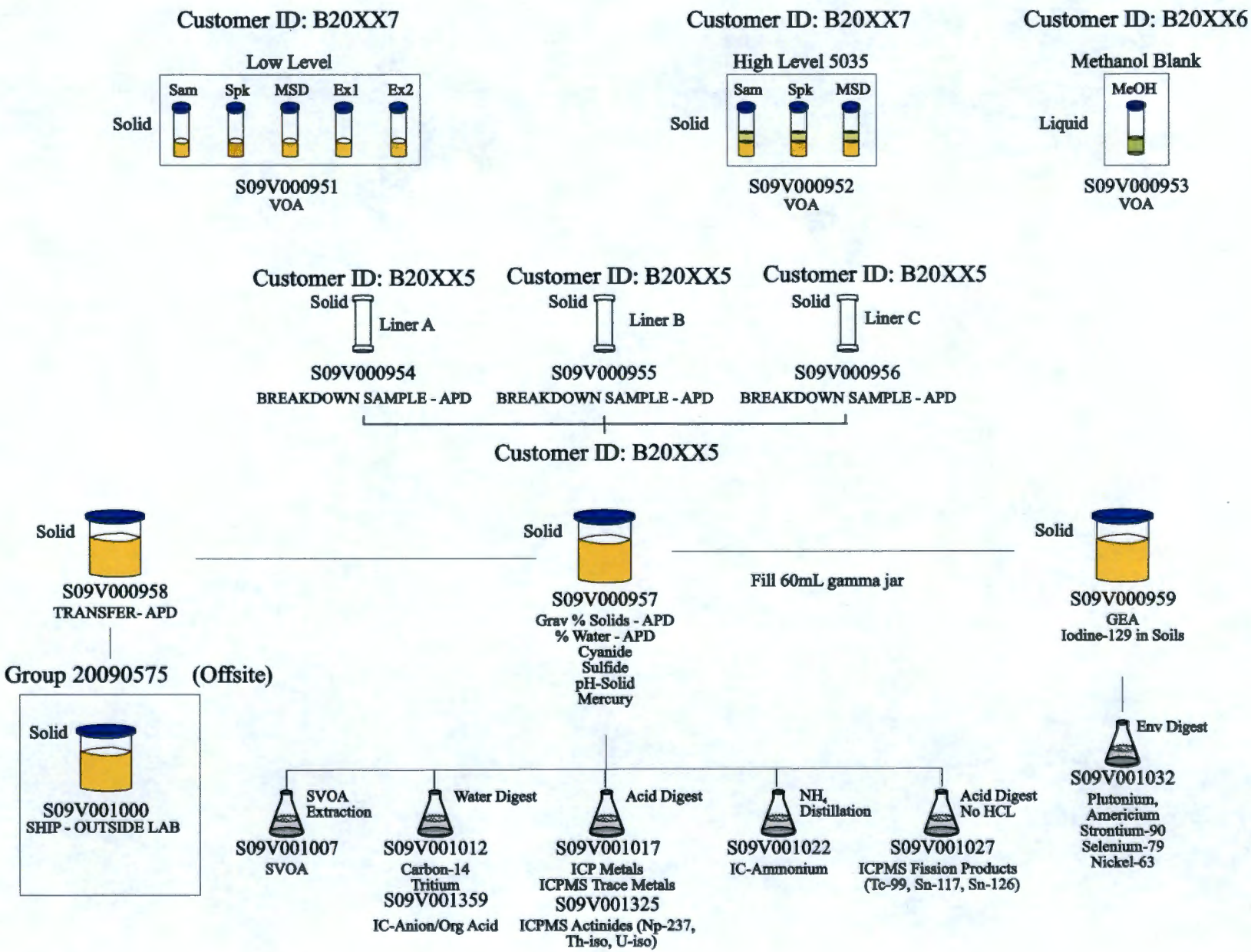
Vadose Zone: C Farm
Core No.: C7466
Group No.: 20090574

Sample Depth: 14-16 ft



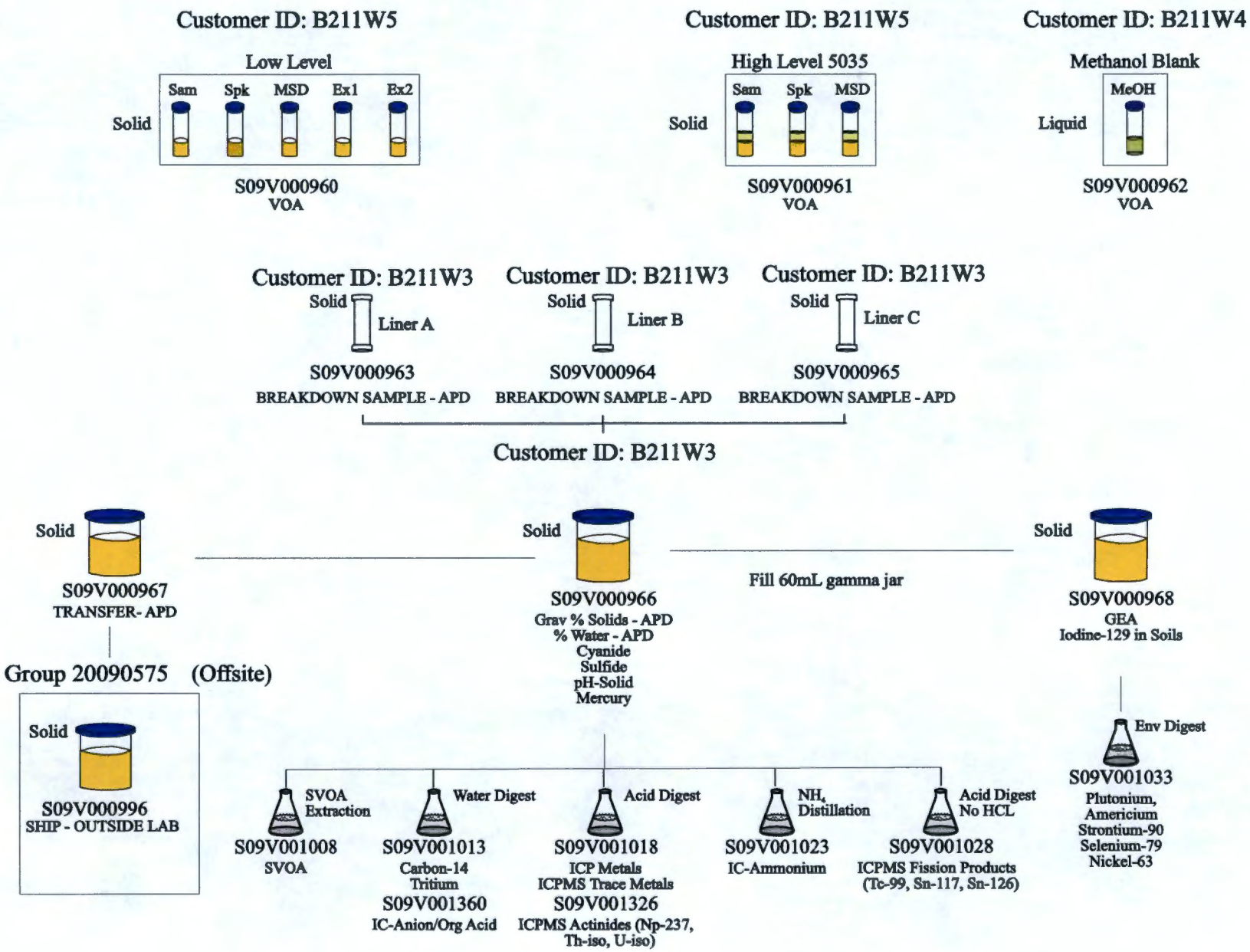
Vadose Zone: C Farm
Core No.: C7466
Group No.: 20090574

Sample Depth: 43.5-45.5 ft



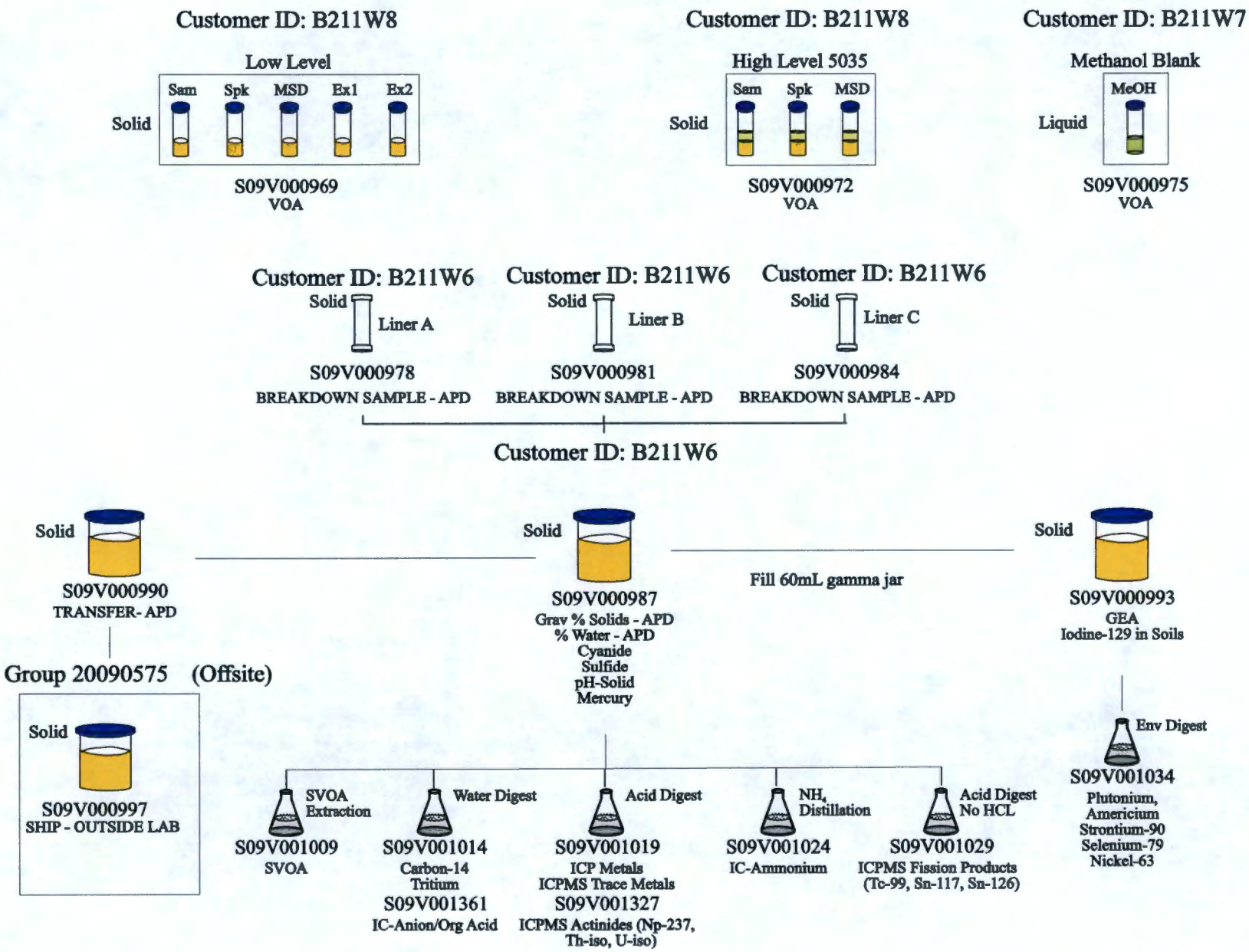
Vadose Zone: C Farm
Core No.: C7466
Group No.: 20090574

Sample Depth: 84-86 ft



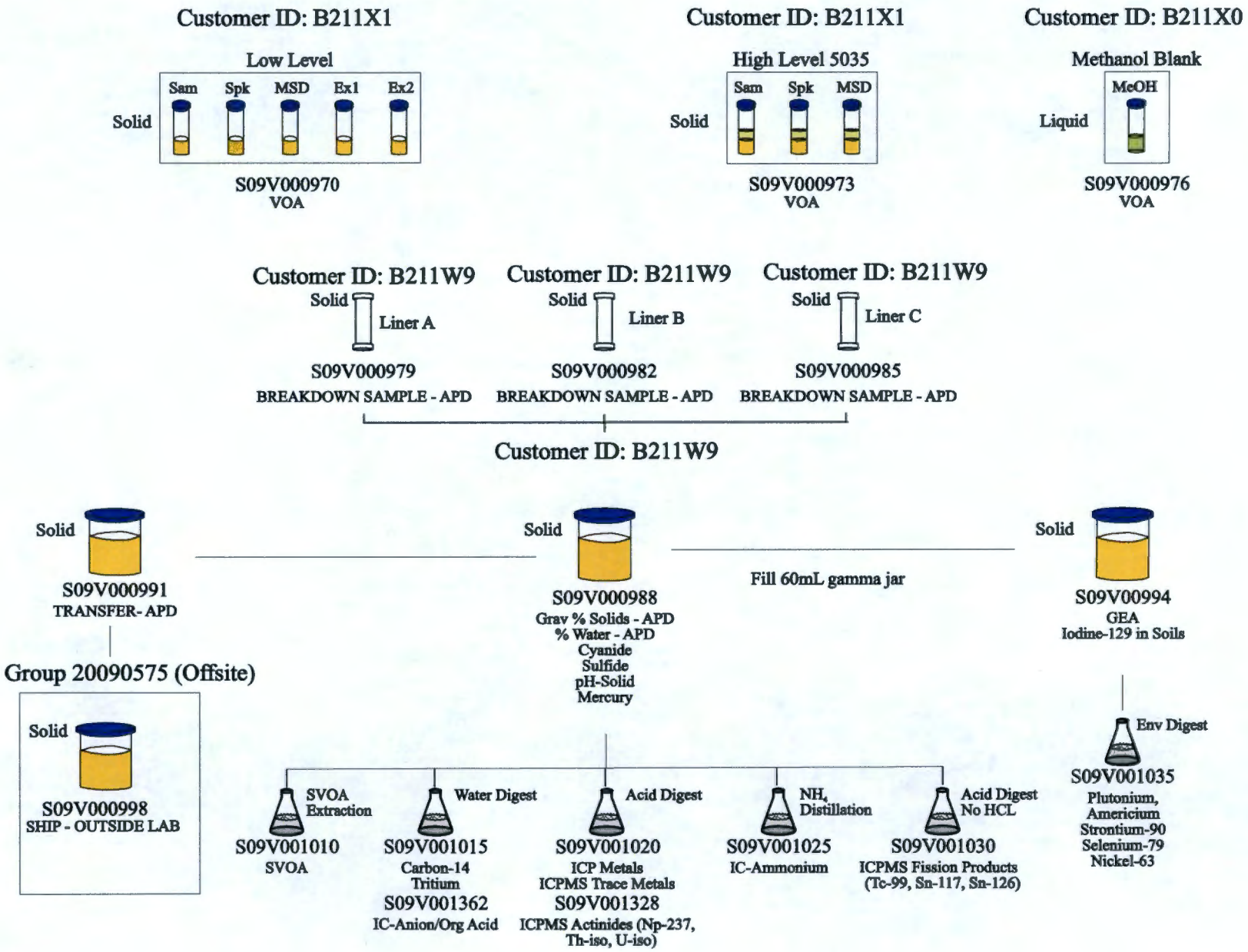
Vadose Zone: C Farm
Core No.: C7466
Group No.: 20090574

Sample Depth: 109.5-111.5 ft



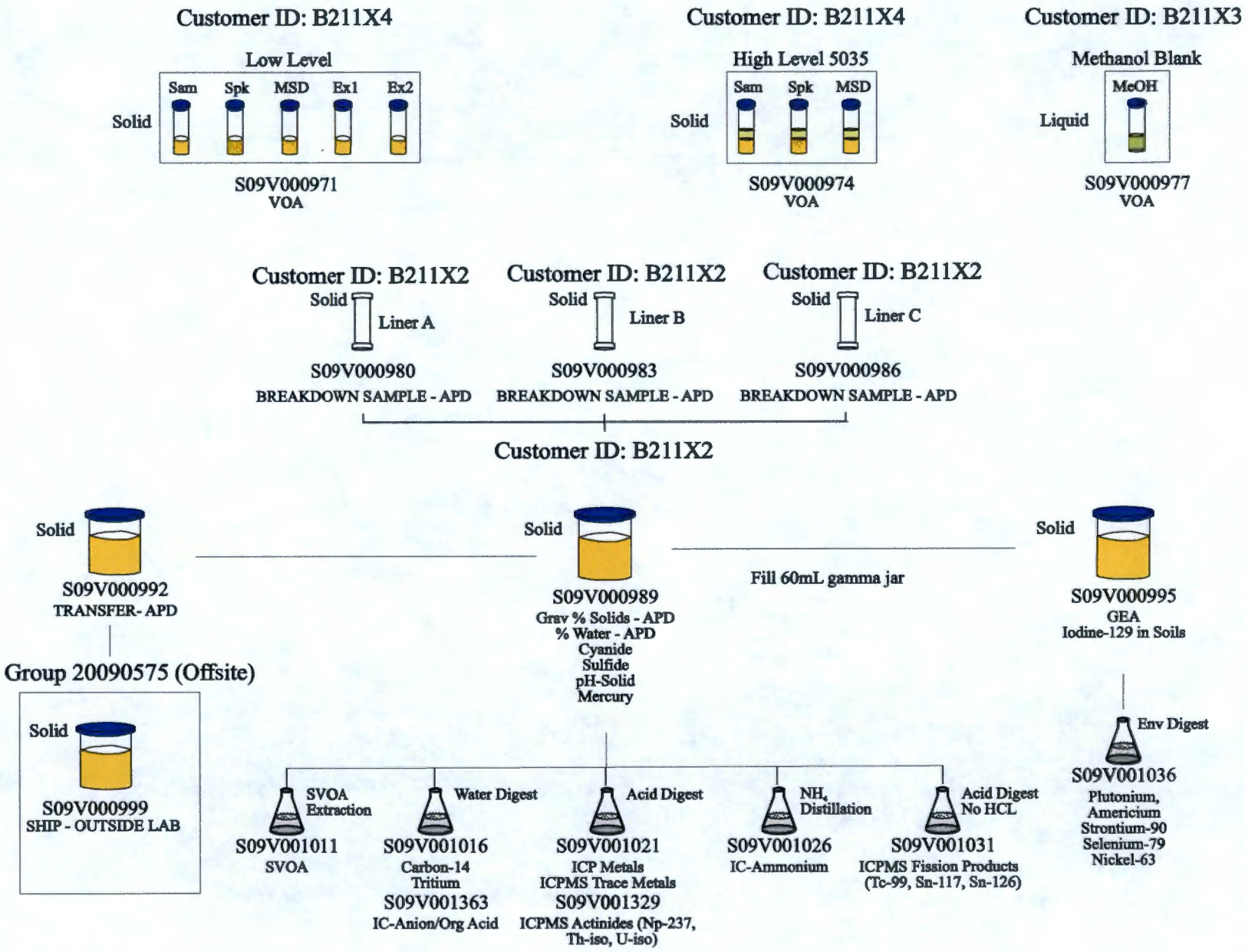
Vadose Zone: C Farm
Core No.: C7466
Group No.: 20090574

Sample Depth: 114-116 ft



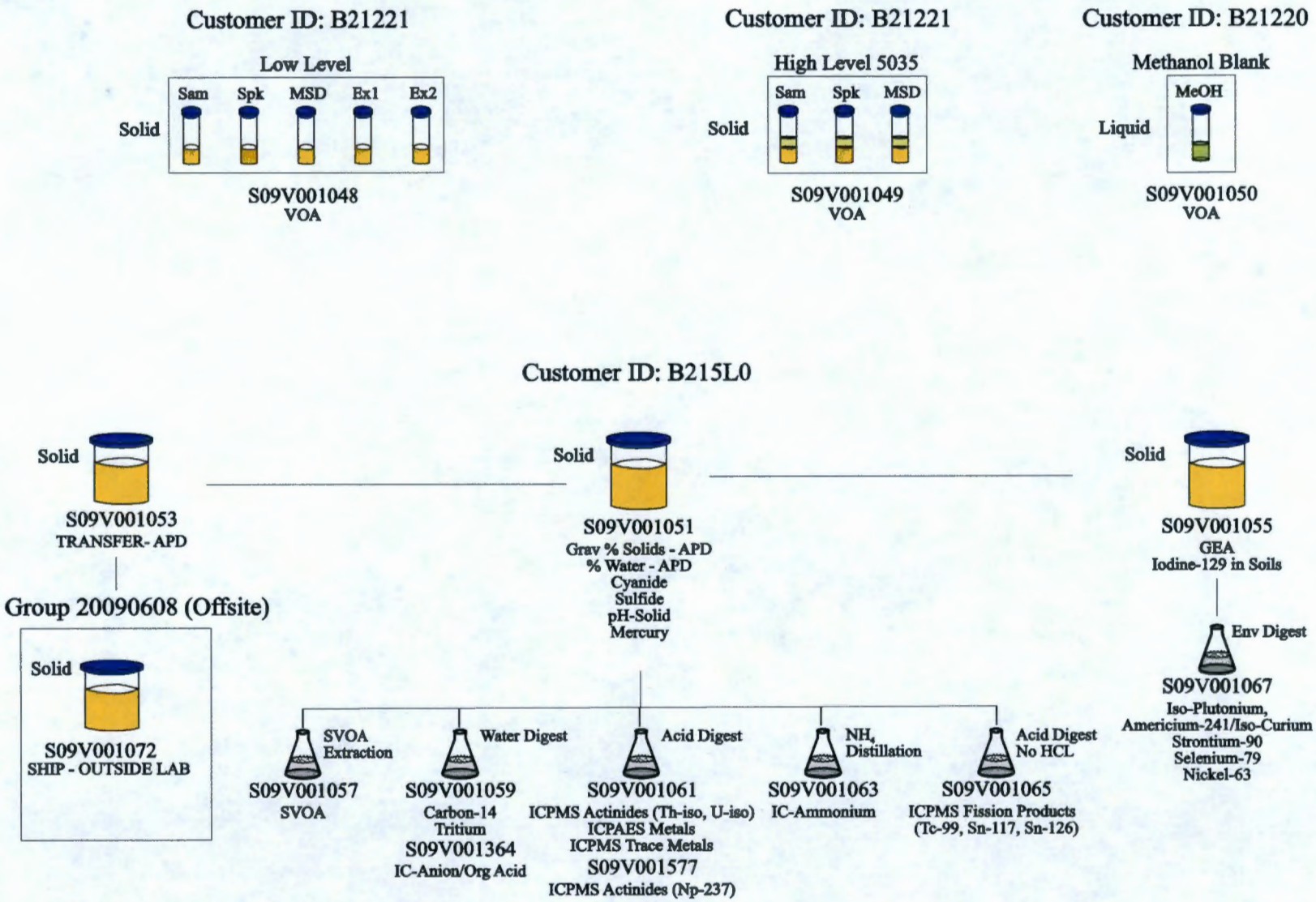
Vadose Zone: C Farm
Core No.: C7466
Group No.: 20090574

Sample Depth: 133-135 ft



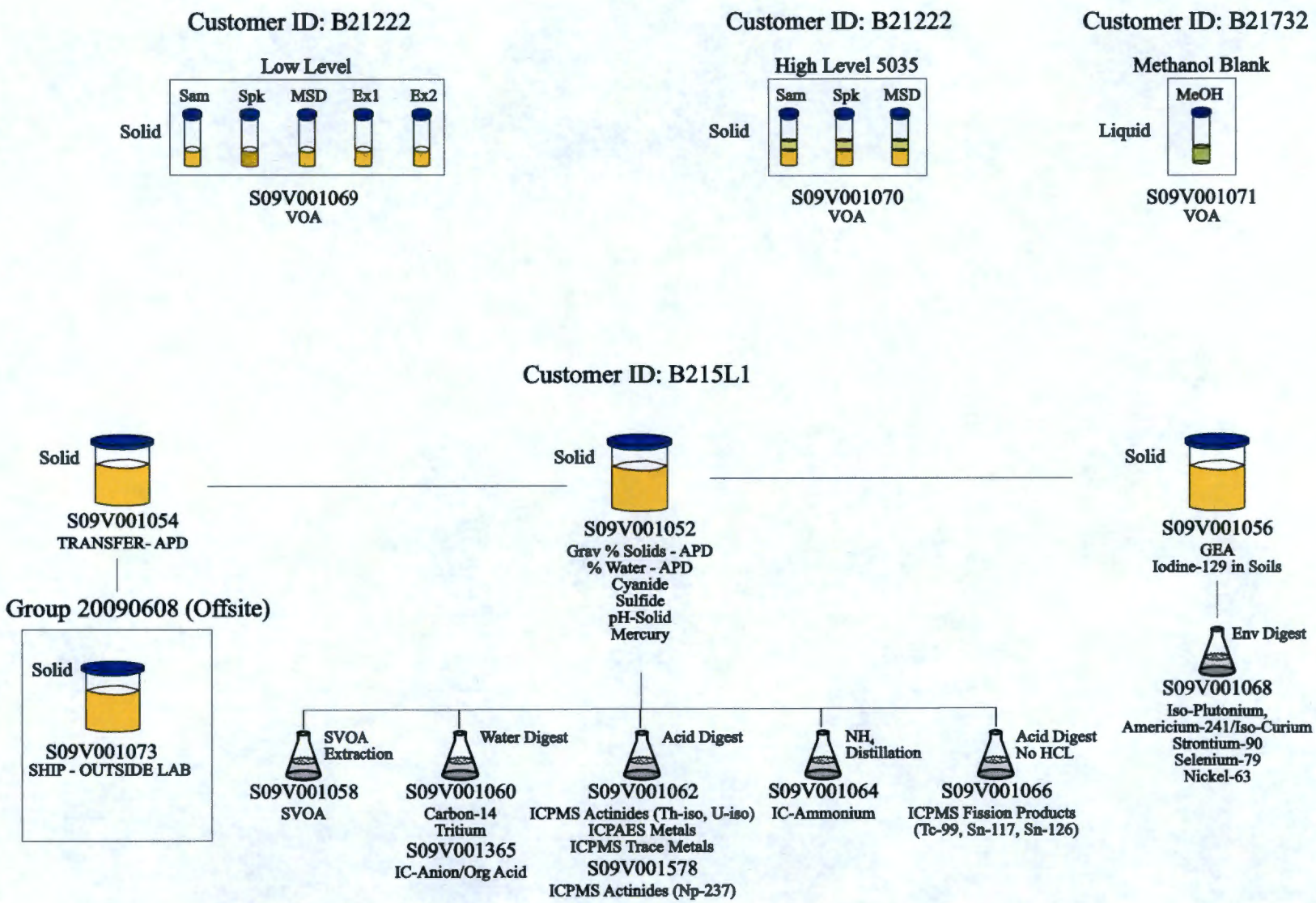
Vadose Zone: C Farm
Core No.: C7468
Group No.: 20090607

Sample Depth: Surface



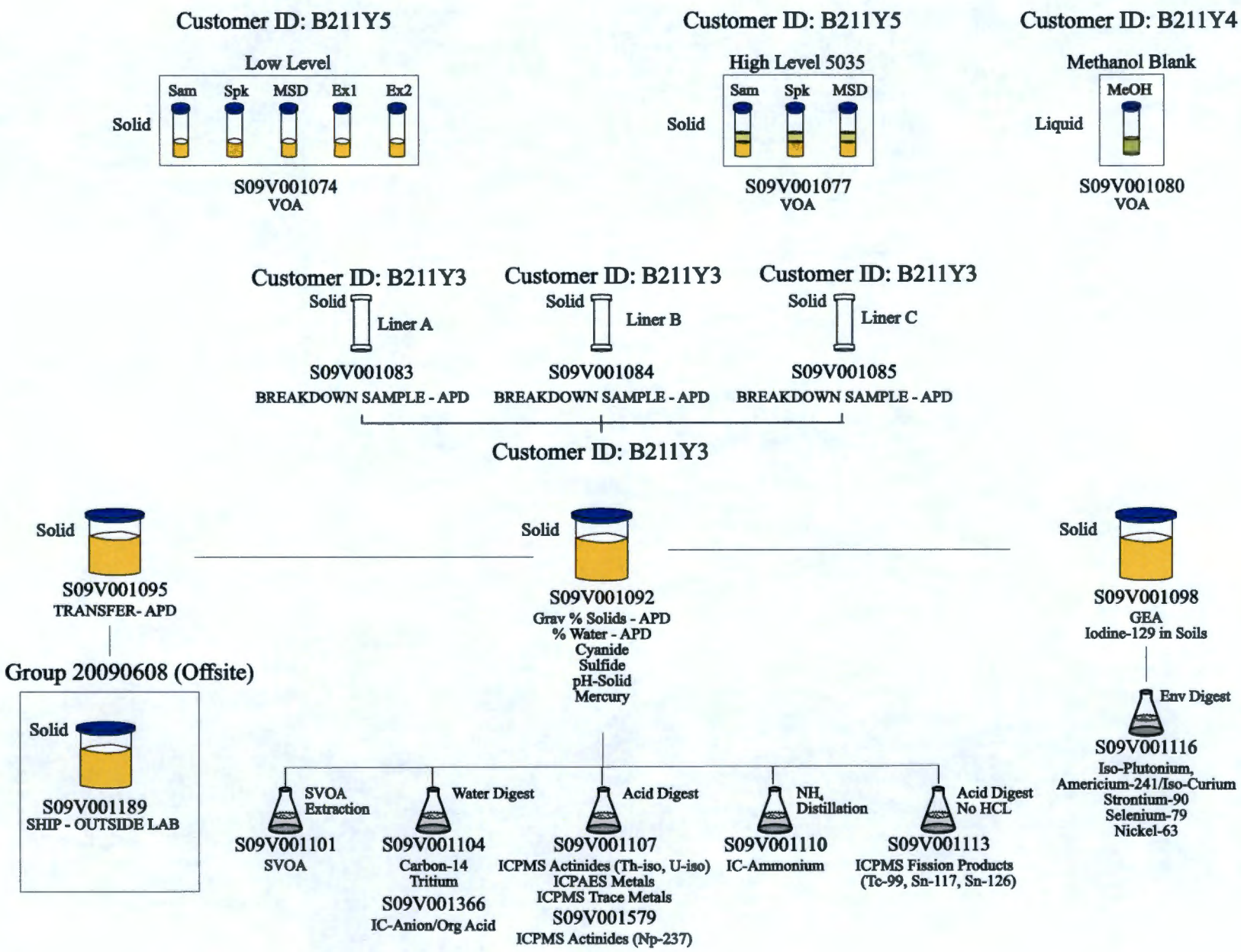
Vadose Zone: C Farm
Core No.: C7468
Group No.: 20090607

Sample Depth: Surface Dup



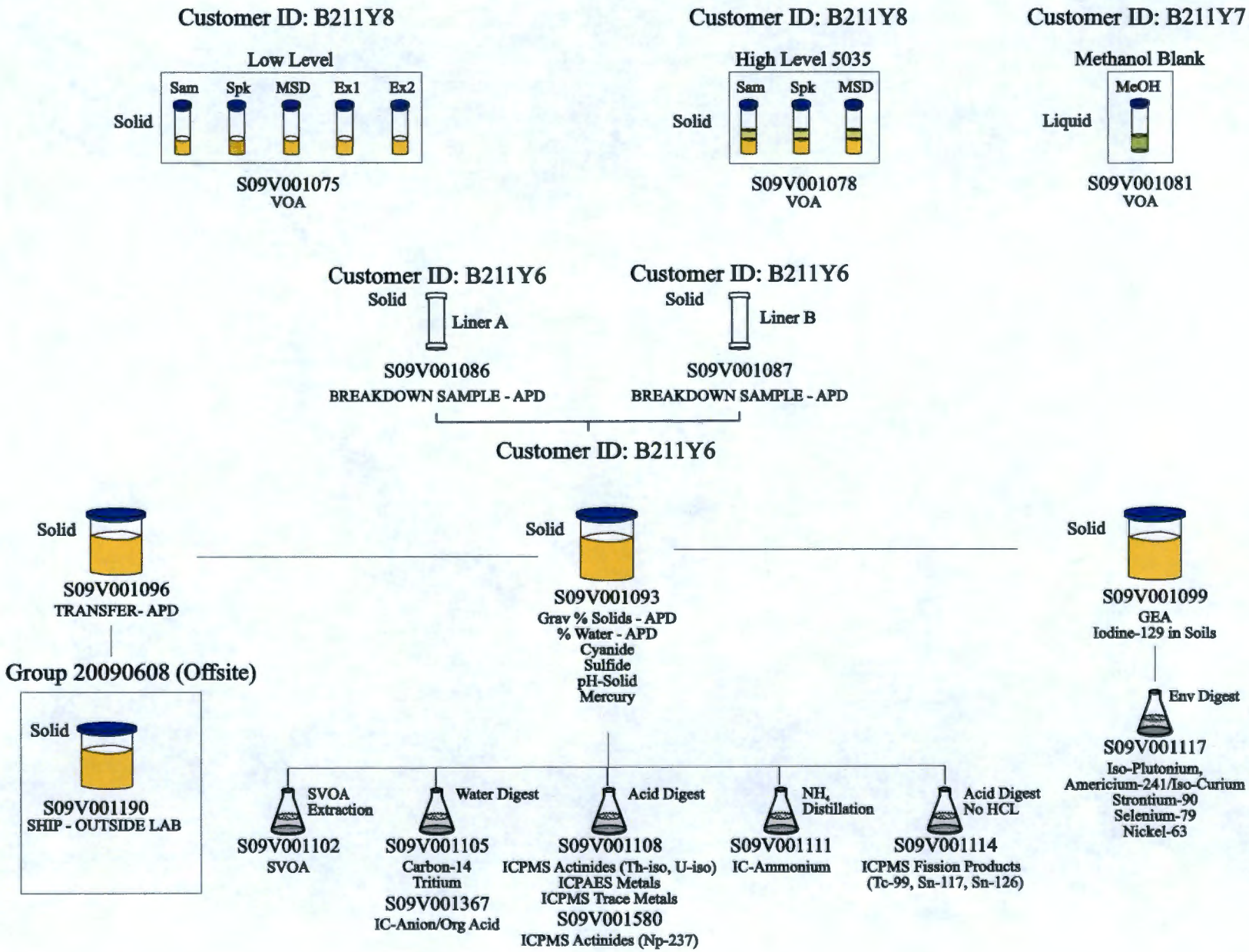
Vadose Zone: C Farm
Core No.: C7468
Group No.: 20090607

Sample Depth: 5-7 ft



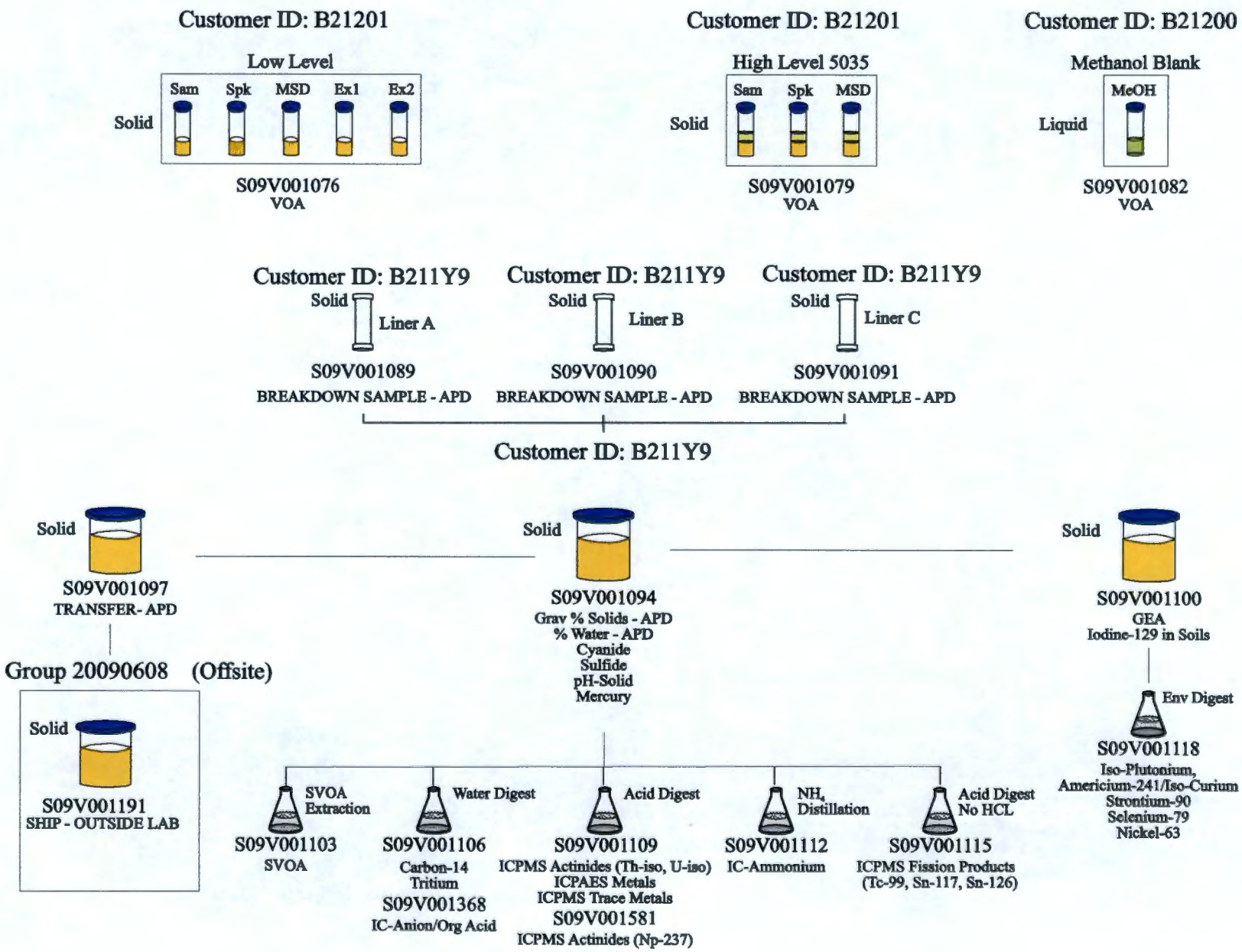
Vadose Zone: C Farm
Core No.: C7468
Group No.: 20090607

Sample Depth: 10-12 ft



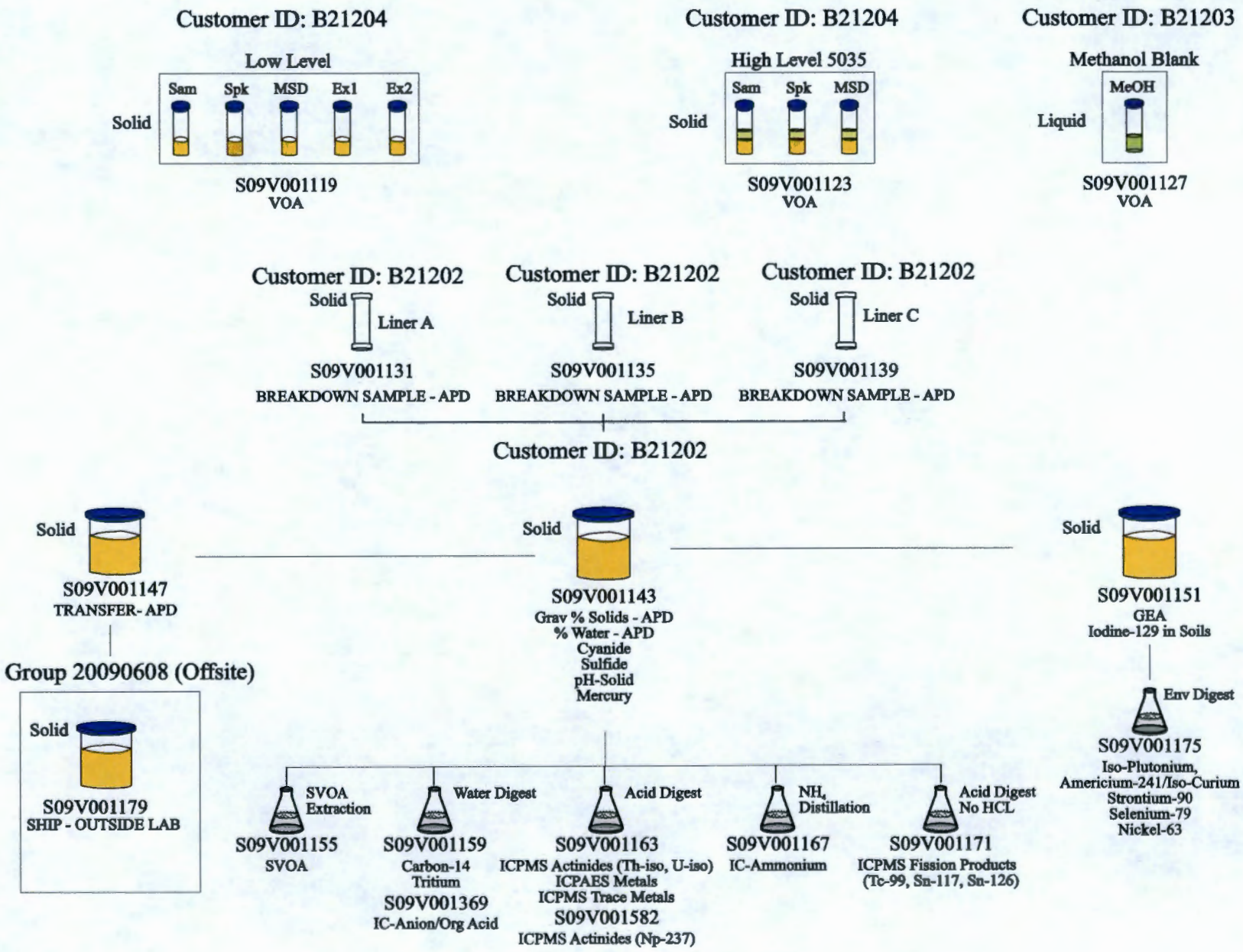
Vadose Zone: C Farm
Core No.: C7468
Group No.: 20090607

Sample Depth: 14-16 ft



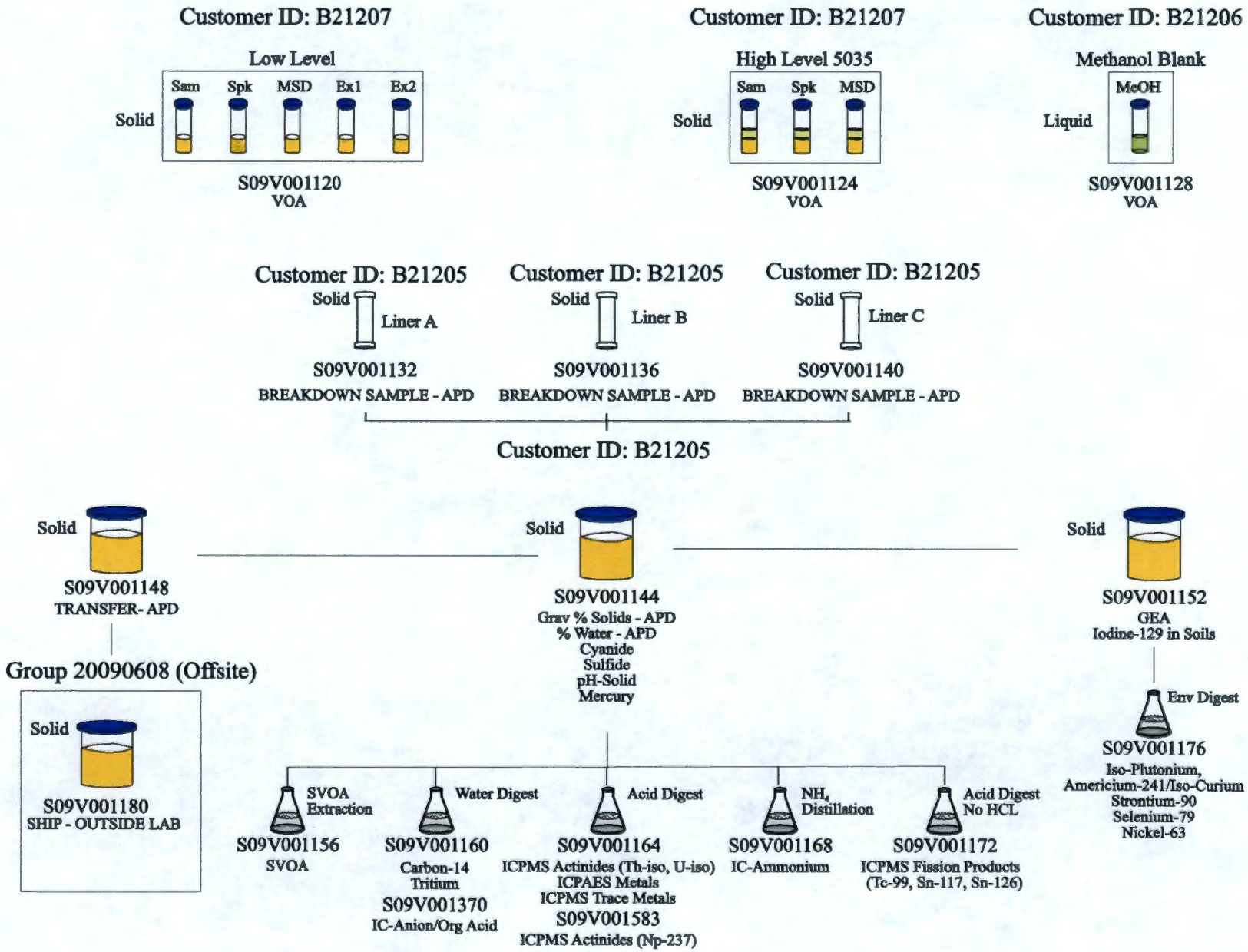
Vadose Zone: C Farm
Core No.: C7468
Group 20090607 (ATL)
Group 20090608 (Offsite)

Sample Depth: 43.5-45.5 ft



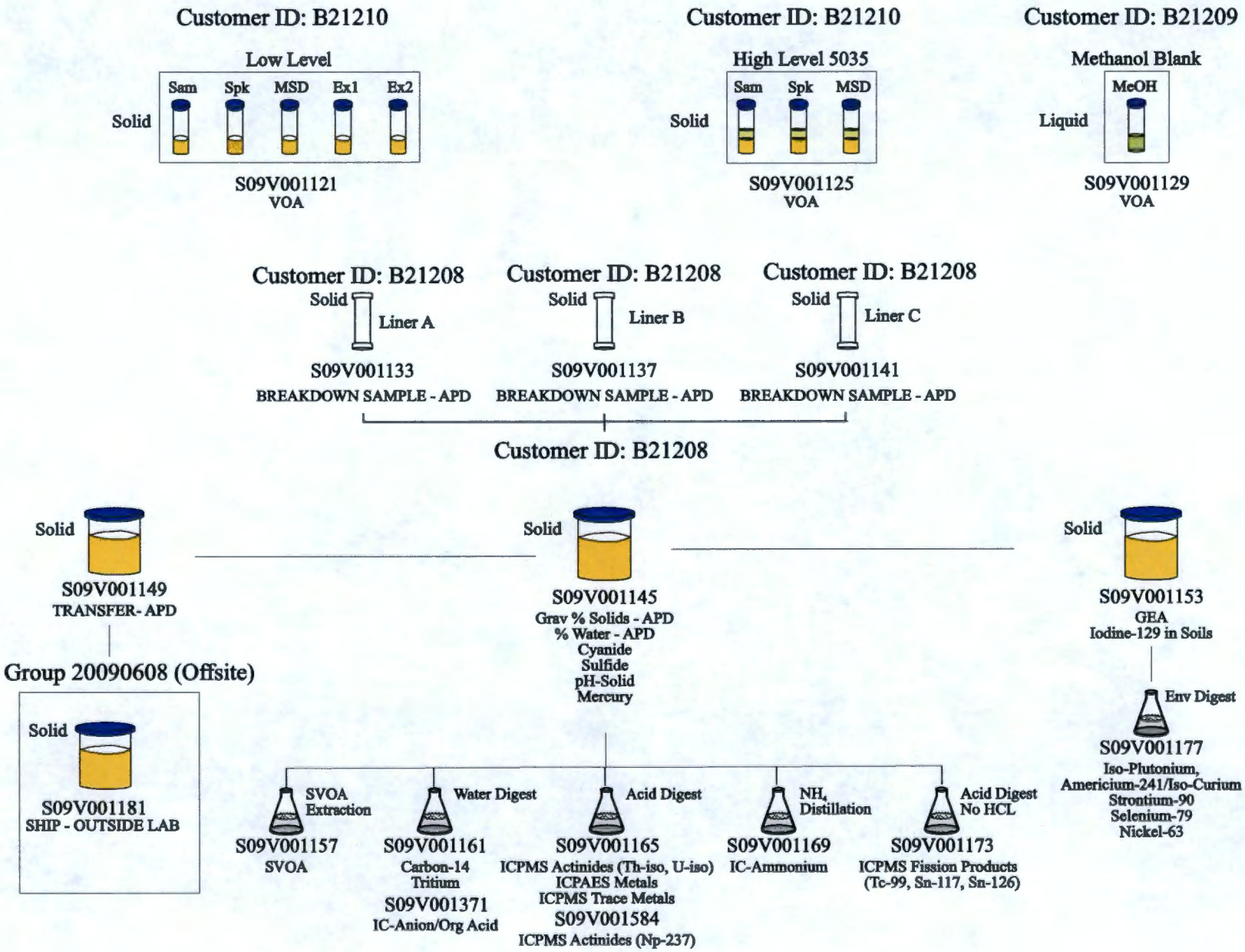
Vadose Zone: C Farm
Core No.: C7468
Group No.: 20090607

Sample Depth: 92-94 ft



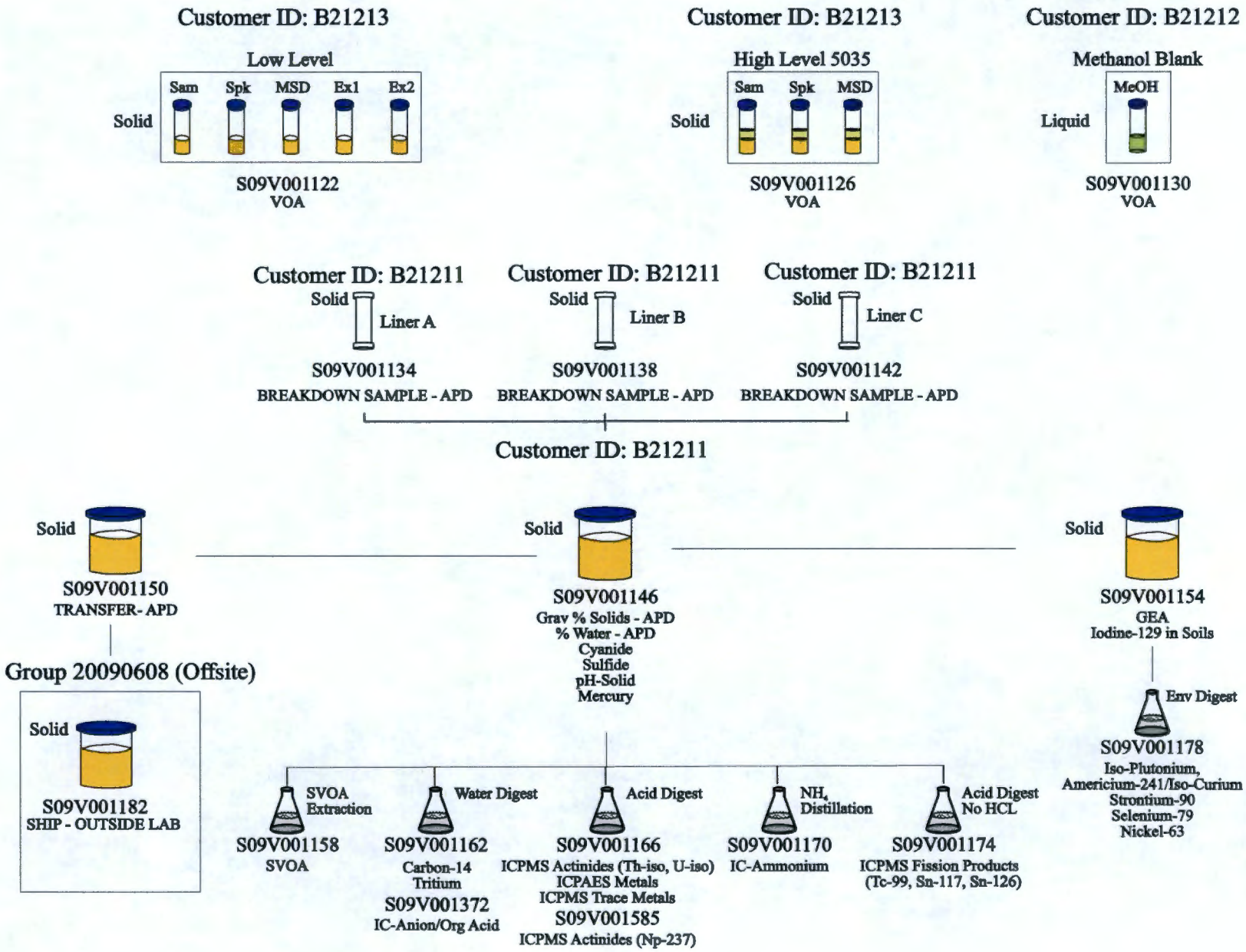
Vadose Zone: C Farm
Core No.: C7468
Group No.: 20090607

Sample Depth: 97-99 ft



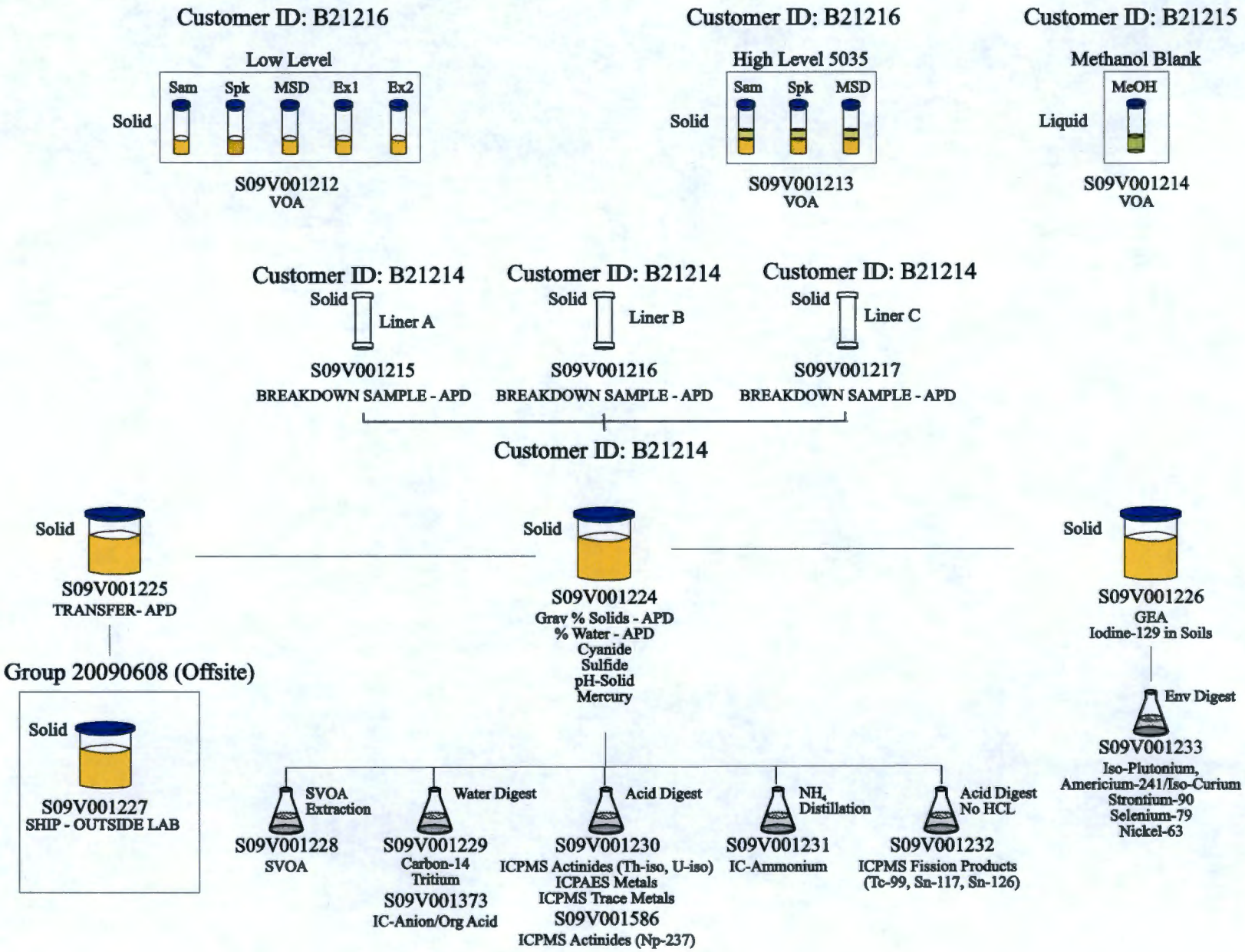
Vadose Zone: C Farm
Core No.: C7468
Group No.: 20090607

Sample Depth: 125-127 ft



Vadose Zone: C Farm
Core No.: C7468
Group No.: 20090607

Sample Depth: 135-137 ft



Attachment 3

HOLDING TIME REPORT

Holding Time Report **Cyanide SW846-9014/9010C**

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20090574	S09V000856	SOLID	SW846 9014	SW846-9010C	07/30/09 08:25	07/30/09 13:15	08/11/09 14:07	N
20090574	S09V000869	SOLID	SW846 9014	SW846-9010C	07/30/09 08:30	07/30/09 13:15	08/11/09 14:07	N
20090574	S09V000885	SOLID	SW846 9014	SW846-9010C	07/30/09 10:00	07/30/09 13:15	08/11/09 14:07	N
20090574	S09V000894	SOLID	SW846 9014	SW846-9010C	07/30/09 10:38	07/30/09 13:15	08/11/09 14:07	N
20090574	S09V000903	SOLID	SW846 9014	SW846-9010C	07/30/09 12:05	07/30/09 13:15	08/11/09 14:07	N
20090574	S09V000957	SOLID	SW846 9014	SW846-9010C	08/03/09 08:50	08/03/09 14:00	08/13/09 14:40	N
20090573	S09V000934	LIQUID	SW846 9014	SW846-9010C	08/03/09 10:37	08/03/09 14:00	08/14/09 00:00	N
20090574	S09V000966	SOLID	SW846 9014	SW846-9010C	08/04/09 08:45	08/04/09 15:00	08/13/09 14:40	N
20090574	S09V000987	SOLID	SW846 9014	SW846-9010C	08/04/09 14:10	08/04/09 15:00	08/13/09 14:40	N
20090574	S09V000988	SOLID	SW846 9014	SW846-9010C	08/05/09 09:45	08/05/09 15:00	08/13/09 14:40	N
20090574	S09V000989	SOLID	SW846 9014	SW846-9010C	08/05/09 13:52	08/05/09 15:00	08/13/09 14:40	N
20090607	S09V001051	SOLID	SW846 9014	SW846-9010C	08/10/09 10:45	08/10/09 13:30	08/18/09 12:00	N
20090607	S09V001052	SOLID	SW846 9014	SW846-9010C	08/10/09 10:45	08/10/09 13:30	08/18/09 12:00	N
20090607	S09V001092	SOLID	SW846 9014	SW846-9010C	08/11/09 08:40	08/11/09 12:40	08/18/09 12:00	N
20090607	S09V001093	SOLID	SW846 9014	SW846-9010C	08/11/09 09:10	08/11/09 12:40	08/18/09 12:00	N
20090607	S09V001094	SOLID	SW846 9014	SW846-9010C	08/11/09 09:45	08/11/09 12:40	08/18/09 12:00	N
20090607	S09V001143	SOLID	SW846 9014	SW846-9010C	08/12/09 08:40	08/12/09 11:00	08/24/09 14:25	N
20090607	S09V001144	SOLID	SW846 9014	SW846-9010C	08/13/09 08:45	08/13/09 14:00	08/24/09 14:25	N
20090607	S09V001145	SOLID	SW846 9014	SW846-9010C	08/13/09 11:20	08/13/09 14:00	08/24/09 14:25	N
20090607	S09V001146	SOLID	SW846 9014	SW846-9010C	08/17/09 10:00	08/17/09 14:30	08/24/09 14:25	N
20090607	S09V001224	SOLID	SW846 9014	SW846-9010C	08/17/09 13:55	08/17/09 14:30	08/24/09 14:25	N

Hold Time Report **Sulfide**

Sample Group	Sample	Matrix	Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20090573	S09V000933	LIQUID	SW846-9215	08/03/09 10:37	08/03/09 14:00	08/11/09 14:31	Y
20090574	S09V000856	SOLID	SW846-9215	07/30/09 08:25	07/30/09 13:15	08/04/09 09:15	N
20090574	S09V000869	SOLID	SW846-9215	07/30/09 08:30	07/30/09 13:15	08/04/09 09:15	N
20090574	S09V000885	SOLID	SW846-9215	07/30/09 10:00	07/30/09 13:15	08/04/09 09:15	N
20090574	S09V000894	SOLID	SW846-9215	07/30/09 10:38	07/30/09 13:15	08/04/09 09:15	N
20090574	S09V000903	SOLID	SW846-9215	07/30/09 12:05	07/30/09 13:15	08/04/09 09:15	N
20090574	S09V000957	SOLID	SW846-9215	08/03/09 08:50	08/03/09 14:00	08/06/09 14:19	N
20090574	S09V000966	SOLID	SW846-9215	08/04/09 08:45	08/04/09 15:00	08/06/09 14:19	N
20090574	S09V000987	SOLID	SW846-9215	08/04/09 14:10	08/04/09 15:00	08/06/09 14:19	N
20090574	S09V000988	SOLID	SW846-9215	08/05/09 09:45	08/05/09 15:00	08/11/09 14:02	N
20090574	S09V000989	SOLID	SW846-9215	08/05/09 13:52	08/05/09 15:00	08/11/09 14:02	N
20090607	S09V001051	SOLID	SW846-9215	08/10/09 10:45	08/10/09 13:30	08/11/09 14:02	N
20090607	S09V001052	SOLID	SW846-9215	08/10/09 10:45	08/10/09 13:30	08/11/09 14:02	N
20090607	S09V001092	SOLID	SW846-9215	08/11/09 08:40	08/11/09 12:40	08/13/09 20:20	N
20090607	S09V001093	SOLID	SW846-9215	08/11/09 09:10	08/11/09 12:40	08/13/09 20:20	N
20090607	S09V001094	SOLID	SW846-9215	08/11/09 09:45	08/11/09 12:40	08/13/09 20:20	N
20090607	S09V001143	SOLID	SW846-9215	08/12/09 08:40	08/12/09 11:00	08/19/09 15:17	N
20090607	S09V001144	SOLID	SW846-9215	08/13/09 08:45	08/13/09 14:00	08/19/09 15:17	N
20090607	S09V001145	SOLID	SW846-9215	08/13/09 11:20	08/13/09 14:00	08/19/09 15:17	N
20090607	S09V001146	SOLID	SW846-9215	08/17/09 10:00	08/17/09 14:30	08/19/09 15:17	N
20090607	S09V001224	SOLID	SW846-9215	08/17/09 13:55	08/17/09 14:30	08/19/09 15:17	N

Analysis Time Report **pH Analysis**

Sample Group	Sample	Matrix	Method	Sample Date	Received Date	Analysis Date	Lapse Time (Days)
20090574	S09V000856	SOLID	PH SOLID	07/30/09 08:25	07/30/09 13:15	08/10/09 16:00	11
20090574	S09V000869	SOLID	PH SOLID	07/30/09 08:30	07/30/09 13:15	08/10/09 16:00	11
20090574	S09V000885	SOLID	PH SOLID	07/30/09 10:00	07/30/09 13:15	08/10/09 16:00	11
20090574	S09V000894	SOLID	PH SOLID	07/30/09 10:38	07/30/09 13:15	08/10/09 16:00	11
20090574	S09V000903	SOLID	PH SOLID	07/30/09 12:05	07/30/09 13:15	08/10/09 16:00	11
20090574	S09V000957	SOLID	PH SOLID	08/03/09 08:50	08/03/09 14:00	08/19/09 13:30	16
20090573	S09V000932	LIQUID	PH LIQUID	08/03/09 10:37	08/03/09 14:00	09/03/09 11:00	31
20090574	S09V000966	SOLID	PH SOLID	08/04/09 08:45	08/04/09 15:00	08/19/09 13:30	15
20090574	S09V000987	SOLID	PH SOLID	08/04/09 14:10	08/04/09 15:00	08/18/09 20:10	14
20090574	S09V000988	SOLID	PH SOLID	08/05/09 09:45	08/05/09 15:00	08/18/09 20:10	13
20090574	S09V000989	SOLID	PH SOLID	08/05/09 13:52	08/05/09 15:00	08/18/09 20:10	13
20090607	S09V001051	SOLID	PH SOLID	08/10/09 10:45	08/10/09 13:30	08/18/09 20:10	8
20090607	S09V001052	SOLID	PH SOLID	08/10/09 10:45	08/10/09 13:30	08/18/09 20:10	8
20090607	S09V001092	SOLID	PH SOLID	08/11/09 08:40	08/11/09 12:40	08/18/09 20:10	7
20090607	S09V001093	SOLID	PH SOLID	08/11/09 09:10	08/11/09 12:40	08/18/09 20:10	7
20090607	S09V001094	SOLID	PH SOLID	08/11/09 09:45	08/11/09 12:40	08/18/09 20:10	7
20090607	S09V001143	SOLID	PH SOLID	08/12/09 08:40	08/12/09 11:00	08/19/09 13:30	7
20090607	S09V001144	SOLID	PH SOLID	08/13/09 08:45	08/13/09 14:00	08/19/09 13:30	6
20090607	S09V001145	SOLID	PH SOLID	08/13/09 11:20	08/13/09 14:00	08/19/09 13:30	6
20090607	S09V001146	SOLID	PH SOLID	08/17/09 10:00	08/17/09 14:30	08/18/09 20:10	1
20090607	S09V001224	SOLID	PH SOLID	08/17/09 13:55	08/17/09 14:30	08/19/09 13:30	2

Holding Time Report **CVAA Mercury SW846-7471A, 7470A**

Sample Group	Sample	Matrix	Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20090573	S09V000929	LIQUID	SW846-7470A	08/03/09 10:37	08/03/09 14:00	08/27/09 14:19	N
20090574	S09V000856	SOLID	SW846-7471A	07/30/09 08:25	07/30/09 13:15	08/18/09 20:45	N
20090574	S09V000869	SOLID	SW846-7471A	07/30/09 08:30	07/30/09 13:15	08/18/09 20:45	N
20090574	S09V000885	SOLID	SW846-7471A	07/30/09 10:00	07/30/09 13:15	08/18/09 20:45	N
20090574	S09V000894	SOLID	SW846-7471A	07/30/09 10:38	07/30/09 13:15	08/18/09 20:45	N
20090574	S09V000903	SOLID	SW846-7471A	07/30/09 12:05	07/30/09 13:15	08/18/09 20:45	N
20090574	S09V000957	SOLID	SW846-7471A	08/03/09 08:50	08/03/09 14:00	08/18/09 20:45	N
20090574	S09V000966	SOLID	SW846-7471A	08/04/09 08:45	08/04/09 15:00	08/18/09 20:45	N
20090574	S09V000987	SOLID	SW846-7471A	08/04/09 14:10	08/04/09 15:00	08/26/09 21:15	N
20090574	S09V000988	SOLID	SW846-7471A	08/05/09 09:45	08/05/09 15:00	08/26/09 21:15	N
20090574	S09V000989	SOLID	SW846-7471A	08/05/09 13:52	08/05/09 15:00	08/26/09 21:15	N
20090607	S09V001051	SOLID	SW846-7471A	08/10/09 10:45	08/10/09 13:30	08/26/09 21:15	N
20090607	S09V001052	SOLID	SW846-7471A	08/10/09 10:45	08/10/09 13:30	08/26/09 21:15	N
20090607	S09V001092	SOLID	SW846-7471A	08/11/09 08:40	08/11/09 12:40	08/26/09 21:15	N
20090607	S09V001093	SOLID	SW846-7471A	08/11/09 09:10	08/11/09 12:40	08/26/09 21:15	N
20090607	S09V001094	SOLID	SW846-7471A	08/11/09 09:45	08/11/09 12:40	09/03/09 09:54	N
20090607	S09V001143	SOLID	SW846-7471A	08/12/09 08:40	08/12/09 11:00	09/03/09 09:54	N
20090607	S09V001144	SOLID	SW846-7471A	08/13/09 08:45	08/13/09 14:00	09/03/09 09:54	N
20090607	S09V001145	SOLID	SW846-7471A	08/13/09 11:20	08/13/09 14:00	09/03/09 09:54	N
20090607	S09V001146	SOLID	SW846-7471A	08/17/09 10:00	08/17/09 14:30	09/03/09 09:54	N
20090607	S09V001224	SOLID	SW846-7471A	08/17/09 13:55	08/17/09 14:30	09/03/09 09:54	N

Hold Time Report **IC- Anions**

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090573	S09V000932	LIQUID	SW846-9056A	N/A	08/03/09 10:37	08/03/09 14:00	N/A	08/05/09 01:29	N
20090574	S09V001359	SOLID	SW846-9056A	WATER DIGEST	08/03/09 08:50	08/03/09 14:00	11/15/09 08:40	11/16/09 19:30	N
20090574	S09V001360	SOLID	SW846-9056A	WATER DIGEST	08/04/09 08:45	08/04/09 15:00	11/15/09 08:40	11/16/09 21:06	N
20090574	S09V001361	SOLID	SW846-9056A	WATER DIGEST	08/04/09 14:10	08/04/09 15:00	11/15/09 08:40	11/16/09 21:38	N
20090574	S09V001362	SOLID	SW846-9056A	WATER DIGEST	08/05/09 09:45	08/05/09 15:00	11/15/09 08:40	11/16/09 22:10	N
20090574	S09V001363	SOLID	SW846-9056A	WATER DIGEST	08/05/09 13:52	08/05/09 15:00	11/15/09 08:40	11/16/09 22:42	N
20090574	S09V001354	SOLID	SW846-9056A	WATER DIGEST	07/30/09 08:25	07/30/09 13:15	11/17/09 09:10	11/17/09 20:49	N
20090574	S09V001355	SOLID	SW846-9056A	WATER DIGEST	07/30/09 08:30	07/30/09 13:15	11/17/09 09:30	11/17/09 22:25	N
20090574	S09V001356	SOLID	SW846-9056A	WATER DIGEST	07/30/09 10:00	07/30/09 13:15	11/17/09 09:40	11/17/09 22:57	N
20090574	S09V001357	SOLID	SW846-9056A	WATER DIGEST	07/30/09 10:38	07/30/09 13:15	11/17/09 09:50	11/17/09 23:29	N
20090574	S09V001358	SOLID	SW846-9056A	WATER DIGEST	07/30/09 12:05	07/30/09 13:15	11/17/09 10:00	11/18/09 00:01	N
20090607	S09V001364	SOLID	SW846-9056A	WATER DIGEST	08/10/09 10:45	08/10/09 13:30	11/18/09 08:35	11/19/09 01:14	N
20090607	S09V001365	SOLID	SW846-9056A	WATER DIGEST	08/10/09 10:45	08/10/09 13:30	11/18/09 08:45	11/19/09 02:50	N
20090607	S09V001366	SOLID	SW846-9056A	WATER DIGEST	08/11/09 08:40	08/11/09 12:40	11/18/09 08:50	11/19/09 03:22	N
20090607	S09V001367	SOLID	SW846-9056A	WATER DIGEST	08/11/09 09:10	08/11/09 12:40	11/18/09 08:55	11/19/09 03:54	N
20090607	S09V001368	SOLID	SW846-9056A	WATER DIGEST	08/11/09 09:45	08/11/09 12:40	11/18/09 09:00	11/19/09 04:26	N
20090607	S09V001369	SOLID	SW846-9056A	WATER DIGEST	08/12/09 08:40	08/12/09 11:00	11/18/09 09:40	11/19/09 06:33	N
20090607	S09V001370	SOLID	SW846-9056A	WATER DIGEST	08/13/09 08:45	08/13/09 14:00	11/18/09 10:00	11/19/09 07:37	N
20090607	S09V001371	SOLID	SW846-9056A	WATER DIGEST	08/13/09 11:20	08/13/09 14:00	11/18/09 10:10	11/19/09 08:09	N
20090607	S09V001372	SOLID	SW846-9056A	WATER DIGEST	08/17/09 10:00	08/17/09 14:30	11/18/09 10:20	11/19/09 08:41	N
20090607	S09V001373	SOLID	SW846-9056A	WATER DIGEST	08/17/09 13:55	08/17/09 14:30	11/18/09 10:30	11/19/09 09:13	N

Holding Time Report **IC-Ammonium EPA-300.7**

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090573	S09V000932	LIQUID	EPA-300.7	Distillation	08/03/09 10:37	08/03/09 14:00	09/08/09	09/08/09 17:34	Y
20090574	S09V000862	SOLID	EPA-300.7	Distillation	07/30/09 08:25	07/30/09 13:15	08/05/09	08/06/09 23:18	N
20090574	S09V000875	SOLID	EPA-300.7	Distillation	07/30/09 08:30	07/30/09 13:15	08/05/09	08/07/09 00:26	N
20090574	S09V000918	SOLID	EPA-300.7	Distillation	07/30/09 10:00	07/30/09 13:15	08/05/09	08/07/09 00:43	N
20090574	S09V000919	SOLID	EPA-300.7	Distillation	07/30/09 10:38	07/30/09 13:15	08/05/09	08/07/09 01:00	N
20090574	S09V000920	SOLID	EPA-300.7	Distillation	07/30/09 12:05	07/30/09 13:15	08/05/09	08/07/09 01:17	N
20090574	S09V001022	SOLID	EPA-300.7	Distillation	08/03/09 08:50	08/03/09 14:00	08/17/09	08/17/09 18:50	Y
20090574	S09V001023	SOLID	EPA-300.7	Distillation	08/04/09 08:45	08/04/09 15:00	08/17/09	08/17/09 19:07	Y
20090574	S09V001024	SOLID	EPA-300.7	Distillation	08/04/09 14:10	08/04/09 15:00	08/17/09	08/17/09 19:58	Y
20090574	S09V001025	SOLID	EPA-300.7	Distillation	08/05/09 09:45	08/05/09 15:00	08/11/09	08/11/09 16:05	N
20090574	S09V001026	SOLID	EPA-300.7	Distillation	08/05/09 13:52	08/05/09 15:00	08/11/09	08/11/09 16:22	N
20090607	S09V001063	SOLID	EPA-300.7	Distillation	08/10/09 10:45	08/10/09 13:30	08/17/09	08/17/09 17:25	N
20090607	S09V001064	SOLID	EPA-300.7	Distillation	08/10/09 10:45	08/10/09 13:30	08/17/09	08/17/09 18:33	N
20090607	S09V001110	SOLID	EPA-300.7	Distillation	08/11/09 08:40	08/11/09 12:40	08/17/09	08/17/09 20:49	N
20090607	S09V001111	SOLID	EPA-300.7	Distillation	08/11/09 09:10	08/11/09 12:40	08/17/09	08/17/09 21:06	N
20090607	S09V001112	SOLID	EPA-300.7	Distillation	08/11/09 09:45	08/11/09 12:40	08/17/09	08/17/09 21:23	N
20090607	S09V001167	SOLID	EPA-300.7	Distillation	08/12/09 08:40	08/12/09 11:00	08/17/09	08/17/09 21:40	N
20090607	S09V001168	SOLID	EPA-300.7	Distillation	08/13/09 08:45	08/13/09 14:00	08/17/09	08/17/09 21:57	N
20090607	S09V001169	SOLID	EPA-300.7	Distillation	08/13/09 11:20	08/13/09 14:00	08/17/09	08/17/09 22:14	N
20090607	S09V001170	SOLID	EPA-300.7	Distillation	08/17/09 10:00	08/17/09 14:30	08/19/09	08/19/09 15:43	N
20090607	S09V001231	SOLID	EPA-300.7	Distillation	08/17/09 13:55	08/17/09 14:30	08/19/09	08/19/09 16:51	N

Hold Time Report **ICP-AES**

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090573	S09V000929	LIQUID	SW846-6010C	N/A	08/03/09 10:37	08/03/09 14:00	N/A	11/19/09 10:35	N
20090574	S09V001017	SOLID	SW846-6010C	SW846-3050B	08/03/09 08:50	08/03/09 14:00	09/15/09 12:02	11/11/09 10:51	N
20090574	S09V001018	SOLID	SW846-6010C	SW846-3050B	08/04/09 08:45	08/04/09 15:00	09/15/09 12:02	11/11/09 13:22	N
20090574	S09V001019	SOLID	SW846-6010C	SW846-3050B	08/04/09 14:10	08/04/09 15:00	09/15/09 12:02	11/11/09 13:25	N
20090574	S09V001020	SOLID	SW846-6010C	SW846-3050B	08/05/09 09:45	08/05/09 15:00	09/15/09 12:02	11/11/09 13:27	N
20090574	S09V001021	SOLID	SW846-6010C	SW846-3050B	08/05/09 13:52	08/05/09 15:00	09/15/09 12:02	11/11/09 13:30	N
20090574	S09V001320	SOLID	SW846-6010C	SW846-3050B	07/30/09 08:25	07/30/09 13:15	11/10/09 12:00	11/12/09 17:09	N
20090574	S09V001321	SOLID	SW846-6010C	SW846-3050B	07/30/09 08:30	07/30/09 13:15	11/10/09 12:00	11/12/09 19:38	N
20090574	S09V001322	SOLID	SW846-6010C	SW846-3050B	07/30/09 10:00	07/30/09 13:15	11/10/09 12:00	11/12/09 19:42	N
20090574	S09V001323	SOLID	SW846-6010C	SW846-3050B	07/30/09 10:38	07/30/09 13:15	11/10/09 12:00	11/12/09 19:45	N
20090574	S09V001324	SOLID	SW846-6010C	SW846-3050B	07/30/09 12:05	07/30/09 13:15	11/10/09 12:00	11/12/09 19:48	N
20090607	S09V001230	SOLID	SW846-6010C	SW846-3050B	08/17/09 13:55	08/17/09 14:30	09/07/09 15:34	11/12/09 15:44	N
20090607	S09V001061	SOLID	SW846-6010C	SW846-3050B	08/10/09 10:45	08/10/09 13:30	09/07/09 15:34	11/12/09 11:05	N
20090607	S09V001062	SOLID	SW846-6010C	SW846-3050B	08/10/09 10:45	08/10/09 13:30	09/07/09 15:34	11/12/09 13:46	N
20090607	S09V001107	SOLID	SW846-6010C	SW846-3050B	08/11/09 08:40	08/11/09 12:40	09/07/09 15:34	11/12/09 14:54	N
20090607	S09V001108	SOLID	SW846-6010C	SW846-3050B	08/11/09 09:10	08/11/09 12:40	09/07/09 15:34	11/12/09 14:57	N
20090607	S09V001109	SOLID	SW846-6010C	SW846-3050B	08/11/09 09:45	08/11/09 12:40	09/07/09 15:34	11/12/09 15:00	N
20090607	S09V001163	SOLID	SW846-6010C	SW846-3050B	08/12/09 08:40	08/12/09 11:00	09/07/09 15:34	11/12/09 15:03	N
20090607	S09V001164	SOLID	SW846-6010C	SW846-3050B	08/13/09 08:45	08/13/09 14:00	09/07/09 15:34	11/12/09 15:08	N
20090607	S09V001165	SOLID	SW846-6010C	SW846-3050B	08/13/09 11:20	08/13/09 14:00	09/07/09 15:34	11/12/09 15:11	N
20090607	S09V001166	SOLID	SW846-6010C	SW846-3050B	08/17/09 10:00	08/17/09 14:30	09/07/09 15:34	11/12/09 15:13	N

Holding Time Report **ICPMS - Tc-99 and Sn-126**

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090573	S09V000929	LIQUID	LA-506-102	N/A	08/03/09 10:37	08/03/09 14:00	N/A	02/09/10 19:36	Y
20090574	S09V000863	SOLID	LA-506-102	SW846-3050B	07/30/09 08:25	07/30/09 13:15	08/06/09	11/05/09 13:26	N
20090574	S09V000876	SOLID	LA-506-102	SW846-3050B	07/30/09 08:30	07/30/09 13:15	08/06/09	11/05/09 14:12	N
20090574	S09V000921	SOLID	LA-506-102	SW846-3050B	07/30/09 10:00	07/30/09 13:15	08/06/09	11/05/09 14:18	N
20090574	S09V000922	SOLID	LA-506-102	SW846-3050B	07/30/09 10:38	07/30/09 13:15	08/06/09	11/05/09 14:25	N
20090574	S09V000923	SOLID	LA-506-102	SW846-3050B	07/30/09 12:05	07/30/09 13:15	08/06/09	11/05/09 14:32	N
20090574	S09V001027	SOLID	LA-506-102	SW846-3050B	08/03/09 08:50	08/03/09 14:00	09/15/09	12/14/09 16:56	N
20090574	S09V001028	SOLID	LA-506-102	SW846-3050B	08/04/09 08:45	08/04/09 15:00	09/15/09	12/14/09 17:14	N
20090574	S09V001029	SOLID	LA-506-102	SW846-3050B	08/04/09 14:10	08/04/09 15:00	09/15/09	12/14/09 17:23	N
20090574	S09V001030	SOLID	LA-506-102	SW846-3050B	08/05/09 09:45	08/05/09 15:00	09/15/09	12/14/09 17:32	N
20090574	S09V001031	SOLID	LA-506-102	SW846-3050B	08/05/09 13:52	08/05/09 15:00	09/15/09	12/14/09 17:42	N
20090607	S09V001065	SOLID	LA-506-102	SW846-3050B	08/10/09 10:45	08/10/09 13:30	09/07/09	11/10/09 11:52	N
20090607	S09V001066	SOLID	LA-506-102	SW846-3050B	08/10/09 10:45	08/10/09 13:30	09/07/09	11/10/09 12:05	N
20090607	S09V001113	SOLID	LA-506-102	SW846-3050B	08/11/09 08:40	08/11/09 12:40	09/07/09	11/10/09 12:12	N
20090607	S09V001114	SOLID	LA-506-102	SW846-3050B	08/11/09 09:10	08/11/09 12:40	09/07/09	11/10/09 12:18	N
20090607	S09V001115	SOLID	LA-506-102	SW846-3050B	08/11/09 09:45	08/11/09 12:40	09/07/09	11/10/09 12:25	N
20090607	S09V001171	SOLID	LA-506-102	SW846-3050B	08/12/09 08:40	08/12/09 11:00	09/07/09	11/10/09 12:31	N
20090607	S09V001172	SOLID	LA-506-102	SW846-3050B	08/13/09 08:45	08/13/09 14:00	09/07/09	11/10/09 12:37	N
20090607	S09V001173	SOLID	LA-506-102	SW846-3050B	08/13/09 11:20	08/13/09 14:00	09/07/09	11/10/09 13:10	N
20090607	S09V001174	SOLID	LA-506-102	SW846-3050B	08/17/09 10:00	08/17/09 14:30	09/07/09	11/10/09 13:16	N
20090607	S09V001232	SOLID	LA-506-102	SW846-3050B	08/17/09 13:55	08/17/09 14:30	09/07/09	11/10/09 13:23	N

Holding Time Report **ICPMS Actinides**

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090573	S09V000929	LIQUID	MS ACTINIDES	NA	08/03/09 10:37	08/03/09 14:00	N/A	11/11/09 13:14	N
20090607	S09V001061	SOLID	MS ACTINIDES	SW846-3050B	08/10/09 10:45	08/10/09 13:30	09/07/09	10/07/09 10:41	N
20090607	S09V001062	SOLID	MS ACTINIDES	SW846-3050B	08/10/09 10:45	08/10/09 13:30	09/07/09	10/07/09 10:55	N
20090607	S09V001107	SOLID	MS ACTINIDES	SW846-3050B	08/11/09 08:40	08/11/09 12:40	09/07/09	10/07/09 11:02	N
20090607	S09V001108	SOLID	MS ACTINIDES	SW846-3050B	08/11/09 09:10	08/11/09 12:40	09/07/09	10/07/09 11:08	N
20090607	S09V001109	SOLID	MS ACTINIDES	SW846-3050B	08/11/09 09:45	08/11/09 12:40	09/07/09	10/07/09 11:15	N
20090607	S09V001163	SOLID	MS ACTINIDES	SW846-3050B	08/12/09 08:40	08/12/09 11:00	09/07/09	10/07/09 11:22	N
20090607	S09V001164	SOLID	MS ACTINIDES	SW846-3050B	08/13/09 08:45	08/13/09 14:00	09/07/09	10/07/09 11:29	N
20090607	S09V001165	SOLID	MS ACTINIDES	SW846-3050B	08/13/09 11:20	08/13/09 14:00	09/07/09	10/07/09 12:09	N
20090607	S09V001166	SOLID	MS ACTINIDES	SW846-3050B	08/17/09 10:00	08/17/09 14:30	09/07/09	10/07/09 12:15	N
20090607	S09V001230	SOLID	MS ACTINIDES	SW846-3050B	08/17/09 13:55	08/17/09 14:30	09/07/09	10/07/09 12:22	N
20090574	S09V001320	SOLID	MS ACTINIDES	SW846-3050B	07/30/09 08:25	07/30/09 13:15	11/10/09	11/12/09 18:27	N
20090574	S09V001321	SOLID	MS ACTINIDES	SW846-3050B	07/30/09 08:30	07/30/09 13:15	11/10/09	11/12/09 18:40	N
20090574	S09V001322	SOLID	MS ACTINIDES	SW846-3050B	07/30/09 10:00	07/30/09 13:15	11/10/09	11/12/09 18:47	N
20090574	S09V001323	SOLID	MS ACTINIDES	SW846-3050B	07/30/09 10:38	07/30/09 13:15	11/10/09	11/12/09 18:54	N
20090574	S09V001324	SOLID	MS ACTINIDES	SW846-3050B	07/30/09 12:05	07/30/09 13:15	11/10/09	11/12/09 19:01	N
20090574	S09V001325	SOLID	MS ACTINIDES	SW846-3050B	08/03/09 08:50	08/03/09 14:00	11/12/09	11/23/09 11:10	N
20090574	S09V001326	SOLID	MS ACTINIDES	SW846-3050B	08/04/09 08:45	08/04/09 15:00	11/12/09	11/23/09 11:23	N
20090574	S09V001327	SOLID	MS ACTINIDES	SW846-3050B	08/04/09 14:10	08/04/09 15:00	11/12/09	11/23/09 11:30	N
20090574	S09V001328	SOLID	MS ACTINIDES	SW846-3050B	08/05/09 09:45	08/05/09 15:00	11/12/09	11/23/09 11:36	N
20090574	S09V001329	SOLID	MS ACTINIDES	SW846-3050B	08/05/09 13:52	08/05/09 15:00	11/12/09	11/23/09 11:43	N
20090607	S09V001577	SOLID	MS ACTINIDES	SW846-3050B	08/10/09 10:45	08/10/09 13:30	12/08/09	12/09/09 13:40	N
20090607	S09V001578	SOLID	MS ACTINIDES	SW846-3050B	08/10/09 10:45	08/10/09 13:30	12/08/09	12/09/09 11:32	N
20090607	S09V001579	SOLID	MS ACTINIDES	SW846-3050B	08/11/09 08:40	08/11/09 12:40	12/08/09	12/09/09 11:37	N
20090607	S09V001580	SOLID	MS ACTINIDES	SW846-3050B	08/11/09 09:10	08/11/09 12:40	12/08/09	12/09/09 13:46	N
20090607	S09V001581	SOLID	MS ACTINIDES	SW846-3050B	08/11/09 09:45	08/11/09 12:40	12/08/09	12/09/09 11:48	N
20090607	S09V001582	SOLID	MS ACTINIDES	SW846-3050B	08/12/09 08:40	08/12/09 11:00	12/08/09	12/09/09 11:54	N
20090607	S09V001583	SOLID	MS ACTINIDES	SW846-3050B	08/13/09 08:45	08/13/09 14:00	12/08/09	12/09/09 11:59	N
20090607	S09V001584	SOLID	MS ACTINIDES	SW846-3050B	08/13/09 11:20	08/13/09 14:00	12/08/09	12/09/09 12:26	N
20090607	S09V001585	SOLID	MS ACTINIDES	SW846-3050B	08/17/09 10:00	08/17/09 14:30	12/08/09	12/09/09 12:31	N
20090607	S09V001586	SOLID	MS ACTINIDES	SW846-3050B	08/17/09 13:55	08/17/09 14:30	12/08/09	12/09/09 12:37	N

Hold Time Report **ICP/MS SW846-6020A**

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding
20090574	S09V001017	SOLID	SW846-6020A	SW846-5030B	08/03/09 08:50	08/03/09 14:00	09/15/09	12/10/09 14:37	N
20090574	S09V001018	SOLID	SW846-6020A	SW846-5030B	08/04/09 08:45	08/04/09 15:00	09/15/09	12/10/09 14:48	N
20090574	S09V001019	SOLID	SW846-6020A	SW846-5030B	08/04/09 14:10	08/04/09 15:00	09/15/09	12/10/09 14:54	N
20090574	S09V001020	SOLID	SW846-6020A	SW846-5030B	08/05/09 09:45	08/05/09 15:00	09/15/09	12/10/09 14:59	N
20090574	S09V001021	SOLID	SW846-6020A	SW846-5030B	08/05/09 13:52	08/05/09 15:00	09/15/09	12/10/09 15:04	N
20090574	S09V001320	SOLID	SW846-6020A	SW846-5030B	07/30/09 08:25	07/30/09 13:15	11/10/09	12/18/09 20:06	N
20090574	S09V001321	SOLID	SW846-6020A	SW846-5030B	07/30/09 08:30	07/30/09 13:15	11/10/09	12/18/09 20:13	N
20090574	S09V001322	SOLID	SW846-6020A	SW846-5030B	07/30/09 10:00	07/30/09 13:15	11/10/09	12/18/09 20:17	N
20090574	S09V001323	SOLID	SW846-6020A	SW846-5030B	07/30/09 10:38	07/30/09 13:15	11/10/09	12/18/09 20:21	N
20090574	S09V001324	SOLID	SW846-6020A	SW846-5030B	07/30/09 12:05	07/30/09 13:15	11/10/09	12/18/09 20:25	N
20090607	S09V001061	SOLID	SW846-6020A	SW846-5030B	08/10/09 10:45	08/10/09 13:30	09/07/09	01/05/10 13:34	N
20090607	S09V001062	SOLID	SW846-6020A	SW846-5030B	08/10/09 10:45	08/10/09 13:30	09/07/09	01/05/10 12:24	N
20090607	S09V001107	SOLID	SW846-6020A	SW846-5030B	08/11/09 08:40	08/11/09 12:40	09/07/09	01/05/10 12:28	N
20090607	S09V001108	SOLID	SW846-6020A	SW846-5030B	08/11/09 09:10	08/11/09 12:40	09/07/09	01/05/10 12:32	N
20090607	S09V001109	SOLID	SW846-6020A	SW846-5030B	08/11/09 09:45	08/11/09 12:40	09/07/09	01/05/10 12:36	N
20090607	S09V001163	SOLID	SW846-6020A	SW846-5030B	08/12/09 08:40	08/12/09 11:00	09/07/09	01/05/10 12:40	N
20090607	S09V001164	SOLID	SW846-6020A	SW846-5030B	08/13/09 08:45	08/13/09 14:00	09/07/09	01/05/10 12:43	N
20090607	S09V001165	SOLID	SW846-6020A	SW846-5030B	08/13/09 11:20	08/13/09 14:00	09/07/09	01/05/10 13:42	N
20090607	S09V001166	SOLID	SW846-6020A	SW846-5030B	08/17/09 10:00	08/17/09 14:30	09/07/09	01/05/10 13:46	N
20090607	S09V001230	SOLID	SW846-6020A	SW846-5030B	08/17/09 13:55	08/17/09 14:30	09/07/09	01/05/10 13:50	N

Holding Time Report VOA

Sample Group	Sample	Matrix	Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20090573	S09V000848	LIQUID	SW846-8260B	07/30/09 07:00	07/30/09 13:15	08/06/09 16:59	N
20090573	S09V000849	LIQUID	SW846-8260B	08/03/09 07:45	08/03/09 14:00	08/06/09 18:28	N
20090573	S09V000850	LIQUID	SW846-8260B	08/04/09 07:10	08/04/09 15:00	08/10/09 14:22	N
20090573	S09V000851	LIQUID	SW846-8260B	08/05/09 07:30	08/05/09 15:00	08/13/09 19:12	N
20090573	S09V000927	LIQUID	SW846-8260B	08/03/09 10:37	08/03/09 14:00	08/06/09 19:27	N
20090574	S09V000853	SOLID	SW846-8260B	08/05/09 13:52	08/05/09 15:00	08/05/09 17:56	N
20090574	S09V000866	SOLID	SW846-8260B	07/30/09 08:30	07/30/09 13:15	08/05/09 18:54	N
20090574	S09V000879	SOLID	SW846-8260B	07/30/09 10:00	07/30/09 13:15	08/05/09 19:24	N
20090574	S09V000888	SOLID	SW846-8260B	07/30/09 10:38	07/30/09 13:15	08/06/09 14:02	N
20090574	S09V000897	SOLID	SW846-8260B	07/30/09 12:05	07/30/09 13:15	08/06/09 14:32	N
20090574	S09V000951	SOLID	SW846-8260B	08/03/09 08:50	08/03/09 14:00	08/05/09 21:51	N
20090574	S09V000960	SOLID	SW846-8260B	08/04/09 08:45	08/04/09 15:00	08/05/09 22:21	N
20090574	S09V000969	SOLID	SW846-8260B	08/04/09 14:10	08/04/09 15:00	08/05/09 22:50	N
20090574	S09V000970	SOLID	SW846-8260B	08/05/09 09:45	08/05/09 15:00	08/06/09 15:01	N
20090574	S09V000971	SOLID	SW846-8260B	08/05/09 13:52	08/05/09 15:00	08/06/09 15:31	N
20090607	S09V001048	SOLID	SW846-8260B	08/10/09 10:45	08/10/09 13:30	08/13/09 13:47	N
20090607	S09V001069	SOLID	SW846-8260B	08/10/09 10:45	08/10/09 13:30	08/13/09 15:45	N
20090607	S09V001074	SOLID	SW846-8260B	08/11/09 08:40	08/11/09 12:40	08/13/09 16:14	N
20090607	S09V001075	SOLID	SW846-8260B	08/11/09 09:10	08/11/09 12:40	08/13/09 16:44	N
20090607	S09V001076	SOLID	SW846-8260B	08/11/09 09:45	08/11/09 12:40	08/13/09 17:13	N
20090607	S09V001119	SOLID	SW846-8260B	08/12/09 08:40	08/12/09 11:00	08/13/09 17:43	N
20090607	S09V001120	SOLID	SW846-8260B	08/13/09 08:45	08/13/09 14:00	08/28/09 14:25	Y
20090607	S09V001121	SOLID	SW846-8260B	08/13/09 11:20	08/13/09 14:00	08/28/09 14:55	Y
20090607	S09V001122	SOLID	SW846-8260B	08/17/09 10:00	08/17/09 14:30	08/27/09 20:24	N
20090607	S09V001212	SOLID	SW846-8260B	08/17/09 13:55	08/17/09 14:30	08/28/09 15:25	N
20090609	S09V001043	LIQUID	SW846-8260B	08/10/09 10:00	08/10/09 13:30	08/13/09 19:41	N
20090609	S09V001044	LIQUID	SW846-8260B	08/11/09 07:10	08/11/09 12:40	08/13/09 21:10	N
20090609	S09V001045	LIQUID	SW846-8260B	08/06/09 07:00	08/12/09 11:00	08/19/09 14:02	N
20090609	S09V001046	LIQUID	SW846-8260B	08/13/09 06:30	08/13/09 14:00	08/27/09 16:25	N
20090609	S09V001047	LIQUID	SW846-8260B	08/17/09 09:30	08/17/09 15:38	08/27/09 17:55	N

Hold Time Report **SVOA**

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090574	S09V000859	SOLID	SW846-8270C	SW846-3540C	07/30/09	07/30/09 13:15	08/10/09	09/01/09 17:54	N
20090574	S09V000872	SOLID	SW846-8270C	SW846-3540C	07/30/09	07/30/09 13:15	08/10/09	09/01/09 18:39	N
20090574	S09V000909	SOLID	SW846-8270C	SW846-3540C	07/30/09	07/30/09 13:15	08/10/09	09/01/09 19:24	N
20090574	S09V000910	SOLID	SW846-8270C	SW846-3540C	07/30/09	07/30/09 13:15	08/10/09	09/01/09 20:08	N
20090574	S09V000911	SOLID	SW846-8270C	SW846-3540C	07/30/09	07/30/09 13:15	08/10/09	09/01/09 20:51	N
20090573	S09V000928	LIQUID	SW846-8270C	SW846-3520C	08/03/09	08/03/09 14:00	08/31/09	09/25/09 22:46	Y
20090574	S09V001007	SOLID	SW846-8270C	SW846-3540C	08/03/09	08/03/09 14:00	08/17/09	09/16/09 16:17	N
20090574	S09V001008	SOLID	SW846-8270C	SW846-3540C	08/04/09	08/04/09 15:00	08/17/09	09/16/09 17:03	N
20090574	S09V001009	SOLID	SW846-8270C	SW846-3540C	08/04/09	08/04/09 15:00	08/17/09	09/16/09 17:48	N
20090574	S09V001010	SOLID	SW846-8270C	SW846-3540C	08/05/09	08/05/09 15:00	08/17/09	09/16/09 18:34	N
20090574	S09V001011	SOLID	SW846-8270C	SW846-3540C	08/05/09	08/05/09 15:00	08/17/09	09/16/09 19:19	N
20090607	S09V001057	SOLID	SW846-8270C	SW846-3540C	08/10/09	08/10/09 13:30	08/24/09	09/17/09 15:07	N
20090607	S09V001058	SOLID	SW846-8270C	SW846-3540C	08/10/09	08/10/09 13:30	08/24/09	09/17/09 15:52	N
20090607	S09V001101	SOLID	SW846-8270C	SW846-3540C	08/11/09	08/11/09 12:40	08/24/09	09/17/09 16:34	N
20090607	S09V001102	SOLID	SW846-8270C	SW846-3540C	08/11/09	08/11/09 12:40	08/24/09	09/17/09 17:19	N
20090607	S09V001103	SOLID	SW846-8270C	SW846-3540C	08/11/09	08/11/09 12:40	08/24/09	09/17/09 18:05	N
20090607	S09V001155	SOLID	SW846-8270C	SW846-3540C	08/12/09	08/12/09 11:00	08/25/09	09/25/09 17:29	N
20090607	S09V001156	SOLID	SW846-8270C	SW846-3540C	08/13/09	08/13/09 14:00	08/25/09	09/25/09 19:48	N
20090607	S09V001157	SOLID	SW846-8270C	SW846-3540C	08/13/09	08/13/09 14:00	08/25/09	09/25/09 20:32	N
20090607	S09V001158	SOLID	SW846-8270C	SW846-3540C	08/17/09	08/17/09 14:30	08/25/09	09/25/09 21:16	N
20090607	S09V001228	SOLID	SW846-8270C	SW846-3540C	08/17/09	08/17/09 14:30	08/25/09	09/25/09 22:02	N

Attachment 4

TENTATIVELY IDENTIFIED COMPOUNDS FOR ORGANIC ANALYSES

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B1YY17
Sample Depth: Equipment Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000927				Unknown-1		7.80	ug/L	1.3	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B21733
Sample Depth: Trip Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000848				Unknown-1		7.80	ug/L	1.9	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B21734
Sample Depth: Trip Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000849				Unknown-1		7.80	ug/L	1.4	JT
S09V000849				Unknown-2		14.95	ug/L	1.4	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090573
Core Number: C7466
Customer Sample ID: B21735
Sample Depth: Trip Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000850				Unknown-1		7.81	ug/L	1.7	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW6
Sample Depth: 5-7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000909		O		Unknown-1		11.36	ug/kg	420	JT
S09V000909		O		Unknown-2		13.28	ug/kg	280	JT
S09V000909		O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	3.2E+03	BJNT
S09V000909		O		Unknown-3		19.01	ug/kg	450	BJT
S09V000909		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	400	JNT
S09V000909		O	BLNK	Unknown-1		18.95	ug/kg	350	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW8
Sample Depth: 5-7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000879				Unknown-1		8.01	ug/kg	4.3	JT
S09V000879				Unknown-2		9.18	ug/kg	4.4	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XW9
Sample Depth: 10-12

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000910		O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	1.8E+03	BJNT
S09V000910		O		Unknown-1		19.00	ug/kg	410	BJT
S09V000910		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	400	JNT
S09V000910		O	BLNK	Unknown-1		18.95	ug/kg	350	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX1
Sample Depth: 10-12

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000888				Unknown-1		8.01	ug/kg	6.4	JT
S09V000888				Unknown-2		9.18	ug/kg	6.1	JT

NA = Not Analyzed, ND = Not Detectec

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E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX2
Sample Depth: 14-16

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000911		O		Ethanol, 2-(2-ethoxyet	111-90-0	7.17	ug/kg	250	JNT
S09V000911		O		Unknown-1		11.36	ug/kg	230	JT
S09V000911		O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	1.2E+03	BJNT
S09V000911		O		Unknown-2		19.02	ug/kg	200	JT
S09V000911		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	400	JNT
S09V000911		O	BLNK	Unknown-1		18.95	ug/kg	350	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX4
Sample Depth: 14-16

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000897				Unknown-1		8.01	ug/kg	7.7	JT
S09V000897				Unknown-2		9.18	ug/kg	8.2	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX5
Sample Depth: 43.5-45.5

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001007	O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	990	BJNT
S09V001007	O		Unknown-1		19.01	ug/kg	150	BJT
S09V001007	O	BLNK	Oxirane, trimethyl-	5076-19-7	3.06	ug/kg	220	JNT
S09V001007	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	630	JNT
S09V001007	O	BLNK	Unknown-1		18.97	ug/kg	320	JT
S09V001007	O	BLNK	1-Heptadecanol	1454-85-9	19.03	ug/kg	290	JNT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B20XX7
Sample Depth: 43.5-45.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000951				Unknown-1		8.01	ug/kg	1.3	JT
S09V000951				Unknown-2		9.17	ug/kg	1.4	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211E3
Sample Depth: 84-86

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001008		O		1,2-Benzenedicarboxyli	84-69-5	15.08	ug/kg	4.9E+03	BJNT
S09V001008		O		Unknown-1		19.01	ug/kg	270	BJT
S09V001008		O		Unknown-2		20.71	ug/kg	220	JT
S09V001008		O		Unknown-3		20.83	ug/kg	330	JT
S09V001008		O		Unknown-4		21.10	ug/kg	200	JT
S09V001008		O	BLNK	Oxirane, trimethyl-	5076-19-7	3.06	ug/kg	220	JNT
S09V001008		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	630	JNT
S09V001008		O	BLNK	Unknown-1		18.97	ug/kg	320	JT
S09V001008		O	BLNK	1-Heptadecanol	1454-85-9	19.03	ug/kg	290	JNT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W6
Sample Depth: 109.5-111.5

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001009	O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	2.6E+03	BJNT
S09V001009	O		7,9-Di-tert-butyl-1-ox	82304-66-3	15.44	ug/kg	200	JNT
S09V001009	O		Unknown-1		15.73	ug/kg	350	JT
S09V001009	O		Unknown-2		19.00	ug/kg	440	BJT
S09V001009	O	BLNK	Oxirane, trimethyl-	5076-19-7	3.06	ug/kg	220	JNT
S09V001009	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	630	JNT
S09V001009	O	BLNK	Unknown-1		18.97	ug/kg	320	JT
S09V001009	O	BLNK	1-Heptadecanol	1454-85-9	19.03	ug/kg	290	JNT

NA = Not Analyzed, ND = Not Detectec

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E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211W9
Sample Depth: 114-116

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001010	O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	1.1E+03	BJNT
S09V001010	O		Unknown-1		16.60	ug/kg	300	JT
S09V001010	O	BLNK	Oxirane, trimethyl-	5076-19-7	3.06	ug/kg	220	JNT
S09V001010	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	630	JNT
S09V001010	O	BLNK	Unknown-1		18.97	ug/kg	320	JT
S09V001010	O	BLNK	1-Heptadecanol	1454-85-9	19.03	ug/kg	290	JNT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X1
Sample Depth: 114-116

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000970				1-Hexanol, 2-ethyl-	104-76-7	16.46	ug/kg	2.4	JNT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X2
Sample Depth: 133-135

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001011		O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	840	BJNT
S09V001011		O		Unknown-1		19.01	ug/kg	320	BJT
S09V001011		O	BLNK	Oxirane, trimethyl-	5076-19-7	3.06	ug/kg	220	JNT
S09V001011		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	630	JNT
S09V001011		O	BLNK	Unknown-1		18.97	ug/kg	320	JT
S09V001011		O	BLNK	1-Heptadecanol	1454-85-9	19.03	ug/kg	290	JNT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X4
Sample Depth: 133-135

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000971				1-Hexanol, 2-ethyl-	104-76-7	16.46	ug/kg	1.9	JNT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211X9
Sample Depth: Surface

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000853				Unknown-1		8.01	ug/kg	2.7	JT
S09V000853				Unknown-2		9.18	ug/kg	2.7	JT

NA = Not Analyzed, ND = Not Detectec

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E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B211Y0
Sample Depth: Surface Dup

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000866				Unknown-1		8.01	ug/kg	1.1	JT
S09V000866				Unknown-2		9.18	ug/kg	1.2	JT

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T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K8
Sample Depth: Surface

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000859		O		Unknown-1		11.36	ug/kg	570	JT
S09V000859		O		Unknown-2		13.28	ug/kg	330	JT
S09V000859		O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	1.5E+03	BJNT
S09V000859		O		Unknown-3		18.98	ug/kg	250	BJT
S09V000859		O		Unknown-4		19.02	ug/kg	260	BJT
S09V000859		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	400	JNT
S09V000859		O	BLNK	Unknown-1		18.95	ug/kg	350	JT

NA = Not Analyzed, ND = Not Detectec

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E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090574
Core Number: C7466
Customer Sample ID: B215K9
Sample Depth: Surface Dup

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000872	O		Ethanol, 2-(2-ethoxyet	111-90-0	7.17	ug/kg	210	JNT
S09V000872	O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	860	BJNT
S09V000872	O		Unknown-1		18.97	ug/kg	480	BJT
S09V000872	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	400	JNT
S09V000872	O	BLNK	Unknown-1		18.95	ug/kg	350	JT

NA = Not Analyzed, ND = Not Detectec

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E - Outside Calibration Range
T - Tentatively Identified Compound
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B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y3
Sample Depth: 5-7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001101		O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	1.2E+03	BJNT
S09V001101		O		Unknown-1		18.96	ug/kg	660	JT
S09V001101		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	550	JNT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y6
Sample Depth: 10-12

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001102		O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	770	BJNT
S09V001102		O		Unknown-1		18.96	ug/kg	590	JT
S09V001102		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	550	JNT

NA = Not Analyzed, ND = Not Detectec

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E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B211Y9
Sample Depth: 14-16

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001103		O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	730	BJNT
S09V001103		O		Unknown-1		18.96	ug/kg	610	JT
S09V001103		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	550	JNT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21201
Sample Depth: 14-16

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001076				Unknown-1		8.01	ug/kg	4.4	JT
S09V001076				Unknown-2		9.18	ug/kg	4.6	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21202
Sample Depth: 43.5-45.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001155		O		1,2-Benzenedicarboxyli	84-69-5	15.14	ug/kg	780	BJNT
S09V001155		O	BLNK	Unknown-1		2.72	ug/kg	210	JT
S09V001155		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.14	ug/kg	430	JNT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21204
Sample Depth: 43.5-45.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001119				Unknown-1		8.01	ug/kg	2.5	JT
S09V001119				Unknown-2		9.18	ug/kg	2.0	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21205
Sample Depth: 92-94

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001156		O		1,2-Benzenedicarboxyli	84-69-5	15.14	ug/kg	1000	BJNT
S09V001156		O		7,9-Di-tert-butyl-1-ox	82304-66-3	15.51	ug/kg	220	JNT
S09V001156		O		Unknown-1		20.93	ug/kg	270	JT
S09V001156		O		Unknown-2		21.20	ug/kg	220	JT
S09V001156		O	BLNK	Unknown-1		2.72	ug/kg	210	JT
S09V001156		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.14	ug/kg	430	JNT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21207
Sample Depth: 92-94

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001120				Cyclopentane, methyl-	96-37-7	9.58	ug/kg	1.7	JNT
S09V001120				Unknown-1		17.05	ug/kg	1.6	BJT
S09V001120			BLNK	Unknown-1		17.05	ug/kg	8.9	JT

NA = Not Analyzed, ND = Not Detectec

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T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21208
Sample Depth: 97-99

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001157		O		1,2-Benzenedicarboxyli	84-69-5	15.15	ug/kg	4.4E+03	BJNT
S09V001157		O	BLNK	Unknown-1		2.72	ug/kg	210	JT
S09V001157		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.14	ug/kg	430	JNT

NA = Not Analyzed, ND = Not Detectec

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E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21210
Sample Depth: 97-99

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001121				Unknown-1		7.41	ug/kg	1.3	JT
S09V001121				Unknown-2		16.85	ug/kg	1.8	JT
S09V001121				Unknown-3		17.86	ug/kg	1.3	JT
S09V001121			BLNK	Unknown-1		17.05	ug/kg	8.9	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21211
Sample Depth: 125-127

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001158		O		Ethanol, 2-(2-ethoxyet	111-90-0	7.24	ug/kg	230	JNT
S09V001158		O	BLNK	Unknown-1		2.72	ug/kg	210	JT
S09V001158		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.14	ug/kg	430	JNT

NA = Not Analyzed, ND = Not Detectec

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E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21213
Sample Depth: 125-127

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001122				Unknown-1		7.42	ug/kg	2.8	JT
S09V001122				Unknown-2		8.42	ug/kg	4.4	JT
S09V001122				Cyclopentane, methyl-	96-37-7	9.57	ug/kg	3.7	JNT
S09V001122			BLNK	Unknown-1		6.16	ug/kg	2.3	JT
S09V001122			BLNK	Unknown-2		15.33	ug/kg	2.7	JT
S09V001122			BLNK	Unknown-3		17.05	ug/kg	3.2	JT
S09V001122			BLNK	Unknown-4		18.91	ug/kg	4.0	JT

NA = Not Analyzed, ND = Not Detectec

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T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21214
Sample Depth: 135-137

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001228		O		1,2-Benzenedicarboxyli	84-69-5	15.14	ug/kg	1.5E+03	BJNT
S09V001228		O	BLNK	Unknown-1		2.72	ug/kg	210	JT
S09V001228		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.14	ug/kg	430	JNT

NA = Not Analyzed, ND = Not Detectec

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T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B21216
Sample Depth: 135-137

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001212				Unknown-1		8.43	ug/kg	3.8	JT
S09V001212				Cyclopentane, methyl-	96-37-7	9.57	ug/kg	2.6	JNT
S09V001212				Unknown-2		15.33	ug/kg	5.1	JT
S09V001212				Unknown-3		16.85	ug/kg	3.2	JT
S09V001212			BLNK	Unknown-1		17.05	ug/kg	8.9	JT

NA = Not Analyzed, ND = Not Detectec

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E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

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DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L0
Sample Depth: Surface

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001057		O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	270	BJNT
S09V001057		O		Bromacil	314-40-9	15.74	ug/kg	660	JNT
S09V001057		O		Unknown-1		18.97	ug/kg	1.4E+03	JT
S09V001057		O		Unknown-2		20.25	ug/kg	580	JT
S09V001057		O		Unknown-3		22.88	ug/kg	710	JT
S09V001057		O		Unknown-4		27.93	ug/kg	390	JT
S09V001057		O		Stigmast-4-en-3-one	1058-61-3	29.09	ug/kg	1.1E+03	JNT
S09V001057		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	550	JNT

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T - Tentatively Identified Compound
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B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090607
Core Number: C7468
Customer Sample ID: B215L1
Sample Depth: Surface Dup

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001058	O		Unknown-1		12.99	ug/kg	190	JT
S09V001058	O		1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	520	BJNT
S09V001058	O		Bromacil	314-40-9	15.74	ug/kg	660	JNT
S09V001058	O		Unknown-2		18.96	ug/kg	1000	JT
S09V001058	O		Unknown-3		20.22	ug/kg	570	JT
S09V001058	O		Unknown-4		22.88	ug/kg	680	JT
S09V001058	O		Unknown-5		23.39	ug/kg	300	JT
S09V001058	O		Unknown-6		23.65	ug/kg	490	JT
S09V001058	O		Unknown-7		28.38	ug/kg	870	JT
S09V001058	O		Stigmast-4-en-3-one	1058-61-3	29.09	ug/kg	1.1E+03	JNT
S09V001058	O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.07	ug/kg	550	JNT

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B - Found in Blank
N - Named TIC
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27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21737
Sample Depth: Trip Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001043				Isopropyl Alcohol	67-63-0	7.80	ug/L	1.9	JNT

NA = Not Analyzed, ND = Not Detectec

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E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21739
Sample Depth: Trip Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001045				Unknown-1		15.05	ug/L	3.0	BJT
S09V001045				Unknown-2		16.76	ug/L	5.1	BJT
S09V001045			BLNK	Unknown-1		4.73	ug/L	1.3	JT
S09V001045			BLNK	Unknown-2		15.05	ug/L	16	JT
S09V001045			BLNK	Unknown-3		16.75	ug/L	6.5	JT

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T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21740
Sample Depth: Trip Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001046				Unknown-1		8.20	ug/L	2.3	JT
S09V001046				Unknown-2		15.33	ug/L	1.4	BJT
S09V001046				Unknown-3		17.05	ug/L	1.9	BJT
S09V001046			BLNK	Unknown-1		15.33	ug/L	1.7	JT
S09V001046			BLNK	Unknown-2		17.05	ug/L	11	JT

NA = Not Analyzed, ND = Not Detectec

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E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

27-Apr-2010 16:3644
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090609
Core Number: C7468
Customer Sample ID: B21741
Sample Depth: Trip Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V001047				Unknown-1		6.15	ug/L	1.3	JT
S09V001047				Unknown-2		8.20	ug/L	1.5	JT
S09V001047				Unknown-3		15.33	ug/L	2.9	BJT
S09V001047				Unknown-4		17.05	ug/L	4.1	BJT
S09V001047			BLNK	Unknown-1		15.33	ug/L	1.7	JT
S09V001047			BLNK	Unknown-2		17.05	ug/L	11	JT

NA = Not Analyzed, ND = Not Detectec

U - Less Than Detection Limit
E - Outside Calibration Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range
B - Found in Blank
N - Named TIC
J - Estimated

Attachment 5

CORRESPONDENCE

Ritenour, Gerald P

From: Ritenour, Gerald P
Sent: Thursday, August 27, 2009 9:54 AM
To: McKinney, Steve G
Cc: Prilucik, John R; Wyse, Eric J; Bushaw, Thomas H; Kuhl-Klinger, Kristine J; Bull, Kevin M; Schroeder, Robert W; Duchsherer, Mark J
Subject: C Farm C7466 Missed holding times

Steve,

The following analysis exceeded the SW846-8270 holding time of 14 days, due to an oversight during log-in and log-in review (SVOA prep was not added to the SVOA analysis and therefore it did not appear on the chemist backlog).
B1YY17- Equipment Blank, Sampled on 8/3/09 extraction scheduled for today, SW846 holding time is 14 days to extraction.

The following samples exceeded the administrative holding time in the SAP of 7 days for ammonium by EPA 300.7 (no regulatory holding for ammonium analysis in a solid exist). The exact cause of this error is in question at this time.
B20XX5: sampled 8/3/09, distilled/analyzed 8/17/09
B211W3 and B211W6: sampled 8/4/09, distilled/analyzed 8/17/09

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

Ritenour, Gerald P

From: Ritenour, Gerald P
Sent: Monday, August 17, 2009 4:50 PM
To: McKinney, Steve G
Cc: Ross, Roxie R; Wyse, Eric J; Bushaw, Thomas H; Kuhl-Klinger, Kristine J; Bull, Kevin M
Subject: C Farm Holding Missed for Sulfide

Steve,
The lab analyzed the Equipment Blank sample for Sulfide 8 days after receipt. If you have any questions or need additional information please let me know
JR

Gerald "JR" Ritenour
Project Manager
ATL International, Inc.
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gerald_p_ritenour@rl.gov

Ritenour, Gerald P

From: Ritenour, Gerald P
Sent: Tuesday, September 08, 2009 10:27 AM
To: McKinney, Steve G
Cc: Kuhl-Klinger, Kristine J; Wyse, Eric J; Bull, Kevin M; Schroeder, Robert W
Subject: C Farm Miss Holding Time NH3

Steve,
The Ammonia analysis for Sample B1YY17 (equipment Blank) has yet to be performed. It is schedule for today. The holding time for the unpreserved sample is 7 days, It was sampled on 8/3/09.

Gerald "JR" Ritenour
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Ritenour, Gerald P

From: Duchsherer, Mark J
Sent: Monday, August 31, 2009 8:36 AM
To: Ritenour, Gerald P
Subject: RE: Failure to meet VOA hold times C-Farm Vadose

Yes. s/be S09V001120 & S09V001121

Sorry about the typo.

Mark Duchsherer

From: Ritenour, Gerald P
Sent: Monday, August 31, 2009 7:59 AM
To: Duchsherer, Mark J; McKinney, Steve G
Subject: RE: Failure to meet VOA hold times C-Farm Vadose

Mark,
I that is 1121 not 1021.

Steve
Client Sample # B21207 (S09V001120) and B21210(S09V001121)

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

From: Duchsherer, Mark J
Sent: Sunday, August 30, 2009 11:30 AM
To: Ritenour, Gerald P; McKinney, Steve G
Cc: Hansen, Daniel R
Subject: Failure to meet VOA hold times C-Farm Vadose

******* FAILURE TO MEET HOLD TIME *******

Due to the internal standard and surrogate failures with the original analysis on 08/27/09, Sample S09V001120 and S09V001021 failed to meet their required 14-day hold time requirement. The hold time for these samples expired on 08/27/09. The rerun analyses for these samples were completed 1 day outside of the required hold time (on 08/28/09).

Ritenour, Gerald P

Subject: FW: C-Farm SerDil Failures

Gerald "JR" Ritenour
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gerald_p_ritenour@rl.gov

From: McKinney, Steve G
Sent: Tuesday, January 05, 2010 4:40 PM
To: Ritenour, Gerald P
Subject: FW: C-Farm SerDil Failures

From: Templeton, Andrew M
Sent: Monday, January 04, 2010 3:36 PM
To: McKinney, Steve G
Subject: FW: C-Farm SerDil Failures

Steve,

We are not requesting any re-runs for the reasons given below. Please ensure that the data is appropriately flagged and explained in the narrative.

Thanks!

Andrew M. Templeton
Scientist II/System Engineer
Vadose Zone Program
WRPS.

Ph. 509-373-5589
Fax 509-372-3106
Cell 438-0701

Andrew_M_Templeton@rl.gov

From: Dunbar, Kathryn J
Sent: Monday, January 04, 2010 12:21 PM
To: Myers, David A (Dave); Templeton, Andrew M; Connelly, Michael
Cc: Eberlein, Susan J; Bergeron, Marcel P
Subject: RE: C-Farm SerDil Failures

According to SW-846 Method 6010C, ATL is not required to rerun the matrix spikes because the post digestion spikes passed. Also according to SW-846 Chapter One, matrix spikes are not required when the sample concentration is greater than 0.1% (1000 ppm), which it is in several of these cases. I agree that sample inhomogeneity is a problem with soil samples and is contributing to these matrix spike and RPD failures. I don't think rerunning is worth the effort and time for either the matrix spike or serial dilution failures. Any QC failures should be flagged appropriately, however.

Kathi Dunbar
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washington**river**
protection*solutions*

Please consider the environment before printing this email

From: Myers, David A (Dave)
Sent: Monday, January 04, 2010 11:44 AM
To: Templeton, Andrew M; Connelly, Michael; Dunbar, Kathryn J
Cc: Eberlein, Susan J; Bergeron, Marcel P
Subject: RE: C-Farm SerDil Failures

I am thinking that the majority of elements, on which we are having the failures, are immaterial to the questions concerning whether or not the soils are contaminated. Strontium/Yttrium differences should be able to be resolved by radiological analyses; eliminating two more from concern. Shakespeare may have had it right "Much ado about Nothing".

From: Templeton, Andrew M
Sent: Monday, January 04, 2010 8:46 AM
To: Connelly, Michael; Dunbar, Kathryn J
Cc: Eberlein, Susan J; Myers, David A (Dave); Bergeron, Marcel P
Subject: RE: C-Farm SerDil Failures

I spoke to Steve this morning and these serial dilution failures will generate, I believe an "E" Flag as eluded to below. They have a procedure that defines these flags, GD-1028 or GD-1048, I will take a look at them. I need to give Steve some direction today on how to proceed.

Unless someone disagrees I am probably not going to require re-runs for the reasons given below. If I thought we would get some improved results from a re-run I would do it but the lab is telling me that re-runs may allow us to pass on some and fail on others.

There are also some Matrix Spike failures that are discussed below. I wonder what their QA thinks about it.

Thanks

Andrew

From: McKinney, Steve G
Sent: Wednesday, December 30, 2009 11:02 AM
To: Templeton, Andrew M; Connelly, Michael; Dunbar, Kathryn J
Cc: Ritenour, Gerald P; Prilucik, John R
Subject: FW: C-Farm SerDil Failures

Bottom line – there are always going to be QC issues when you run this many elements on a matrix such as dirt. I'm not sure we would see improvement with a series of reruns, and would likely generate additional concerns - missed required detection limits due to additional dilutions, and other RPD and spike failures due to the reasons listed – sample heterogeneity and interference. This is a late breaking issue because, as you recall the ICP was one of the last things completed.

However, we can ask the lab to rerun this, in hopes of seeing some improvement – it will potentially cost up to two weeks by the time it is re-digested, rerun and incorporated into the report.

Let me know what you think.

Thanks.

From: Ritenour, Gerald P
Sent: Wednesday, December 30, 2009 9:28 AM
To: McKinney, Steve G
Cc: Ritenour, Gerald P
Subject: FW: C-Farm SerDil Failures

Steve,
Let's discuss before you send this on.

Thanks, JR

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

From: Ritenour, Gerald P
Sent: Tuesday, December 29, 2009 8:25 AM
To: McKinney, Steve G
Subject: C-Farm SerDil Failures

Steve,
We have had some QC failures for the ICP analysis. For serial dilutions (see below). SW846 requires that we dilute by 5X and rerun. However the elements that are failing are common soil, and rock forming elements that have been partially leached by the weak acid digestion (SW846-3050) used for this analysis. We believe that the high levels of Fe and Al are causing a signal interference with the other elements. The SW846 requires that the percent difference be ≤ 10%. Failures will be flagged with an "e". We can rerun for only the elements that failed, but this would take a week or two before final result are approved. I do not believe any useful information would be gained, since these results would only represent the weak acid soluble faction of common rock and soil forming elements.

ICP Serial Dilution Failures

Batch	Elements	%D
16229	Mn	-19.3
16822	P	-10.04
	Mg	-11.6
	Ca	-13.0
	Fe	-11.1
	Mn	-11.5
	Si	-12.4
16778	Mg	-13.7
	P	-13.2
	Si	-13.4
	Ti	-11.4
16820	Ca	-10.5
16815	Si	-13.6
	Ti	-11.4
	Mn	-14.8

Note: Negative %D indicates the sample result was < the serial dilution result

Matrix spike have also failed in some batches (see table below). The laboratory believes this is due to the same interferences that are causing the serial dilution failures and to non-homogeneity . Na and K failed the most frequently and they always failed high. This certainly due to matrix interference. Ca and Mg spike failures below appear to be to due sample non-homogeneity. None of the post digestion spikes failed. This supports the belief that interference for Fe and Al are contributing to the matrix spike failure. The laboratory does not believe that reanalysis will necessarily improve the spike recoveries, unless an smaller aliquot is used to reduce the interferences. This of course would increase the detection limits and in some case result in non-detected results.

As stated above laboratory believes the samples are at times very non-homogeneous. This was evident from the IC analysis. Reanalysis is not expect to necessary improve the RPD results. Note that Silicon at times fails both RPD and MS recovery. This is because this particular method is not suited for analyzing silicon in highly siliceous materials (soil).

Finally, silicon and tantalum have at least one failed LCS. Historically the laboratory has not reanalysis for QC failure of secondary analytes. Is this acceptable for Vadose samples?

Core	Customer Sample ID	Sample Depth	SAMPLE_R	ANALYTE	RESULT UNIT	STD	RESULT	DUP	RPD	SPK_REC	Det Limit	QUALIFIER	Batch
C6400	B1YTH1	5-7	S09V000631	Potassium	ug/g	91.7	1.02E+03	1.10E+03	7.32	144	94.7	b	16002
C6400	B1YTH1	5-7	S09V000631	Sodium	ug/g	93.6	636	651	2.21	155	18.9	b	16002
C6402	B20XW3	14-16	S09V001319	Potassium	ug/g	114	1.38E+03	1.76E+03	23.8	200	91.8	b	16778
C6402	B20XW3	14-16	S09V001319	Sodium	ug/g	104	451	481	6.46	166	18.4	b	16778
C6402	B20XW3	14-16	S09V001319	Praseodymium	ug/g	95.0	2.52	1.79	34.1	93.1	1.84	Jc	16778
C6402	B20XW3	14-16	S09V001319	Rubidium	ug/g	85.4	265	204	25.6	55.9	184	Jb	16778
C6402	B20XW3	14-16	S09V001319	Silicon	ug/g	51.5	9.25E+02	1.10E+03	17.3	137	5.51	ab	16778
C6406	B1YTC9	5-7	S09V001310	Aluminum	ug/g	90.7	7.18E+03	5.03E+03	35.2	650	5.72	c	16822
C6406	B1YTC9	5-7	S09V001310	Calcium	ug/g	85.6	7.69E+03	5.10E+03	40.4	497	9.54	bc	16822
C6406	B1YTC9	5-7	S09V001310	Copper	ug/g	92.8	12.4	7.93	44.0	94.6	0.954	c	16822
C6406	B1YTC9	5-7	S09V001310	Iron	ug/g	92.2	2.24E+04	1.51E+04	39.1	384	0.954	ce	16822
C6406	B1YTC9	5-7	S09V001310	Potassium	ug/g	86.0	1.30E+03	1.04E+03	22.0	168	95.4	b	16822
C6406	B1YTC9	5-7	S09V001310	Magnesium	ug/g	89.1	4.89E+03	3.28E+03	39.4	236	9.54	c	16822
C6406	B1YTC9	5-7	S09V001310	Manganese	ug/g	90.5	349	233	39.8	96.2	0.572	ce	16822
C6406	B1YTC9	5-7	S09V001310	Sodium	ug/g	90.0	298	191	43.5	163	19.1	bc	16822
C6406	B1YTC9	5-7	S09V001310	Neodymium	ug/g	97.8	25.6	17.0	40.2	94.7	1.91	c	16822
C6406	B1YTC9	5-7	S09V001310	Phosphorus	ug/g	89.3	908	530	52.6	74.5	9.54	bc	16822
C6406	B1YTC9	5-7	S09V001310	Strontium	ug/g	95.7	39.1	26.4	38.8	96.7	0.572	c	16822
C6406	B1YTC9	5-7	S09V001310	Titanium	ug/g	91.0	1.82E+03	1.14E+03	45.7	107	0.954	c	16822
C6406	B1YTC9	5-7	S09V001310	Yttrium	ug/g	93.1	9.44	5.78	48.0	89.0	0.382	c	16822
C6406	B1YTC9	5-7	S09V001310	Zinc	ug/g	89.1	40.9	28.8	34.7	90.2	0.954	c	16822
C7466	B20XX5	43.5-45.5	S09V001017	Manganese	ug/g	90.6	294	221	28.4	89.7	0.516	ce	16815

C7466	B20XX5	43.5-45.5	S09V001017	Strontium	ug/g	95.1	32.5	25.3	24.8	94.3	0.516	c	16815
C7466	B215K8	Surface	S09V001320	Barium	ug/g	84.2	62.2	165	90.6	107	0.595	c	16820
C7466	B215K8	Surface	S09V001320	Potassium	ug/g	86.9	9.54E+02	1.99E+03	70.3	216	99.2	Jb	16820
C7466	B215K8	Surface	S09V001320	Lanthanum	ug/g	83.8	10.3	15.4	40.3	99.0	0.595	c	16820
C7466	B215K8	Surface	S09V001320	Magnesium	ug/g	99.2	4.05E+03	6.90E+03	52.0	311	9.92	bc	16820
C7466	B215K8	Surface	S09V001320	Sodium	ug/g	96.4	179	294	48.5	197	19.8	Jb	16820
C7466	B215K8	Surface	S09V001320	Neodymium	ug/g	0.864	24.1	34.0	33.9	99.9	1.98	c	16820
C7466	B215K8	Surface	S09V001320	Niobium	ug/g	104	<5.95	<5.96	n/a	25.7	5.95	Ub	16820
C7466	B215K8	Surface	S09V001320	Silicon	ug/g	72.2	465	561	18.8	160	5.95	ab	16820
C7466	B215K8	Surface	S09V001320	Tantalum	ug/g	n/a	11.1	17.4	44.0	9.65	9.92	Jab	16820
C7466	B215K8	Surface	S09V001320	Titanium	ug/g	85.5	1.71E+03	2.38E+03	32.9	167	0.992	bc	16820
C7466	B215K8	Surface	S09V001320	Tungsten	ug/g	84.8	42.1	<39.8	n/a	64.1	39.7	Jb	16820
C7466	B215K8	Surface	S09V001320	Yttrium	ug/g	86.6	9.03	12.6	33.3	92.1	0.397	c	16820
C7466	B215K8	Surface	S09V001320	Zirconium	ug/g	82.5	17.9	24.9	32.8	95.3	0.992	c	16820

a - LCS Outside Range
b - MS Outside Range
c - RPD Outside Range

Please let us know if reanalysis is necessary.
Thanks, JR

Gerald "JR" Ritenour
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Ritenour, Gerald P

From: Templeton, Andrew M
Sent: Monday, November 02, 2009 4:29 PM
To: McKinney, Steve G
Cc: Ritenour, Gerald P; Eberlein, Susan J; Connelly, Michael; Dunbar, Kathryn J; Myers, David A (Dave)
Subject: RE: ICP DLs

Steve,

Please move any specific analytes to the ICP/MS that will allow us to meet the required detection limits. We may need to change Table 4-1 to reflect ICP/MS as the analytical method rather than the alternative method in future FSAP revisions. If we do Sb, Cd, As, Tl, Ag, and V by ICP/MS and we increase the sample size on the AES to get the Cr and Co, how will we meet the nickel and uranium, RDLs?

Thanks!

Andrew

From: McKinney, Steve G
Sent: Wednesday, October 28, 2009 8:26 AM
To: Templeton, Andrew M
Cc: Ritenour, Gerald P
Subject: FW: ICP DLs

In order to meet the FSAP RDL, we would have to move Sb, Cd, As, Tl, Ag, and V to the ICP/MS. The down side is that we would be adding "PER-TAB" – yet another ICP/MS run, on an instrument that has a significant backlog. The current FSAP does require ICP-AES as the primary method.

Do we need to move these to the ICP/MS?

Thanks.

From: Ritenour, Gerald P
Sent: Tuesday, October 27, 2009 4:52 PM
To: McKinney, Steve G
Subject: ICP DLs

Steve,
In table below, the metals shown in black are the ones that meet the FSAP specified RDL, the metals in red are the ones that miss the RDL. The column labeled MDL / 5 is are MDL divided by 5, which is based on the maximum increase in sample size possible using this method. Using the elevated sample amount may help in most cases, because then some digestions would need to be diluted due interferences – I.e., large amounts of Fe. Only Cr and Co would potentially be improved with a larger aliquot. Obviously the other metals could have been logged in for ICP/MS in order to meet the RDL. The new digest will use 1.25g in order to obtain the Cr and Co RDL. I am not planning on rerunning the completed batches in ICPAES. Let me know if that is OK

SAMPLE_R	ANALYTE	RESULT	Det Limit	RDL	MDL / 5
S09V000195	Aluminum	7.80E+03	30.3	5	
S09V000195	Antimony	<50.5	50.5	0.5	10.1
S09V000195	Arsenic	<60.6	60.6	1	12.12

S09V000195	Barium	77.1	3.03	**10.2**	
S09V000195	Beryllium	<1.01	1.01	**1**	
S09V000195	Boron	<30.3	30.3		
S09V000195	Cadmium	<5.05	5.05	0.4	1.01
S09V000195	Calcium	1.18E+04	50.5		
S09V000195	Chromium	6.84	5.05	4.2	**1.01**
S09V000195	Cobalt	15.6	10.1	2	**2.02**
S09V000195	Copper	12.5	5.05	**5**	
S09V000195	Lead	<50.5	50.5	**5**	
S09V000195	Lithium	8.30	3.03	**3.5**	
S09V000195	Manganese	369	3.03	**110**	
S09V000195	Molybdenum	<20.2	20.2		
S09V000195	Nickel	<20.2	20.2	3	4.04
S09V000195	Selenium	<101	101		
S09V000195	Silver	<5.05	5.05	0.2	1.01
S09V000195	Thallium	<101	101	0.1	20.2
S09V000195	Tin	<30.3	30.3	**50**	
S09V000195	Uranium	<101	101	0.5	20.2
S09V000195	Vanadium	59.9	5.05	0.2	1.01
S09V000195	Zinc	48.6	5.05	**8.6**	

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Ritenour, Gerald P

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

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

Thanks.

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

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

Please consider the environment before printing this email

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

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

Hi Kathy.

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

Let me know.

Thanks.

Attachment 6

RECEIPT PAPERWORK

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-015	PAGE 1 OF 1
COLLECTOR: KAUER, ROSANE, RUST	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: WMA-C Tank Farm - TB1	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 74	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

53° 12°C

SPECIAL HANDLING AND/OR STORAGE: 222SZ0090573

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21733	WATER	7-30-09	0700	✓
509V000848				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	7-30-09 1315	[signature] RASteele	7-30-09 1315

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-141	PAGE 1 OF 2
COLLECTOR: Kauer, Rust, Rosane	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7466; Surface	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS74	ACTUAL SAMPLE DEPTH: 0-1	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE: 222S20090574

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B211X9	SOIL	07-30-09	08:25	✓	✓
S09V000853	Lo				
S09V000854	Hi				

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Ed Kauer / [signature]	7-30-09 1315	RECEIVED BY/STORED IN: [signature] R Steele	7-30-09 1315
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-141	PAGE 2 OF 2
COLLECTOR KAUSK, RUST, ROSANE	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 PS74	ACTUAL SAMPLE DEPTH 0-1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A. ** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-140	PAGE 1 OF 1
COLLECTOR: Kauer, Rust, Rosare	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7466; Surface	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS24	ACTUAL SAMPLE DEPTH: 0-1	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

53 12°C

SPECIAL HANDLING AND/OR STORAGE: 222S20090574

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211X8	SOIL	07-30-09	0825	✓
509V000855				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E.J. Kauer / E.J. Kauer	7-30-09 / 1315	R.H. Steele / R.H. Steele	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-174	PAGE 1 OF 2
COLLECTOR: Kauer, Rust, Rosane	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; Surface	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 74	ACTUAL SAMPLE DEPTH: 0-1	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A PCB 7/29/09		BILL OF LADING/AIR BILL NO.: N/A		

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

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

53 12°C

SPECIAL HANDLING AND/OR STORAGE: 2225200905 74

PRESERVATION	~~Cool~~ 6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B215K8	SOIL	7-30-09	08:25
S09V000856			
856			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer 7-30-09	1315	R A Steele 7-30-09	1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-174	PAGE 2 OF 2
COLLECTOR Kauk, Rust, Rosane	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C7466; Surface	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.** PS74 HNF-N-576-3	**ACTUAL SAMPLE DEPTH** 0-1	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-173	PAGE 1 OF 2
COLLECTOR Kaun, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 Pg 74	ACTUAL SAMPLE DEPTH 0-1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE: 222S20090574

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B211Y0	SOIL	7-30-09	0830	✓	✓
S09V000866	Lo				
S09V000867	Hi				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E.S. Kaun, [signature]	7-30-09 1315	R.L. [signature]	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-173	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P **AIR QUALITY** ☐	**DATA TURNAROUND** 75 Days / 75 Days
SAMPLING LOCATION C7466; Surface-D	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-576-3 P574	**ACTUAL SAMPLE DEPTH** 0 - 1	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-181	PAGE 1 OF 1
COLLECTOR: Kauer, Rust, Rosane	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; Surface-D	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 P374	ACTUAL SAMPLE DEPTH: 0-1	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

53 12°C

SPECIAL HANDLING AND/OR STORAGE: 222S20090574

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21731	SOIL	07-30-09	0830	✓
S09V000868				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, Ed Rust	7-30-09 1315	RHRust RHSteele	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-175	PAGE 1 OF 2
COLLECTOR: Kauzl, Rust, Rosame	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; Surface-D	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS 74	ACTUAL SAMPLE DEPTH: 0-1	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A PGB 7/29/09		BILL OF LADING/AIR BILL NO.: N/A		

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

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

53 12°C

SPECIAL HANDLING AND/OR STORAGE: 222S20090574

PRESERVATION	~~Cool-4C~~/Cool-6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B215K9	SOIL	7-30-09	0830	✓
509V000869				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauzl	7-30-09 1315	R Steele	7-30-09 1315

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-175	PAGE 2 OF 2
COLLECTOR Kaush, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-115	PAGE 1 OF 2
COLLECTOR: Kruse, Rust, Rosane	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 74	ACTUAL SAMPLE DEPTH: 5' to 7'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

222S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B20XW8	SOIL	7-30-09	1000	✓	✓
S09V000879	Lo				
S09V000880	Hi				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kruse	7-30-09 1315	R Steele	7.30.09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-115	PAGE 2 OF 2
COLLECTOR KAUR, RUST, ROSANC	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. B74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 5 to 7	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-114	PAGE 1 OF 1
COLLECTOR: KAUR, RUST, ROSANE	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 78	ACTUAL SAMPLE DEPTH: 5' to 7'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

57 14°C

SPECIAL HANDLING AND/OR STORAGE: 222S20090574

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW7	SOIL	07-30-09	1000
S09V000881			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Ed Kaur, [illegible]	DATE/TIME: 7-30-09 1315	RECEIVED BY/STORED IN: [illegible]	DATE/TIME: 7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-113	PAGE 1 OF 2
COLLECTOR: KAUER, RUST, ROSANE	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 A574	ACTUAL SAMPLE DEPTH: 5-7'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

14°C

57°

SPECIAL HANDLING AND/OR STORAGE: 222S20090574

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B20XW6	SOIL	07-30-09	1000	✓
S09V000882	A			
S09V000883	B			
S09V000884	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Elkins, Eldon Elkins	7-30-09 1315	R Steele	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-113	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 5-7'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-118	PAGE 1 OF 2
COLLECTOR: Kruger, Rust, Rosawe	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS 74	ACTUAL SAMPLE DEPTH: 10'-12'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE: 222S20090574

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B20XX1	SOIL	7-30-09	1038	✓	✓
S09V000888	Lo				
S09V000889	Hi				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Ed Rust, Ed Rust	DATE/TIME: 7-30-09 1315	RECEIVED BY/STORED IN: RBSteele	DATE/TIME: 7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

☐ ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-118	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS 74 HNP-N-576-3	ACTUAL SAMPLE DEPTH 10' to 12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-117	PAGE 1 OF 1
COLLECTOR: Krusr, Rust, Rosane	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS74	ACTUAL SAMPLE DEPTH: 10' to 12'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

75 24°C

SPECIAL HANDLING AND/OR STORAGE
222520090574

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B20XX0	SOIL	7-30-09	1038	✓
S09V000890				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E Krusr / [signature]	7-30-09 1315	Rebecca Reeale	7-30-09 1315

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-116	PAGE 1 OF 2
COLLECTOR: Kauer, Rust, Rosane	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7466; I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 B74	ACTUAL SAMPLE DEPTH: 10' to 12'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

75 24°C

SPECIAL HANDLING AND/OR STORAGE: 222S20090574

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW9	SOIL	7-30-09	1038
S09V000891	(A)		

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [signature]	7-30-09 1315	[signature] RHSteele	7-30-09 1315

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

only 1 Liner Full

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-116	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS 74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-121	PAGE 1 OF 2
COLLECTOR: Kauke, Rust, Rosane	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7466; I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 74	ACTUAL SAMPLE DEPTH: 14' to 16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

222S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B20XX4	SOIL	7-30-09	1205	✓	✓
S09V000897	Lo				
S09V000898	Hi				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauke, [signature]	7-30-09 1315	[signature] RJSteele	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-121	PAGE 2 OF 2
COLLECTOR Kauer, Rust, Rosane	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P **AIR QUALITY** ☐	**DATA TURNAROUND** 75 Days / 75 Days
SAMPLING LOCATION C7466; I-003	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.** 9574 HNF-N-576-3	**ACTUAL SAMPLE DEPTH** 14' to 16'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-120	PAGE 1 OF 1
COLLECTOR: KAUSR, RUST, ROSANE	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 P94	ACTUAL SAMPLE DEPTH: 14' to 16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

68 20°C

SPECIAL HANDLING AND/OR STORAGE: 222520090574

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B20XX3	SOIL	7-30-09	1205	✓
S09V000899				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	7-30-09 1315	[illegible]	7-30-09 1315

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-119	PAGE 1 OF 2
COLLECTOR: Kauer, Rust, Rosnue	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 74	ACTUAL SAMPLE DEPTH: 14' to 16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

68°F 20°C

SPECIAL HANDLING AND/OR STORAGE
222S20090574

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B20XX2	SOIL	7-30-09	1205	✓
S09V000900	A			
S09V000901	B			
S09V000902	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer	7-30-09 1315	RHSteele	7-30-09 1315
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-119	PAGE 2 OF 2
COLLECTOR KAUER, RUST, ROSANE	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS74 HNF-N-576-3	ACTUAL SAMPLE DEPTH 14 to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-003-014	PAGE 1 OF 3

COLLECTOR KAUER	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL
PRICE CODE 7P	**DATA TURNAROUND** 75 Days / 75 Days	**AIR QUALITY** ☐	
SAMPLING LOCATION WMA-C Tank Farm -EB	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC Sampling	**SAF NO.** V09-003	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-576-3 P575	**ACTUAL SAMPLE DEPTH** N/A	**COA** 301483ES10
METHOD OF SHIPMENT GOVERNMENT VEHICLE	**SHIPPED TO** 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A	**BILL OF LADING/AIR BILL NO.** N/A

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

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

SPECIAL HANDLING AND/OR STORAGE: 222S20890573 GPB 3-12-10

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C	Cool~4C	HNO3 to pH <2	HNO3 to pH <2	Cool~4C	Cool~4C	Cool~4C	ZnAc+NaOH to pH > 9/Cool~6C	NaOH to pH >= 12/Cool~4C	None
TYPE OF CONTAINER	aGs*	aG	G/P	G	aG	aG	G/P	G/P	G/P	P
NO. OF CONTAINER(S)	3	4	1	1	3	2	1	1	1	1
VOLUME	40mL	1000mL	500mL	500mL	1000mL	1000mL	250mL	500mL	60mL	125mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	Mercury - 7470 - (CV) (TF) (Mercury)	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS	SEE ITEM (6) IN SPECIAL INSTRUCTIONS	Sulfide - 9215 (Sulfide)	Total Cyanide - 9014 (TF) (Cyanide)	pH (Water) - 9040 (TF) (pH Measurement)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YY17	WATER	8-3-09	1037	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [illegible]	8-3-09 1400	R Dodd / R Steele	8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-014	PAGE 2 OF 3
COLLECTOR KAUR	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7P	DATA TURNAROUND
SAMPLING LOCATION WMA-C Tank Farm -EB	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PG 75 HNF-N-576-3	ACTUAL SAMPLE DEPTH N/A	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine}
(3)ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc}
(4)PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260}
(5)Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Hexachlorobenzene}
(6)IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-014	PAGE 3 OF 3
COLLECTOR: KAUER	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: WMA-C Tank Farm -EB	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 (P575)	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE: 222S2009 0573

PRESERVATION	None	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2
TYPE OF CONTAINER	G/P	G/P	G/P	G/P	G/P
NO. OF CONTAINER(S)	4	1	1	1	2
VOLUME	1000mL	1000mL	1000mL	1000mL	1000mL
SAMPLE ANALYSIS	1129_SEP_GEA (TF) {Iodine-129}	SEE ITEM (7) IN SPECIAL INSTRUCTIONS	Nickel-63 (TF) {Nickel-63}	Selenium-79 (TF) {Selenium-79}	Strontium-89,90 -- Sr-90 {Strontium-90}

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B1YY17	WATER	8-3-09	1037	✓	✓	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Ed Kauer	DATE/TIME: 8-3-09 1400	RECEIVED BY/STORED IN: Allen Rietcke	DATE/TIME: 8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS: (7)Isotopic Plutonium {Plutonium-238, Plutonium-239/240}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-016	PAGE 1 OF 1
COLLECTOR: KAUER	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: WMA-C Tank Farm - TB2	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY: ☐	7S Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: KNF-N-576-3 Pg 75	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

222S200450 BDL 5-12-10 0573

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21734	WATER	8-3-09	0745	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E Kauer/Elm Sam 8-3-09	1400	R Stel R Stel 8-3-09	1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-124	PAGE 1 OF 2
COLLECTOR: Kauer, Rust, Rosane	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7466; I-004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS75	ACTUAL SAMPLE DEPTH	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

22S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B20XX7	SOIL	08-3-09	0850	✓	✓								
S09V000951	Lo												
S09V000952	Hi												

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: EL Kauer/[illegible] 8-3-09	DATE/TIME: 1400	RECEIVED BY/STORED IN: R Stecle RBSteele 8-3-09	DATE/TIME: 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-124	PAGE 2 OF 2
COLLECTOR Kauer, Rost, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. 5575 HNF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 44.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-123	PAGE 1 OF 1
COLLECTOR: Kause, Rust, Rosane	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 75	ACTUAL SAMPLE DEPTH: 43.5 to 44.5	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

222S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B20XX6	SOIL	08-03-09	0850	✓
S09V000953				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kause / [signature] 8-3-09	1400	[signature] RHSteele	8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-122	PAGE 1 OF 2
COLLECTOR: Kauer, Rust, Rosane	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7466; I-004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 75	ACTUAL SAMPLE DEPTH: 43.5- 45.5	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

222S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XX5	SOIL	8-3-09	0850
S09V000954	A		
S09V000955	B		
S09V000956	C		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [signature]	8-3-09 1400	[signature] RA Steele	8-3-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-122	PAGE 2 OF 2
COLLECTOR Knox, Rust, Rosane	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS75 HNF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 45.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-017	PAGE 1 OF 1
COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: WMA-C Tank Farm - TB3	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 76	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

14°C

58°

SPECIAL HANDLING AND/OR STORAGE: ZC090573

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21735	WATER	8-4-09	0710	✓
S09V000850				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	8-4-09/ 1500	R.L. Steele R.L. Steele	8-4-09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-127	PAGE 1 OF 2
COLLECTOR: Rosanne Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-526-3 pg 76	ACTUAL SAMPLE DEPTH: 84-86'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

S3 0 12°C

SPECIAL HANDLING AND/OR STORAGE: 222S200905T4

PRESERVATION			Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER			aGs*	aGs*	
NO. OF CONTAINER(S)			5	3	
VOLUME			40mL	40mL	
SAMPLE ANALYSIS			SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B211W5	SOIL	8-4-09	0845	✓	✓
50ml vial 960	Lo				
961	Hi				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosine Larry Rosine 8-4-09	1500	Richard Ristelle	8.4.09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

☐ ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-127	PAGE 2 OF 2
COLLECTOR Rosane Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 76	ACTUAL SAMPLE DEPTH 84'-86'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-126	PAGE 1 OF 1
COLLECTOR: Rosanne Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7466; I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 76	ACTUAL SAMPLE DEPTH: 84-86'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

58 14°C

222S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211W4	SOIL	8-4-09	0845	✓
S09VC0962				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	8-4-09 / 1500	R L Steele R L Steele	8-4-09 1500

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-125	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C7466; I-005	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 76	84-86'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

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

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

58 14°c

2225 Z0090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211W3	SOIL	8-4-09	0845	✓
S09V000 963	A			
964	B			
965	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	8-4-09 / 1500	RHSteele RHSteele	8.4.09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-125 PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P DATA TURNAROUND
SAMPLING LOCATION C7466; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐ 75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 76	ACTUAL SAMPLE DEPTH 84'-86'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A	

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-130	PAGE 1 OF 2
COLLECTOR: Kaser, Rust, Rosane	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7466; I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 (B576)	ACTUAL SAMPLE DEPTH: 109.5 to 111.5'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

68° 20°C

222S20040574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B211W8	SOIL	8-4-09	1410	✓	✓
S09V000969	Lo				
S09V000972	H.				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
S.J. Kaser / [signature]	8-4-09 1500	[signature] R.J. Steele	8.4.09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-130	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C7466; I-006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.** 15 1/NF-N-576-3	**ACTUAL SAMPLE DEPTH**	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-129	PAGE 1 OF 1
COLLECTOR: Kauke, Rust, Rosure	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 B576	ACTUAL SAMPLE DEPTH: 109.5 to 111.5	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

58 14°C

2225 20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211W7	SOIL	8-4-09	1410	✓
S09V000975				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauke, [signature]	8-4-09 1500	[signature]	8.4.09 1500

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-128	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Kauer, Rust, Rosane	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAP NO.**		
C7466; I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 B576	109.5 to 111.5	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)
58 14°C
222S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211W6	SOIL	8-4-09	14:10	✓
309U000978	A			
8/5/09 981 ~~989~~	B			
984	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [illegible]	8-4-09 1500	[illegible]	8-4-09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-128	PAGE 2 OF 2
COLLECTOR Kruse, Rust, Rosane	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C7466; I-006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.** P576 HNF-N-576-3	**ACTUAL SAMPLE DEPTH** 109.5 to 111.5	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-018	PAGE 1 OF 1
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: WMA-C Tank Farm - TB4	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg77	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)
222S20090573
50 10°C

SPECIAL HANDLING AND/OR STORAGE: 20090573 RHH

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21736	WATER	8-5-09	0730	✓
509 VOO 851				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	8-5-09/1500	RH Steele RH Steele	8-5-09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-133	PAGE 1 OF 2
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 77	ACTUAL SAMPLE DEPTH: 114'-116'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

12°C 53

222S2009 0574

SPECIAL HANDLING AND/OR STORAGE: 34°

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B211X1	SOIL	8-5-09	0945	✓	✓
S09V000 970					
S09V000 973					

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	8-5-09/ 1500	[illegible] RTP/CCC/E	8-5-09 1500

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-133	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 77	ACTUAL SAMPLE DEPTH 114' - 116'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-132	PAGE 1 OF 1
COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 77	ACTUAL SAMPLE DEPTH: 114'-116'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

50 10°C

SPECIAL HANDLING AND/OR STORAGE: 222SZC090574

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211X0	SOIL	8-5-09	0945	✓
S09V000976				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	8-5-09 / 1500	R L Steele R L Steele	8-5-09 1500

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A. ** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-131	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; I-007	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg77	114'-116'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

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

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

50
10°C
2222C090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211W9	SOIL	8-5-09	0945	✓
SOIV000 979				
982				
985				

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	8-5-09/ 1500	RHSteele RHSteele	8.5.09 1500

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-131	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7466; I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 77	ACTUAL SAMPLE DEPTH 114'-116'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-136	PAGE 1 OF 2
COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7466; I-008	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 77	ACTUAL SAMPLE DEPTH: 133'-135'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

53° 12°C

SPECIAL HANDLING AND/OR STORAGE: 22252C090574

PRESERVATION			Cool <-7C and >-20C	MEOH/Cool-6 C	
TYPE OF CONTAINER			aGs*	aGs*	
NO. OF CONTAINER(S)			5	3	
VOLUME			40mL	40mL	
SAMPLE ANALYSIS			SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B211X4	SOIL	8-5-09	1352	✓	✓
509V000971					
509V000974					

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Rosane Rust	8-5-09 1500	R Risteele	8-5-09 1500

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-136	PAGE 2 OF 2
COLLECTOR Rosane Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 77	ACTUAL SAMPLE DEPTH 133'-135'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-135	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7466; I-008	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF+N-576-3 pg77	133'-135'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

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

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

50 10°C

SPECIAL HANDLING AND/OR STORAGE
22252000 574

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211X3	SOIL	8-5-09	1352	✓
S09V000 977				

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	8-5-09 1500	RSteele RSteele	8-5-09 1500

SPECIAL INSTRUCTIONS
** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-134	PAGE 1 OF 2
COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 7S Days / 75 Days
SAMPLING LOCATION: C7466; I-008	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 A77	ACTUAL SAMPLE DEPTH: 133'-135'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

50° 10°C

222S20090574

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211X2	SOIL	8-5-09	1352	✓
509V000980	A			
509V000983	B			
509V000986	C			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	8-5-09/ 1500	RtSteele RtSteele	8-5-09 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-134	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7466; I-008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-W-576-3 pg 77	ACTUAL SAMPLE DEPTH 133'-135'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-019	PAGE 1 OF 1
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7P	DATA TURNAROUND
SAMPLING LOCATION WMA-C Tank Farm - TB5	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pT8	ACTUAL SAMPLE DEPTH N/A	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

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

31° -1°C

SPECIAL HANDLING AND/OR STORAGE
222S20090609

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21737	WATER	8-10-09	10:00	✓
20090609				
509V001043				

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [illegible]	8-10-09 1330	[illegible]	8.10.09 1330

SPECIAL INSTRUCTIONS
(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

A-6003-618(01/06)

A-6003-518(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-171	PAGE 1 OF 2
COLLECTOR KAUFF, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. P578 HNFN-57L-3	ACTUAL SAMPLE DEPTH 0-1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

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

14° -10°C

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B21221	SOIL	8-10-09	1045	✓	✓
S09V00W1048					
S09V00Ø 1049					
DRR 5-5-10					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
EKRUSE, EKRUSE	8-10-09 1330	RHSteele RHSteele	8-10-09 1330
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-518(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-171	PAGE 2 OF 2
COLLECTOR Kauer Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS 78 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-170	PAGE 1 OF 1
COLLECTOR: Kauk, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; Surface	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HWF-N-576-3 Pg 75	ACTUAL SAMPLE DEPTH: 0-1'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

31° -1°C

SPECIAL HANDLING AND/OR STORAGE: 222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21220	SOIL	8-10-09	1045
S09V000 1050			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauk	8-10-09 1330	Pikstel 21Steele	8.10.09 1330

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-176	PAGE 1 OF 2
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7468; Surface	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS78	ACTUAL SAMPLE DEPTH: 0-1'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A PCB 7/21/09		BILL OF LADING/AIR BILL NO.: N/A		

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

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

31° -1°C

SPECIAL HANDLING AND/OR STORAGE: 222S20090607

PRESERVATION	~~Cool~~ 4C/Cool~ 6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B215L0	SOIL	8-10-09	1045
~~S09V001051~~	OPR 5-5-10		
S09V001051			

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Ed Kauer, [signature]	8-10-09 1330	RECEIVED BY/STORED IN: [signature]	8-10-09 1730
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-176	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. 5578 HNF W-576-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-172	PAGE 1 OF 2
COLLECTOR: Kaw & Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7468; Surface-D	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 78	ACTUAL SAMPLE DEPTH: 0-1'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

14° -10°C

SPECIAL HANDLING AND/OR STORAGE: 222S2000607

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B21222	SOIL	8-10-09	1045	✓	✓
S09V001069					
S09V001070					

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Elkins, Ed	8-10-09 1330	RAS/Steele	8-10-09 1330

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-172	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS 78 HNF-N-57L-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-182	PAGE 1 OF 1
COLLECTOR KAUSR, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 [redacted]
SAMPLING LOCATION C7468; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. PS78 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

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

31° -1°C

SPECIAL HANDLING AND/OR STORAGE
222S TW90607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21732	SOIL	8-10-09	1045
S09V001071			

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E KAUSR, [illegible]	8-10-09 1330	R Steele R/Steele	8.10.09 1330

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-177	PAGE 1 OF 2
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7468; Surface-D	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS 78	ACTUAL SAMPLE DEPTH: 0-1'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

310 -1°C

SPECIAL HANDLING AND/OR STORAGE: 222SZC090607

PRESERVATION	PCB 7/29/09 ~~Cool 4C/Cool~~ 6C
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	2
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B215L1	SOIL	8-10-09	1045
5091001052			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E Kauer	8-10-09 1330	R Rust / R/S Lee/C	8-10-09 1330

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-177	PAGE 2 OF 2
COLLECTOR Kasch, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; Surface-D	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P578 HNF-N-576-3	ACTUAL SAMPLE DEPTH 0-1'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-020	PAGE 1 OF 1
COLLECTOR KAUSR, RUSF	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7P	DATA TURNAROUND
SAMPLING LOCATION WMA-C Tank Farm - TB6	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS 29 HNF-N-576-3	ACTUAL SAMPLE DEPTH N/A	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

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

8.9°C 4°

SPECIAL HANDLING AND/OR STORAGE

22252C090609

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	8Gs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21738	WATER	8-11-09	0710	✓
S09V00 1044				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kaus, Ed Kaus	8-11-09 1240	RAStEele RASteele	8.11.09 1240

SPECIAL INSTRUCTIONS
(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-145	PAGE 1 OF 2
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 (5579)	ACTUAL SAMPLE DEPTH: 5' to 7'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

-2°C 29

SPECIAL HANDLING AND/OR STORAGE: 222S20090607

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B211Y5	SOIL	08-11-09	0840	✓	✓
S09V001074	(Lo)				
1077	(Hi)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Kauer/Steele	DATE/TIME: 8-11-09 1240	RECEIVED BY/STORED IN: RtSteele	DATE/TIME: 8.11.09 1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-145	PAGE 2 OF 2
COLLECTOR KAUER, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PE79 HNF-N-5763	ACTUAL SAMPLE DEPTH 5' to 7'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-144	PAGE 1 OF 1
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 79	ACTUAL SAMPLE DEPTH: 5' to 7'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

T°C 48

SPECIAL HANDLING AND/OR STORAGE: 222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B211Y4	SOIL	08-11-09	08:40
509V00180			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible] 8-11-09	1240	RJSteele	8.11.09 1246
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A. ** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

D ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-143	PAGE 1 OF 2
COLLECTOR Kauck Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 75 HNF-N-576-3	ACTUAL SAMPLE DEPTH 5' to 7'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

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

48° 9°C

SPECIAL HANDLING AND/OR STORAGE
22252009 0607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B211Y3 1083	SOIL	08-11-09	0840
SO9Wa ~~1083~~	A	BAR 8/13/09	
1084	B		
1085	C		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauck/[illegible]	8-11-09 1240	RHTab RASteele	8.11.09 1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-143	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P575 HNFN-576-3	ACTUAL SAMPLE DEPTH 5'to 7'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-148	PAGE 1 OF 2
COLLECTOR: KAUCR, RUST	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 79	ACTUAL SAMPLE DEPTH: 10' to 12'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

29' -2°C

SPECIAL HANDLING AND/OR STORAGE: 22DS20090607

PRESERVATION		Cool <-7C and >-20C	MEOH/Cool~6 C		
TYPE OF CONTAINER		aGs*	aGs*		
NO. OF CONTAINER(S)		5	3		
VOLUME		40mL	40mL		
SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS		
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B211Y8	SOIL	08-11-09	0910	✓	✓
S09V001075	Lo				
↓ 1078	Hc				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kaucr/Ed Rust	8-11-09 1240	RS/EE/C	8.11.09 1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-148	PAGE 2 OF 2
COLLECTOR KAUER, RUST	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C7468; I-002	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-576-3 P579	**ACTUAL SAMPLE DEPTH** 10'-12'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-147	PAGE 1 OF 1
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7468; I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 P379	ACTUAL SAMPLE DEPTH: 10-12'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

48° 9°C

SPECIAL HANDLING AND/OR STORAGE: 22252009060 7

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B211Y7	SOIL	08-11-09	0910
509V00 1081			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [signature]	8-11-09 1240	R R Steele / R R Steele	8.11.09 1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-146	PAGE 1 OF 2
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS79	ACTUAL SAMPLE DEPTH: 10 to 12'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

9°C 48

SPECIAL HANDLING AND/OR STORAGE: 222S2W90607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~2~~ 2
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B211Y6	SOIL	8-11-09	0910	✓
SOATW 1086				
↓ 1087				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/[illegible]	8-11-09 1240	[illegible]	8-11-09 1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

Only 2 Liners Full
1 Liner Empty

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-146	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P579 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10' to 12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-151	PAGE 1 OF 2
COLLECTOR: Kauer Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS75	ACTUAL SAMPLE DEPTH: 14' to 16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

29° -2°C

SPECIAL HANDLING AND/OR STORAGE: 2225 20090607

PRESERVATION			Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER			aGs*	aGs*	
NO. OF CONTAINER(S)			5	3	
VOLUME			40mL	40mL	
SAMPLE ANALYSIS			SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B21201	SOIL	08-11-09	0945	✓	✓
509V00 1076	Lo				
↓ 1079	Hi				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / Edward Kauer	8-11-09 1240	R Fitch RJS/Cole	8-11-09 1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

☐ ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-151	PAGE 2 OF 2
COLLECTOR Hauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 PSX	ACTUAL SAMPLE DEPTH 14 to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-150	PAGE 1 OF 1
COLLECTOR: KAUR, RUST	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS76	ACTUAL SAMPLE DEPTH: 14' to 16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

9°C 48

SPECIAL HANDLING AND/OR STORAGE: 222S2009060 7

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B21200	SOIL	08-11-09	0545	✓
S09V001082				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/	8-11-09 1240	RBSteele	8-11-09 1240

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-149	PAGE 1 OF 2
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 P575	ACTUAL SAMPLE DEPTH: 14' to 16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

48° 9°C

SPECIAL HANDLING AND/OR STORAGE

22252C090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B211Y9	SOIL	08-11-05	0945
S09V00 1089			
1090			
1091			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer [signature] 8-11-05	1240	[signature] 8-11-05	1240

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-149	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 P57	ACTUAL SAMPLE DEPTH 14 to 16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-021	PAGE 1 OF 1
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: WMA-C Tank Farm - TB7	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 80	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

-2°C

SPECIAL HANDLING AND/OR STORAGE: 222S2000C09

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21739	WATER	8-12-09	07:00
509U00 ~~1179~~ 1045 DPR 5-5-10			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [signature]	8-12-09 1100	RD Rust / RJ Slade	8-12-09 1100

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-154	PAGE 1 OF 2
COLLECTOR: KAUZ, RUST	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3	ACTUAL SAMPLE DEPTH: 43.5 to 45.5	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

24° -4°C

SPECIAL HANDLING AND/OR STORAGE: 2225Z0090607

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B21204	SOIL	8-12-09	0840	✓	✓
S09V001119	LO				
↓ 1123	H.				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E.L. Kauz	8-12-09 1100	R.T. Steele	8.12.09 1100

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-154	PAGE 2 OF 2
COLLECTOR Kauer, Rost	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P580 HWF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 45.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-153	PAGE 1 OF 1
COLLECTOR KAUSE, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3	Pg 80 ACTUAL SAMPLE DEPTH 43.5 to 45.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

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

28° -2°C

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21203	SOIL	8-12-09	0840
S09V001127			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kouse / [illegible]	8-12-09 1100	RtSteele RtSteele	8.12.09 1100

SPECIAL INSTRUCTIONS
** All VOA samples will be collected using EPA Method 5035A. *
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-152	PAGE 1 OF 2
COLLECTOR Kaus, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 80 HNF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 45.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

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

28° -2°C

SPECIAL HANDLING AND/OR STORAGE
222S200A0607

PRESERVATION	Cool-6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21202	SOIL	8-12-09	0840
S09V001131			
1135			
1139			

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kaus/	8-12-09 1100	R K Steele	8.12.09 1100

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-152	PAGE 2 OF 2
COLLECTOR KANGE, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7468; I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 80 HNF-N-576-3	ACTUAL SAMPLE DEPTH 43.5 to 45.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-022	PAGE 1 OF 1
COLLECTOR KAUER, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7P	DATA TURNAROUND
SAMPLING LOCATION WMA-C Tank Farm - TB8	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. 15811 HNF-N-576-3	ACTUAL SAMPLE DEPTH	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

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

10V

SPECIAL HANDLING AND/OR STORAGE
222S20090609

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21740	WATER	8-13-05	0630
S09V001046			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/	8-13-05 1400	RtSteele	8.13.05 1400

SPECIAL INSTRUCTIONS
(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-157	PAGE 1 OF 2
COLLECTOR: Kanar, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7468; I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-526-3 9481	ACTUAL SAMPLE DEPTH: 92' to 94'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

22 -5°C

SPECIAL HANDLING AND/OR STORAGE: 222S20090607

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B21207	SOIL	8-13-09	0845	✓	✓
S09V001120					
S09V001124					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kanar / [illegible]	8-13-09 1400	[illegible] RASteele	8-13-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

☐ ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-155	PAGE 2 OF 2
COLLECTOR KAUSE, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS81 HNF-N-576-3	ACTUAL SAMPLE DEPTH 92 to 94	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-156	PAGE 1 OF 1
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PG 81	ACTUAL SAMPLE DEPTH: 92 to 94'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

33 1°C

SPECIAL HANDLING AND/OR STORAGE: 222SC090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	8Gs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21206	SOIL	8-13-09	0845
S0960011128			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer	8-13-09 1400	R Stefanic	8.13.09 1460

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-155	PAGE 1 OF 2
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7468; I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3	ACTUAL SAMPLE DEPTH: 92 to 94'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

33 · 1°C

SPECIAL HANDLING AND/OR STORAGE
22252000607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21205	SOIL	8-13-09	0841
S09V00 1132			
1136			
1140			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Erkinen/Erkinen	DATE/TIME: 8-13-09 1400	RECEIVED BY/STORED IN: R Steele	DATE/TIME: 8-13-09 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-157	PAGE 2 OF 2
COLLECTOR Kansl Rost	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PSI HNF-N-5763	ACTUAL SAMPLE DEPTH 92' to 94'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-160	PAGE 1 OF 2
COLLECTOR: KAUER, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 5381	ACTUAL SAMPLE DEPTH: 97' to 99'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

32° -6°C

SPECIAL HANDLING AND/OR STORAGE
2225 20090607

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B21210	SOIL	8-13-09	1120	✓	✓
509V00 1121					
↓ 1125					

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/Ed Kauer	8-13-09 1400	RJS/Cole	8-13-09 1400

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-160	PAGE 2 OF 2
COLLECTOR KAUER, Rust	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C7468; I-006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.** 1581 HNF-N-576-3	**ACTUAL SAMPLE DEPTH** 97 to 99'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-159	PAGE 1 OF 1
COLLECTOR: KAUER, RUST	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg	ACTUAL SAMPLE DEPTH: 97' to 99'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

33 x10C

SPECIAL HANDLING AND/OR STORAGE

222S2009060 7

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21209	SOIL	8-13-09	1120
509V00 1129			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/Ed Kauer	8-13-09 1400	RHSteele RHSteele	8-13-09 1400

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-158	PAGE 1 OF 2
COLLECTOR: KAUSR, RUST	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 P581	ACTUAL SAMPLE DEPTH: 97 to 99'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

33° 1°C

SPECIAL HANDLING AND/OR STORAGE: 222S Z0090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21208	SOIL	8-13-09	1120
509VOC			1133
			1137
			1141

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauser	8-13-09 1400	RHRstcle	8.13.09 1400

SPECIAL INSTRUCTIONS: SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-158	PAGE 2 OF 2
COLLECTOR Kauer, Rust	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C7468; I-006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-576-3 P581	**ACTUAL SAMPLE DEPTH** 97' to 99'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-023	PAGE 1 OF 1
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: WMA-C Tank Farm - TB9	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 (8582)	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

43° 6 OV

SPECIAL HANDLING AND/OR STORAGE: 2225ZW90609

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	✓
B21741	WATER	8-17-05	0930	✓
S09V00047				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, Robert Rust	8-17-05 1430	R Stella	8-17-05 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-163	PAGE 1 OF 2
COLLECTOR: Kamer Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7468; I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 p982	ACTUAL SAMPLE DEPTH: 125'-127'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

18°/43° -9°C/6°C

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B21213	SOIL	8-17-09	1000	✓	✓	
S09V001122						
1126						

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	8-17-09 1430	[signature] R S Leek	8-17-09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-163	PAGE 2 OF 2
COLLECTOR Kauer Rust	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C7468; I-007	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-576-3 pg82	**ACTUAL SAMPLE DEPTH** 125'-127'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

☐ ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-162	PAGE 1 OF 1
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 p982	ACTUAL SAMPLE DEPTH: 125'-127'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

43° 6°C

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21212	SOIL	8-17-09	1000
S09V00 1130			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: EdKauer	DATE/TIME: 8-17-05 1430	RECEIVED BY/STORED IN: RKRust	DATE/TIME: 8.17.05 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-161	PAGE 1 OF 2
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7468; I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg82	ACTUAL SAMPLE DEPTH: 125' - 127'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

43° 6°C

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21211	SOIL	8-17-09	1000
S09U001134	A		
1138	B		
1142			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Ed Kauer	DATE/TIME: 8-17-09 1430	RECEIVED BY/STORED IN: RKSteele	DATE/TIME: 8.17.09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-161	PAGE 2 OF 2
COLLECTOR Kauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 82	ACTUAL SAMPLE DEPTH 125'-127'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		V09-002-166	PAGE 1 OF 2
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P; DATA TURNAROUND
SAMPLING LOCATION: C7468; I-008	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐; 75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 82	ACTUAL SAMPLE DEPTH: 135' to 137'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A	

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

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

43/18 6°C/ice

SPECIAL HANDLING AND/OR STORAGE

2225Z009607

PRESERVATION				Cool <-7C and >-20C	MEOH/Cool~6 C									
TYPE OF CONTAINER				aGs*	aGs*									
NO. OF CONTAINER(S)				5	3									
VOLUME				40mL	40mL									
SAMPLE ANALYSIS				SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS									
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME											
B21216	SOIL	8-17-09	1355	✓	✓									
509V00 1212														
1213														

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [signature]	8-17-09 1430	R H Steele	8-17-09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-166	PAGE 2 OF 2
COLLECTOR KAUER, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 82 HNF-N-576-3	ACTUAL SAMPLE DEPTH 135 to 137	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-165	PAGE 1 OF 1
COLLECTOR: KAUER, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-008	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3	ACTUAL SAMPLE DEPTH: 135' to 137'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

47° LOU

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21215	SOIL	8-17-09	1355 ✓
S09V00 1214			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, Edward Kauer	8-17-09 1430	Robert Rastede	8.17.09 1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
(1)VOA - 5035/8260 (TCL) (TF) {1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

☐ ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-164	PAGE 1 OF 2
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7468; I-008	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 P582	ACTUAL SAMPLE DEPTH: 135 to 137	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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

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

43 °C

SPECIAL HANDLING AND/OR STORAGE
222S20090607

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B21214	SOIL	8-17-09	1355 ✓
S09V001215			
1216			
1217			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/ 8-17-09	1430	R Keele 8-17-09	1430
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-164	PAGE 2 OF 2
COLLECTOR KAUER, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7468; I-008	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P582 HNF-N-576-3	ACTUAL SAMPLE DEPTH 135 to 137'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Appendix A

GEOLOGIC REPORT

Table A-1: GEOLOGIC DESCRIPTION OF C-FARM SAMPLES
Described during sample breakdown by Gary A. Cooke, WA State Professional Geologist, #2785.

Sample ID	Date Examined	Description
B215K8 Jar 1 & 2 (surface)	08-03-09	Slightly gravelly sand (g)S, poorly sorted, color: 2.5Y5/3, dry, slight acid reactivity, largest gravels are a mix of quartz and basalt, sub-angular to sub-rounded, sand is coarse to medium grained, very few clasts, break up easily, largest particle ~11mm, only a portion of jar 1 was poured out and examined. Jar 2 opened and appears similar. 6mm particles will be separated on sub-sampling if found. Estimated Soil Density: NA
B215K9 Jar 1 & 2 (surface)	08-03-09	Slightly gravelly sand (g)S, poorly sorted. Color: 2.5Y5/3, dry slight acid reactivity, coarser than previous sample, clasts are absent. Largest particle 23mm long. Largest gravel is angular to sub-rounded, mix of quartz and basalt. Excluded 4 pieces from soil described. Will also exclude >6mm on sub-sampling. Estimated Soil Density: NA.
B20XW6 Core A	08-03-09	Fine sandy gravel sG, poorly sorted. Color: 2.5Y4/2, slightly moist, slight acid reactivity. Largest particles about 5mm sub-round to sub-angular. Gravel mix of quartz and basalt. Tube full. Estimated Soil Density: 2.030 g/mL.
B20XW6 Core B	08-03-09	Sandy gravel sG, poorly sorted. Color: 2.5Y3/2, slightly moist, slight acid reactivity. Largest particle 12 mm excluded 3 particles sub-round to sub-angular. More basalt in gravel then previous sample. 1mm gap on top bottom full. Estimated Soil Density: Could not estimate.
B20XW6 Core C	08-03-09	Slightly gravelly sand (g)S, poorly sorted, color: 2.5Y4/2, very slightly moist, slight acid reactivity, coarser material rounded to sub-rounded, trace mica, all basalt on coarse material, largest particle 8mm, tube is half full. Slid out of tube easily with large clasts that break up easily. Estimated Soil Density: Could not estimate .
B20XW9 Core A	08-03-09	Sandy gravel sG, poorly sorted, color: 2.5Y4/3 but mottled, slightly moist, slight acid reactivity, sub-angular to sub-round gravel, some mica, gravel is basalt and quartz, largest particle 19mm long (excluded). Top has a gap ~12mm long. Full at bottom, pours out easily, clasts break up easily. Estimated Soil Density: 1.730 g/mL.
B20XX2 Core A	08-03-09	Sand, S, medium grained moderately well sorted sand, color: 2.5Y5/3, slight acid reactivity, tube full. Soil Density: Could not estimate .
B20XX2 Core B	08-03-09	Gravelly coarse sand gS, poorly sorted, color: 2.5Y4/2 Dominant color, mottled appearance, slightly moist, slight acid reactivity, largest particles 20mm, 8mm (excluded), sub-rounded to sub angular gravel. Trace mica, basalt and quartz fragments. Large gap on top, irregular 30mm missing, sample pours out easily. Estimated Soil Density: Could not estimate.
B20XX2 Core C	08-03-09	Gravelly sand gS, poorly sorted, color: mottled dominant 2.5Y4/2, very slightly moist, slight acid reactivity, largest particle 22mm (excluded), Gravel is sub-angular to sub-rounded, basalt and quartz fragments. Tube is ~half full, pours out easily. Estimated Soil Density: Could not estimate.

Sample ID	Date Examined	Description
B20XX5 Core A	08-05-09	Slightly gravelly sand (g)S, fine grained layer is uniform mud (m) color:2.5Y4/3, slight acid reactivity, sand slightly moist, mud moist, approximately 20mm gap at bottom, top is full. Bottom moist fine grained, top is coarser and dryer. Removed materials from bottom, fine grained for first 90mm, largest particle 3mm, mud is slightly cohesive with some clay. Estimated Soil Density: Could not estimate.
B20XX5 Core B	08-05-09	Slightly gravelly sand (g)S, color:2.5Y6/2, slightly moist, very slight acid reactivity, fine gravel largest particle 3mm, angular to sub-angular, some iron stained grains, salt and pepper texture quartz and basalt in larger fragments, trace mica. Tube full. Estimated Soil Density: 1.952 g/mL.
B20XX5 Core C	08-05-09	Slightly gravelly sand (g)S, coarse sand with fine gravel, color:2.5Y5/2, slightly moist, slight acid reactivity, Largest particle 3mm, salt and pepper texture, angular to sub-angular, quartz to basalt, trace mica. All samples extruded easily when dug with screw driver. Tube full. Estimated Soil Density: 2.026 g/mL.
B211W3 Core A	08-05-09	Sand S, poorly sorted, color: 2.5Y6/3, slightly moist, slight to moderate acid reactivity, medium grained, little or no silt or gravel, salt and pepper texture quartz and basalt. Some iron stained fragments, trace mica. Tube full. Estimated Soil Density: 1.953 g/mL.
B211W3 Core B	08-05-09	Sand S, medium to fine grained, color: 2.5Y5/3, very slightly moist. Slight to moderate acis reactivity, no gravel, little silt. Quartz and basalt angular to sub-angular, trace mica. Tube full. Estimated Soil Density: 1.928 g/mL.
B211W3 Core C	08-05-09	Medium sand S, poorly sorted, very slightly moist, slight acid reactivity, no gravel, trace mud, trace mica some whitish aggregate, easily broken, Caliche? Trace small plant fragments, largest grain 2mm, mix of quartz, basalt and iron stained. Angular to sub-angular. 8mm gap on top, top has skim layer of mud, bottom full. Estimated Soil Density: Could not estimate.
B211W6 Core A	08-05-09	Slightly gravelly sand (g)S, color: 2.5Y5/3, very slightly moist, slight to moderate acid reactivity, medium sand and fine gravel. Largest particle 4mm, angular to sub-angular, quartz and basalt, trace mica trace silt. Tube full. Estimated Soil Density: 2.095 g/mL.
B211W6 Core B	08-05-09	Sand S, poorly sorted, color: 2.5Y6/3, Very slightly moist nearly dry, slight to moderate acid reactivity, trace silt no gravel, largest particle 2mm, angular to sub-angular, quartz, basalt iron stained. Trace mica. Concaved depression on bottom 2mm deep. Sample extruded easily, pouring near end. Estimated Soil Density: Could not estimate.
B211W6 Core C	08-05-09	Sand S, poorly sorted, color: 2.5Y6/3, Very slightly moist, slight to moderate acid reactivity, trace silt no gravel, largest particle 2mm, angular to sub-angular, quartz, basalt iron stained fragments. Trace mica. Tube full. Estimated Soil Density: 1.993 g/mL.
B211W9 Core A	08-10-09	Slightly muddy sand (m)S, poorly sorted, color:2.5Y 5/3, slightly moist, moderate acid reactivity, medium to coarse sand with silt. Largest grain 2mm, salt and pepper texture, trace mica, angular to sub-angular grains. Screwdriver sinks easily into sediment during removal. Tube full. Estimated Soil Density: 1.890 g/mL.

Sample ID	Date Examined	Description
B211W9 Core B	08-10-09	Sand S, poorly sorted, color: 2.5Y6/3, very slightly moist, moderate acid reactivity, medium to coarse sand very little silt or gravel. Largest particle 8mm across, salt and pepper texture, trace mica, angular to sub-angular quartz and basalt fragments. Tube was easy to extract occasional clasts break up easily. Tube full. Estimated Soil Density: 1.912 g/mL.
B211W9 Core C	08-10-09	Sand S, poorly sorted, color: 2.5Y6/3, very slightly moist, slight to moderate acid reactivity, medium to coarse grain, 1 or 2 fragments of gravel largest particle 4mm. Trace mica, salt and pepper texture, mix of basalt and quartz grains. Tube full. Estimated Soil Density: 1.868 g/mL.
B211X2 Core A	08-10-09	Gravelly sand gS, poorly sorted, color: 2.5Y6/2, very slightly moist, slight to moderate acid reactivity, little or no silt, medium to coarse sand with gravel. Largest particle 14mm (excluded). Gravel angular to sub- rounded. Coarse sand angular to sub- angular. Excluded three (3) basalt rock fragments. Tube full. Estimated Soil Density: 1.992 g/mL.
B211X2 Core B	08-10-09	Gravelly sand gS, poorly sorted, color: 2.5Y6/2, very slightly moist, slight to moderate acid reactivity, little or no silt, medium to coarse sand with gravel. Largest particle 15mm (excluded). Gravel sub-rounded to rounded for the largest piece grading down to sub-angular to sub-rounded in the coarse sand. Mix of basalt and quartz, coarsest gravel is basalt. Tube full. Estimated Soil Density: 1.956 g/mL.
B211X2 Core C	08-10-09	Slightly gravelly, very slightly sandy mud (gs)M. Color 2.5Y7/2, dry, moderate to heavy acid reactivity, fine gray silt with occasional gravel. Largest 22mm (excluded), the rest <8mm. Trace mica, sub-rounded to sub-angular rock fragments. Some small white grains up to 2mm –Caliche? Sample slides freely from tube. Tube full. Estimated Soil Density: 1.643 g/mL.
B215L0 Jar 1 & 2 (surface)	08-12-09	Slightly gravelly sand (g)S, poorly sorted, color: 2.5Y 6/3, Dry, moderate acid reactivity, medium sand angular to sub-rounded grains, some clasts break easily, iron cemented are tougher and there are several on sample. Largest particle 16mm is an iron cemented aggregate. Breaks with moderate pressure not excluded. Some caliche fragments white. Estimated Soil Density: NA.
B215L1 Jar 1 & 2 (surface)	08-12-09	Slightly gravelly sand (g)S, poorly sorted, color:2.5Y 6/3, Dry, moderate acid reactivity, medium sand angular to sub-rounded, trace mica. Largest particle 12mm, gravel is a mix of basalt and iron cemented aggregates and white feldspathic fragments. Fewer small white caliche fragments, fewer iron cemented clasts. Estimated Soil Density: NA.
B211Y3 Core A	08-12-09	Slightly gravelly slightly muddy sand (gm)S, poorly sorted sand grading to silt. Color: 2.5Y5/2, slightly moist, slight to moderate acid reactivity, largest particle 24mm basalt fragment (excluded), sub-angular to rounded, mostly basalt. Trace mica. Top and bottom full. Estimated Soil Density: 2.057 g/mL.

Sample ID	Date Examined	Description
B211Y3 Core B	08-12-09	Slightly gravelly sand (g)S, color: 2.5Y5/2, slightly moist, slight to moderate acid reactivity, mostly basalt fragment, sub-angular to rounded, largest particle 8mm, Trace mica. Material slid out somewhat easily, remainder easy to dig out. Tube full. Estimated Soil Density: 2.088 g/mL.
B211Y3 Core C	08-12-09	Slightly gravelly sand (g)S, poorly sorted sand mostly coarse, angular to sub-rounded sand color: 2.5Y4/2, color Silt:2.5Y5/3. slightly moist, slight to moderate acid reactivity, largest particle13mm (excluded) largely basalt fragments. Sample pours out easily, silty lens at top. Silt at top is 40mm thick. Breaks up easily little or no clay or sand in the lens. Layers homogenized. Concave depression on top 3mm deep, 1mm depression on bottom. Estimated Soil Density: Could not estimate.
B211Y6 Core A	08-12-09	Gravelly sand gS, coarse sand grading to gravel. Dominant color: 2.5Y4/2, slightly moist, very slight acid reactivity, largest fragment 20mm (excluded) numerous fragments around 4mm. Basalt and quartz, sub-angular to sub-rounded, trace mica, salt and pepper texture, material slides out easily. Tube full. Estimated Soil Density: 2.083 g/mL.
B211Y6 Core B	08-12-09	Gravelly sand gS, rest is coarse sand with fine gravel. Dominant color: 2.5Y4/2, Slightly moist, slight acid reactivity, basalt and quartz fragments, sub-angular to sub-rounded, trace mica, salt and pepper texture. Largest fragment 22mm quarts (excluded). Sample pours out easily. Approximately 1mm gap on top, bottom full. Estimated Soil Density: Could not estimate.
B211Y9 Core A	08-12-09	Dark medium to coarse sand S, moderately well sorted, dominant color: 2.5Y3/1, very slightly moist, slight acid reactivity, very little gravel. Largest particle 14mm not excluded, distinct salt and pepper texture, trace mica, angular to sub-angular. Sample slides out easily when side of tube is rapped. Tube full. Estimated Soil Density: 1.671 g/mL.
B211Y9 Core B	08-12-09	Gravelly sand gS, poorly sorted, color: 2.5Y4/1, very slightly moist, very slight acid reactivity, coarse gravel to medium sand, sub-angular to sub-rounded, basalt makes largest fragments. Largest fragment 25mm, 4 fragments (excluded). Salt and pepper texture, quartz and basalt. Tube is slightly overfilled with large rock fragment on top, protruding ~ 2mm. Sample more difficult to extract, 2nd large fragment mid-way in tube. 3rd large fragment near bottom. Estimated Soil Density: Could not estimate.
B211Y9 Core C	08-12-09	Gravelly sand gS, poorly sorted, dominant color: 2.5Y4/2, very slightly moist, very slight acid reactivity, medium sand to coarse gravel, angular to sub-rounded. Trace mica, salt and pepper texture quartz and basalt fragments. Largest fragment 25mm, 5 fragments (excluded), all basalt. 6th fragment is of chert 20mm long also (excluded). Sample pours from tube. Tube full. Estimated Soil Density: 1.678 g/mL.

Sample ID	Date Examined	Description
B21202 Core A	08-14-09	Top ⅔ of tube is fine-grained mud M. Bottom ⅓ is a gravelly sand (g)S, poorly sorted, color: 2.5Y5/3, slightly moist, slight to moderate acid reactivity, sub-angular to sub-rounded, mix of basalt and quartz. Trace mica, largest fragment about 4mm. Feel grit about ½ way down the tube. Clasts break up easily, very slightly cohesive. Tube full. Estimated Soil Density: 2.303 g/mL.
B21202 Core B	08-14-09	Top ⅓ is a sand S, bottom ⅔ is mud M, well sorted, sand color: 2.5Y5/2, mud color: 2.5Y5/3, slightly moist, moderate acid reactivity, clasts of mud are slightly cohesive, but break easily. Sand is uniform medium grained. Quartz and basalt grains, angular to sub-angular. Salt and pepper texture. Tube full. Estimated Soil Density: 2.124 g/mL.
B21202 Core C	08-14-09	Slightly muddy sand (m)S, well sorted, color:2.5Y6/2 dominant color. very slightly moist, very slight acid reactivity, Medium to coarse sand, no gravel, trace mica salt and pepper texture, quartz and basalt grains angular to sub-angular. Bottom has irregular depression, average 1mm deep. Sand extracts easily, mixed layer of mud and gravel extract less easily, especially the gravel. Estimated Soil Density: Could not estimate.
B21205 Core A	08-14-09	Muddy sand mS, fairly well sorted, color 2.5Y6/3, slightly moist, moderate acid reactivity, coarsest grains angular to sub-angular, fine sand with silt, trace mica. Tube full. Estimated Soil Density: 1.887 g/mL.
B21205 Core B	08-14-09	Slightly gravelly sand (g)S, somewhat well sorted sand (coarse) dominant color:2.5Y6/1, very slightly moist, slight to moderate acid reactivity, angular to sub-round basalt and quartz fragments. Trace mica, 5mm largest fragment. Tube full. Estimated Soil Density: 2.011 g/mL.
B21205 Core C	08-14-09	Slightly muddy sand (m)S, poorly sorted. Color:2.5Y 5/2, slightly moist, slight to moderate acid reactivity, medium to coarse sand trace gravel, quartz and basalt fragments, largest fragment ~ 5mm, angular to sub-round, mud clasts break up easily, trace mica, thin approximately ~ 3mm thick silt layer on top. Slight concave depression in the bottom ~ 1mm average depth. Tube nearly full. Estimated Soil Density: Could not estimate.
B21208 Core A	08-14-09	Mud M, sample is silt with very little clay, trace sand and minor mica content. Color: 2.5Y5/3, slightly moist, moderate to heavy acid reactivity, uniform texture, very slightly cohesive, mainly due to moisture. Mud was difficult to remove from walls of tube. Tube full. Estimated Soil Density: 1.911 g/mL.
B21208 Core B	08-14-09	Muddy sand mS, medium grained poorly sorted, color 2.5Y6/2, very slightly moist, moderate acid reactivity, sand with silt and trace of gravel, largest fragment ~ 3mm, basalt and quartz grains, angular to sub-angular, trace mica. Tube full. Estimated Soil Density: 2.026 g/mL.

Sample ID	Date Examined	Description
B21208 Core C	08-14-09	Sand S, moderately well sorted, color: 2.5Y6/3, very slightly moist, moderate acid reactivity, trace gravel, largest fragment ~ 3mm, medium to coarse sand no mud, trace mica basalt and quartz grains sub-angular to sub-rounded. Tube full. Estimated Soil Density: 2.072 g/mL.
B21211 Core A	08-18-09	Sand S, coarse to medium grained, moderately well sorted, color: 2.5Y6/2, very slightly moist, moderate acid reactivity, one piece gravel ~10mm, sub-angular to sub-rounded. Largest pieces are basalt fragments. Salt and pepper texture with quartz and basalt in coarse sand, trace mica. Tube full. Estimated Soil Density: 2.000 g/mL.
B21211 Core B	08-18-09	Sand S, coarse to medium grained, moderately well sorted, color: 2.5Y5/2, very slightly moist, moderate acid reactivity, sub-angular to sub-round, mix of quartz and basalt, Salt and pepper texture, trace mica. Tube full. Estimated Soil Density: 2.089 g/mL.
B21211 Core C	08-18-09	Sand S, medium to coarse grained, moderately well sorted, color: 2.5Y5/2, very slightly moist, moderate acid reactivity, angular to sub-angular quartz and basalt fragments, Salt and pepper texture, trace mica. Scattered orange red iron stained grains. Tubes were well packed but sediments were extracted with moderate effort. Tube full. Estimated Soil Density: 2.029 g/mL.
B21214 Core A	08-18-09	Sand S, medium to fine grained, moderately well sorted, color: 2.5Y5/3, very slightly moist, slight to moderate acid reactivity, trace gravel, minor amount silt, angular to sub-angular, coarse grains are predominantly quartz. 10mm long basalt sub-rounded fragment, Some white grains may be caliche. Tube full. Estimated Soil Density: 1.921 g/mL.
B21214 Core B	08-18-09	Slightly muddy sand (m)S, moderately well sorted coarse grains, color: 2.5Y5/3, very slightly moist, moderate acid reactivity, medium to fine grained silty sand, angular to sub-angular, uniform texture, non-cohesive, trace mica. 12mm in top has lens of silt. Tube full. Estimated Soil Density: 1.982 g/mL.
B21214 Core C	08-18-09	(gm)S, predominantly silt becoming sandy approximately 50mm into tube. Becoming slightly gravelly near top, poorly sorted. Color: 2.5Y5/3, very slightly moist, moderate acid reactivity. Largest particle 13mm long, basalt fragment, quartz gravel is sub-round to sub-angular, sub-angular to angular medium grained sand. Trace mica. Tube full. Estimated Soil Density: 2.026 g/mL.

Munsell colors were determined using the 2.5Y color card

Appendix B

ANALYTICAL RAW DATA

See Separate Files "RPP-RPT-46241 Rev.0 Appendix B"

B.1 Raw Data Inorganic
B.2 Raw Data Radiochemistry
B.3.1 Raw Data Organic SVOA Analytical Batches
B.3.2 Raw Data Organic SVOA Supporting Data
B.3.3 Raw Data Organic VOA Analytical Batches
B.3.4 Raw Data Organic VOA Supporting Data
B.4 Supporting Data

DISTRIBUTION SHEET

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Andrew Templeton	G. P. Ritenour	Date 6/2/10
Project Title/Work Order		EDT No. N/A
Final Analytical Report for Samples from Waste Management Area C for Core Holes: C7466 and C7468 in Support of RCRA Soil Characteriza		ECN No. N/A

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
G. P. Ritenour	T6-10	X			
S. J. Eberlein	E6-31	X			
M. P. Connelly	E6-31	X			
K. J. Dunbar	E6-31	X			
H. A. Sydnor	E6-31	X			
D. M. Nguyen	B1-55	X			
A. M. Templeton	E6-31	X			
M. P. Bergeron	E6-31	X			
C. L. Tabor	E6-31	X			
C. P. Mangano	H8-51	X			
S. A. Lynch	R3-50	X			
R. W. Lober	H6-60	X			
DOE Reading Room	H2-53	H			

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