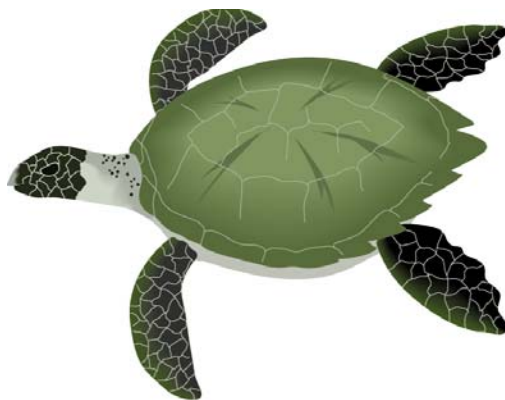




**United States Air Force
15th Airlift Wing
Environmental Restoration Program**

***Final*
PROJECT COMPLETION REPORT
REMOVE BELLOWS LANDFILL LF24,
MARINE CORPS TRAINING AREA,
BELLOWS**

OAHU, HAWAII



APPENDIX I

Data Quality Assessment Report

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Acronyms and Abbreviations

AFCEE	Air Force Center for Engineering and Environment
APPL	Agriculture & Priority Pollutants Laboratory
COC	chain of custody
EPA	U.S. Environmental Protection Agency
ERP QAPP	<i>Environmental Restoration program Quality Assurance Project Plan for Multiple Projects at 15 ABW Installations in Hawaii</i>
FD	field duplicate
LCS	laboratory control samples
LF24	Site LF24, Pier Dump Site
MS/MSD	matrix spike/matrix spike duplicate
PCB	polychlorinated biphenyl
PAH	polynuclear aromatic hydrocarbon
PARCC	precision, accuracy, representativeness, comparability, and completeness
QAPP	Quality Assurance Project Plan
QC	quality control
RCRA	Resource Conservation and Recovery Act
RL	reporting limit
SDG	sample delivery group
SIM	selected ion monitoring
SQAPP	Supplemental Quality Assurance Project Plan
TA	TestAmerica Laboratories
TPH-d	total petroleum hydrocarbons, diesel-range organics

1.0 Introduction

This report discusses the analytical data quality results for environmental samples collected for the removal of the Pier Dump Site (LF24) at Marine Corps Training Area-Bellows located on Oahu, Hawaii. The analytical work was conducted in accordance with the project-specific Work Plan, which contains the Supplemental Quality Assurance Project Plan (SQAPP). The SQAPP supplements the *Environmental Restoration Program Quality Assurance Project Plan for Multiple Projects at 15th Airlift Wing, Hickam AFB, Oahu, Hawaii* (ERP QAPP) (CH2M HILL, November 17, 2006), that used the AFCEE *Quality Assurance Project Plan (QAPP), Version 4.0.02* (AFCEE, May 2006) as guidance.

1.1 Analytical Laboratory and Analytical Methods

Analyses on a majority of the project samples were performed by Agriculture & Priority Pollutants Laboratory Inc., Fresno, California (APPL). Field samples were shipped to APPL by overnight carrier. TestAmerica Laboratories (TA), Oahu, Hawaii performed analysis of several samples to accommodate a very fast turn around time need for the project. When TA performed the analysis, samples were hand delivered to the laboratory. The following methods were used to analyze the environmental samples:

Confirmation Sample Collection:

- Diesel range organics (TPH-d) by U.S. Environmental Protection Agency (EPA) Method SW8015B
- Polychlorinated biphenyls (PCB) by EPA Method SW8082
- Polynuclear aromatic hydrocarbons (PAH) by EPA Method SW8270C-selected ion monitoring SIM
- Organochlorine Pesticides by EPA Method SW8081A
- Resource Conservation and Recovery Act (RCRA) metals by EPA Method SW6010B
- Mercury by EPA Method SW7471A

Backfill Sample Collection:

- TPH-d by EPA Method SW8015B
- PCBs by EPA Method SW8082 (road derived fill sources only)
- PAHs by EPA Method SW8270C-SIM
- Herbicides by EPA Method SW8151A (road derived fill sources only)

- RCRA metals by EPA Method SW6010B
- Mercury by EPA Method SW7471A

Waste Characterization Collection:

- TPH-d by EPA Method SW8015B
- PCBs by EPA Method SW8082
- PAHs by EPA Method SW8270C-SIM
- RCRA toxicity characteristic leaching procedure metals by EPA Method SW6010B and SW7470A
- Lead by EPA Method SW6010B

Stockpile Collection:

- Lead by EPA Method SW6010B

Twenty-five sample delivery groups (SDG) were evaluated for data quality. A listing of sample identifications, chronology, and analyses associated with these SDGs is provided in Table 1 of this report.

1.2 Field Sample Collection

Seventy-two soil samples and one miscellaneous unknown matrix were collected. In addition, five field duplicates (FD) were collected. All samples were collected between August 27, 2008, and December 16, 2008. Quality control (QC) samples including matrix spike/matrix spike duplicates (MS/MSD) were collected and analyzed in accordance with the ERP QAPP. Collection of equipment blanks was not required. Table 2 includes a summary of the field samples collected.

2.0 Data Review and Validation Process

2.1 Data Validation Definition

All analytical data from this investigation were evaluated as described in the ERP QAPP. One hundred percent of definitive analytical results were validated. The assessment of definitive data includes a review of the following laboratory summary forms:

- Chain-of-custody (COC) documentation
- Holding-time compliance
- Required QC samples at the specified frequencies
- Method blanks
- Laboratory control samples (LCS)
- Surrogate spike recoveries
- MS/MSD samples on a site/location basis
- Initial and continuing calibration information
- Internal standards
- Instrument tune performance check
- FD precision
- Case narrative review, and other method-specific criteria

Data flags were assigned using the QC acceptance limits and procedures defined in the ERP QAPP and/or by the laboratory. A final flag is applied to the data according to the most conservative of the validation flags.

2.2 Overall Data Validation Findings

An overall summary of definitive data sample results and the reasons each were flagged is presented in Table 3. The information in Table 3 is presented so that each flag applied to a method/matrix/analyte is shown. In addition, a statistical evaluation of the results are provided so that the percentage of results impacted by a specific data quality condition or flag, with respect to the total results available for any target analyte/matrix, is shown. Only out-of-control conditions noted during the data validation are discussed in Table 3 and in the following subsections.

2.3 Matrix Spike/Matrix Spike Duplicate

MS/MSD recoveries met acceptance criteria overall. There were out of control recoveries for some MS/MSD samples metals, pesticides, herbicides, TPH-d, and PAHs. In some cases

the precision between the MS and the MSD was also out of control. The detected results from out of control MS/MSDs were flagged "M" and the non-detected results were flagged "UM". All qualified results are considered estimated concentrations. Only results from the parent sample are qualified. Table 4 shows the qualified results.

Specifically for metals there were cases where the post digestion spike and/or the serial dilution were also out of control. The detected results from out of control post spikes and serial dilutions were flagged "J" and the non-detected results were flagged "UJ". Table 4 also shows these qualified results.

2.4 Surrogate Spike

In some cases there were surrogate spikes that were diluted out and therefore the recovery was not flagged during data validation. There were also some instances where the surrogate spike was out of control with a high bias and all associated results were not detected. When this occurred no flag was applied to the results.

2.5 Calibration

There were some instances where the continuing calibration for a method may have been out of control with a high bias and all associated results were not detected. When this occurred no flag was applied to the results.

2.6 Low Level Detections

Detected sample results between the method detection limit and the reporting limit (RL) have been flagged "F" unless superseded by a data flag associated with a quality control exceedance (that is, J or M). The qualified results represent values determined at levels where the true value of the target compound could not be quantified with a high degree of confidence. The data user may consider these qualified results as estimated concentrations.

2.7 Blank Contamination

Overall, the analytes detected in blanks were consistent with normal laboratory operations. The laboratory blanks were free of contamination greater than one half of the reporting limit and no corrective action by the laboratory was required.

2.8 COC Issue Noted

Over the course of the project there were a number of errors/omissions in the COC that did not cause any significant impact to the sample results. There were a minimum number of instances where a method or quality assurance/QC sample (MS/MSD) was needed but not requested on the COC and was therefore added by contacting the laboratory with the request. Samples that were analyzed by TA were hand delivered to the laboratory and the cooler did not contain any ice. However, it was noted that the samples were delivered from 1.5 to 3.5 hours of collection and none of the requested analyses were to report volatile compounds. No action was taken for this issue during the data validation.

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3.0 Summary of Precision, Accuracy, Representativeness, Comparability, and Completeness

The quality of the field sampling efforts and laboratory results were evaluated for compliance with project data quality objectives through a review of overall precision, accuracy, representativeness, comparability, and completeness (PARCC). Procedures used to assess PARCC are in accordance with the respective analytical methods and the ERP QAPP requirements.

3.1 Precision

Matrix precision from MS/MSDs is in control overall. Matrix precision is also evaluated through the results of FDs. FD samples are in control and show that the field activities adequately collected representative samples and that the laboratory was capable of evaluating the matrix consistently.

Laboratory precision is in control as shown by the repeated in-control performance (accuracy) of the LCSs and meets project objectives. All results qualified from out-of-control precision are qualified as estimated concentrations. The method and matrix precision are acceptable.

3.2 Accuracy

Matrix accuracy from surrogate spikes is in control overall as no results were flagged from surrogate spike failure. MS/MSDs are in control with the exception of those compounds listed in the Tables 4. LCS accuracy is in control as is the initial and continuing calibrations for all methods and analytes. All of the results qualified from out-of-control accuracy are qualified as estimated concentrations. Overall, the method and matrix accuracy are acceptable.

3.3 Representativeness

Sample data are representative of the site conditions at the time of sample collection. All samples were properly stored and preserved. All analytical data are reported from an analysis within the EPA recommended hold-time. The results of laboratory blanks were at

concentrations less than one half the RLs. Overall, blank contamination was indicative of normal laboratory operations.

3.4 Appropriateness of Reporting limits

This project was designed to allow risk-based decisions to be made based on the results of EPA-approved analytical methodologies. Sample dilutions required from matrix interference and/or high target analyte concentrations results in elevated RLs for sample data. RLs achieved are the best possible based on sample variables.

3.5 Comparability

All samples were reported in industry-standard units. Analytical protocols for the methods were followed. Results obtained are comparable to industry standards in that collection and analytical techniques followed approved, documented procedures.

3.6 Completeness

There are no sample results qualified as unusable (R flagged) for project objectives. Therefore, the completeness objective of 90 percent for soil sample results was met. The completeness data are summarized in Table 5.

3.7 Conclusions

According to data review and validation, the data generated from the soil sample analyses at LF24 are of sufficient quality and quantity necessary for accomplishing project objectives. Sample results accurately indicate the presence and/or absence of target analyte contaminations at sampled locations. Samples were collected and analyzed as specified in the project work plan. Sample results are believed to be representative of site conditions at the time of collection. Results obtained are comparable to industry standards in that collection and analytical techniques followed approved, documented procedures (except as noted in this report). All results are reported in industry standard units. Although blank contamination occurred, the concentrations were below one half the RL and representative of normal laboratory procedures.

The data are 100 percent complete and all results are usable for project objectives. The overall completeness of the data indicates that the quality of the analytical program and the laboratory and field procedures were sufficient to meet the project data quality objectives.

4.0 References

- CH2M HILL. November 17, 2006. *Environmental Restoration Program Quality Assurance Project Plan for Multiple Projects for the 15th Airlift Wing, Hickam Air Force Base, Oahu, Hawaii* (ERP QAPP). Prepared for the Air Force Center for Environmental Excellence, Environmental Services Office, Installation-Worldwide Pacific Division (AFCEE/IWP), Brooks City-Base, Texas, and for 15th Airlift Wing CES/CEVR, Hickam Air Force Base, Oahu, Hawaii. [Online:]
http://projects.ch2m.com/hnl_afcee/TO395/TO395_15AW_ERPQAPP.pdf.
- U.S. Department of the Air Force. Air Force Center for Environmental Excellence (AFCEE). May 2006. *AFCEE Model Quality Assurance Project Plan, Version 4.0.02*. Brooks City-Base, Texas.

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Tables

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date
APPF	56871	LF24-BF001_0808	SW6010B	8/27/2008	8/29/2008	9/3/2008	9/4/2008
		LF24-BF001_0808	SW7471A	8/27/2008	8/29/2008	9/3/2008	9/4/2008
		LF24-BF001_0808	SW8015-E	8/27/2008	8/29/2008	9/4/2008	9/5/2008
		LF24-BF001_0808	SW8081	8/27/2008	8/29/2008	9/4/2008	9/9/2008
		LF24-BF001_0808	SW8082	8/27/2008	8/29/2008	9/4/2008	9/9/2008
		LF24-BF001_0808	SW8151A	8/27/2008	8/29/2008	9/5/2008	9/9/2008
		LF24-BF001_0808	SW8270C SIM	8/27/2008	8/29/2008	9/4/2008	9/9/2008
		LF24-BF002_0808	SW6010B	8/27/2008	8/29/2008	9/3/2008	9/4/2008
		LF24-BF002_0808	SW7471A	8/27/2008	8/29/2008	9/3/2008	9/4/2008
		LF24-BF002_0808	SW8015-E	8/27/2008	8/29/2008	9/4/2008	9/5/2008
		LF24-BF002_0808	SW8081	8/27/2008	8/29/2008	9/4/2008	9/9/2008
		LF24-BF002_0808	SW8082	8/27/2008	8/29/2008	9/4/2008	9/9/2008
		LF24-BF002_0808	SW8151A	8/27/2008	8/29/2008	9/5/2008	9/9/2008
		LF24-BF002_0808	SW8270C SIM	8/27/2008	8/29/2008	9/4/2008	9/9/2008
		LF24-BF003_0808	SW6010B	8/27/2008	8/29/2008	9/3/2008	9/4/2008
		LF24-BF003_0808	SW7471A	8/27/2008	8/29/2008	9/3/2008	9/4/2008
		LF24-BF003_0808	SW8015-E	8/27/2008	8/29/2008	9/4/2008	9/10/2008
		LF24-BF003_0808	SW8081	8/27/2008	8/29/2008	9/10/2008	9/11/2008
		LF24-BF003_0808	SW8082	8/27/2008	8/29/2008	9/4/2008	9/9/2008
		LF24-BF003_0808	SW8151A	8/27/2008	8/29/2008	9/5/2008	9/9/2008
		LF24-BF003_0808	SW8270C SIM	8/27/2008	8/29/2008	9/4/2008	9/9/2008
		LF24-BF003FD_0808	SW8081	8/27/2008	8/29/2008	9/10/2008	9/11/2008
		LF24-BF003FD_0808MS	SW8081	8/27/2008	8/29/2008	9/10/2008	9/11/2008
		LF24-BF003FD_0808SD	SW8081	8/27/2008	8/29/2008	9/10/2008	9/11/2008
		LF24-BF004_0808	SW6010B	8/27/2008	8/29/2008	9/3/2008	9/4/2008
		LF24-BF004_0808	SW7471A	8/27/2008	8/29/2008	9/3/2008	9/4/2008
		LF24-BF004_0808	SW8015-E	8/27/2008	8/29/2008	9/4/2008	9/10/2008
		LF24-BF004_0808	SW8081	8/27/2008	8/29/2008	9/4/2008	9/9/2008
		LF24-BF004_0808	SW8082	8/27/2008	8/29/2008	9/4/2008	9/9/2008
		LF24-BF004_0808	SW8151A	8/27/2008	8/29/2008	9/5/2008	9/9/2008
		LF24-BF004_0808	SW8270C SIM	8/27/2008	8/29/2008	9/4/2008	9/9/2008
		LF24-BF005_0808	SW6010B	8/27/2008	8/29/2008	9/3/2008	9/4/2008
LF24-BF005_0808	SW7471A	8/27/2008	8/29/2008	9/3/2008	9/4/2008		
LF24-BF005_0808	SW8015-E	8/27/2008	8/29/2008	9/4/2008	9/10/2008		
LF24-BF005_0808	SW8081	8/27/2008	8/29/2008	9/4/2008	9/9/2008		

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date		
APPF	56871	LF24-BF005_0808	SW8082	8/27/2008	8/29/2008	9/4/2008	9/9/2008		
		LF24-BF005_0808	SW8151A	8/27/2008	8/29/2008	9/5/2008	9/9/2008		
		LF24-BF005_0808	SW8270C SIM	8/27/2008	8/29/2008	9/4/2008	9/10/2008		
		LF24-BF006_0808	SW6010B	8/27/2008	8/29/2008	9/3/2008	9/4/2008		
		LF24-BF006_0808	SW7471A	8/27/2008	8/29/2008	9/3/2008	9/4/2008		
		LF24-BF006_0808	SW8015-E	8/27/2008	8/29/2008	9/4/2008	9/10/2008		
		LF24-BF006_0808	SW8081	8/27/2008	8/29/2008	9/4/2008	9/9/2008		
		LF24-BF006_0808	SW8082	8/27/2008	8/29/2008	9/4/2008	9/9/2008		
		LF24-BF006_0808	SW8151A	8/27/2008	8/29/2008	9/5/2008	9/9/2008		
		LF24-BF006_0808	SW8270C SIM	8/27/2008	8/29/2008	9/4/2008	9/10/2008		
		LF24-BF007_0808	SW6010B	8/27/2008	8/29/2008	9/3/2008	9/4/2008		
		LF24-BF007_0808	SW7471A	8/27/2008	8/29/2008	9/3/2008	9/4/2008		
		LF24-BF007_0808	SW8015-E	8/27/2008	8/29/2008	9/4/2008	9/10/2008		
		LF24-BF007_0808	SW8081	8/27/2008	8/29/2008	9/4/2008	9/9/2008		
		LF24-BF007_0808	SW8082	8/27/2008	8/29/2008	9/4/2008	9/9/2008		
		LF24-BF007_0808	SW8151A	8/27/2008	8/29/2008	9/5/2008	9/9/2008		
		LF24-BF007_0808	SW8270C SIM	8/27/2008	8/29/2008	9/4/2008	9/10/2008		
		LF24-BF008_0808	SW6010B	8/27/2008	8/29/2008	9/3/2008	9/4/2008		
		LF24-BF008_0808	SW7471A	8/27/2008	8/29/2008	9/3/2008	9/4/2008		
		LF24-BF008_0808	SW8015-E	8/27/2008	8/29/2008	9/4/2008	9/10/2008		
		LF24-BF008_0808	SW8081	8/27/2008	8/29/2008	9/4/2008	9/9/2008		
		LF24-BF008_0808	SW8082	8/27/2008	8/29/2008	9/4/2008	9/9/2008		
		LF24-BF008_0808	SW8151A	8/27/2008	8/29/2008	9/5/2008	9/9/2008		
		LF24-BF008_0808	SW8270C SIM	8/27/2008	8/29/2008	9/4/2008	9/10/2008		
		LF24-BF008_0808MS	SW6010B	8/27/2008	8/29/2008	9/3/2008	9/4/2008		
		LF24-BF008_0808MS	SW7471A	8/27/2008	8/29/2008	9/3/2008	9/4/2008		
		LF24-BF008_0808SD	SW6010B	8/27/2008	8/29/2008	9/3/2008	9/4/2008		
		LF24-BF008_0808SD	SW7471A	8/27/2008	8/29/2008	9/3/2008	9/4/2008		
		56913		LF24-BF009_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
				LF24-BF009_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
				LF24-BF009_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/18/2008
				LF24-BF009_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
LF24-BF009_0908	SW8151A			9/3/2008	9/5/2008	9/12/2008	9/17/2008		
LF24-BF009_0908	SW8270C SIM			9/3/2008	9/5/2008	9/16/2008	9/18/2008		
LF24-BF010_0908	SW6010B			9/3/2008	9/5/2008	9/9/2008	9/10/2008		

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date
APPF	56913	LF24-BF010_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF010_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF010_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF010_0908	SW8151A	9/3/2008	9/5/2008	9/12/2008	9/17/2008
		LF24-BF010_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF011_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF011_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF011_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF011_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF011_0908	SW8151A	9/3/2008	9/5/2008	9/12/2008	9/17/2008
		LF24-BF011_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF012_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF012_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF012_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF012_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF012_0908	SW8151A	9/3/2008	9/5/2008	9/12/2008	9/17/2008
		LF24-BF012_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF013_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF013_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF013_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF013_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF013_0908	SW8151A	9/3/2008	9/5/2008	9/12/2008	9/17/2008
		LF24-BF013_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF014_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF014_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF014_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF014_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF014_0908	SW8151A	9/3/2008	9/5/2008	9/12/2008	9/17/2008
		LF24-BF014_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF014_0908MS	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF014_0908MS	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF014_0908MS	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF014_0908MS	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF014_0908MS	SW8151A	9/3/2008	9/5/2008	9/16/2008	9/17/2008
LF24-BF014_0908MS	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/18/2008		

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date
APPF	56913	LF24-BF014_0908SD	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF014_0908SD	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF014_0908SD	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF014_0908SD	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF014_0908SD	SW8151A	9/3/2008	9/5/2008	9/16/2008	9/17/2008
		LF24-BF014_0908SD	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF015_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF015_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF015_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/19/2008
		LF24-BF015_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF015_0908	SW8151A	9/3/2008	9/5/2008	9/16/2008	9/17/2008
		LF24-BF015_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF016_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF016_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF016_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/19/2008
		LF24-BF016_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF016_0908	SW8151A	9/3/2008	9/5/2008	9/12/2008	9/17/2008
		LF24-BF016_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF017_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF017_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF017_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/19/2008
		LF24-BF017_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF017_0908	SW8151A	9/3/2008	9/5/2008	9/12/2008	9/17/2008
		LF24-BF017_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF018_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF018_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF018_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/19/2008
		LF24-BF018_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF018_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/18/2008
		LF24-BF019_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF019_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008
		LF24-BF019_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/19/2008
		LF24-BF019_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008
		LF24-BF019_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/19/2008
		LF24-BF020_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date	
APPF	56913	LF24-BF020_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008	
		LF24-BF020_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/19/2008	
		LF24-BF020_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008	
		LF24-BF020_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/19/2008	
		LF24-BF112_0908	SW6010B	9/3/2008	9/5/2008	9/9/2008	9/10/2008	
		LF24-BF112_0908	SW7471A	9/3/2008	9/5/2008	9/9/2008	9/10/2008	
		LF24-BF112_0908	SW8015-E	9/3/2008	9/5/2008	9/16/2008	9/19/2008	
		LF24-BF112_0908	SW8082	9/3/2008	9/5/2008	9/12/2008	9/16/2008	
		LF24-BF112_0908	SW8151A	9/3/2008	9/5/2008	9/12/2008	9/17/2008	
		LF24-BF112_0908	SW8270C SIM	9/3/2008	9/5/2008	9/16/2008	9/19/2008	
	57137	LF24-WS-001-D6.0	D2216	10/2/2008	10/3/2008		10/7/2008	
		LF24-WS-001-D6.0	M8015D	10/2/2008	10/3/2008	10/8/2008	10/8/2008	
		LF24-WS-001-D6.0	SW6010B	10/2/2008	10/3/2008	10/7/2008	10/8/2008	
		LF24-WS-001-D6.0	SW7470A	10/2/2008	10/3/2008	10/7/2008	10/7/2008	
		LF24-WS-001-D6.0	SW8082	10/2/2008	10/3/2008	10/8/2008	10/8/2008	
		LF24-WS-001-D6.0	SW8270SIM	10/2/2008	10/3/2008	10/8/2008	10/8/2008	
		LF24-WS-002-D6.0	D2216	10/2/2008	10/3/2008		10/7/2008	
		LF24-WS-002-D6.0	M8015D	10/2/2008	10/3/2008	10/8/2008	10/8/2008	
		LF24-WS-002-D6.0	SW6010B	10/2/2008	10/3/2008	10/7/2008	10/8/2008	
		LF24-WS-002-D6.0	SW6010B	10/2/2008	10/3/2008	10/7/2008	10/8/2008	
		LF24-WS-002-D6.0	SW6010B	10/2/2008	10/3/2008	10/7/2008	10/8/2008	
		LF24-WS-002-D6.0	SW6010B	10/2/2008	10/3/2008	10/7/2008	10/8/2008	
		LF24-WS-002-D6.0	SW7470A	10/2/2008	10/3/2008	10/7/2008	10/7/2008	
		LF24-WS-002-D6.0	SW8082	10/2/2008	10/3/2008	10/8/2008	10/8/2008	
		LF24-WS-002-D6.0	SW8270SIM	10/2/2008	10/3/2008	10/8/2008	10/8/2008	
		LF24-WS-003-D6.0	D2216	10/2/2008	10/3/2008		10/7/2008	
		LF24-WS-003-D6.0	M8015D	10/2/2008	10/3/2008	10/8/2008	10/8/2008	
		LF24-WS-003-D6.0	SW6010B	10/2/2008	10/3/2008	10/7/2008	10/8/2008	
		LF24-WS-003-D6.0	SW7470A	10/2/2008	10/3/2008	10/7/2008	10/7/2008	
		LF24-WS-003-D6.0	SW8082	10/2/2008	10/3/2008	10/8/2008	10/9/2008	
		LF24-WS-003-D6.0	SW8270SIM	10/2/2008	10/3/2008	10/8/2008	10/8/2008	
		57148	LF24-WS-004-D4.0	D2216	10/2/2008	10/4/2008		10/8/2008
			LF24-WS-004-D4.0	SW6010B	10/2/2008	10/4/2008	10/7/2008	10/8/2008
LF24-WS-004-D4.0	SW6010B		10/2/2008	10/4/2008	10/17/2008	10/20/2008		
LF24-WS-004-D4.0	SW7470A		10/2/2008	10/4/2008	10/7/2008	10/7/2008		
LF24-WS-004-D4.0	SW7470A		10/2/2008	10/4/2008	10/7/2008	10/7/2008		

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date	
APPF	57148	LF24-WS-004-D4.0	SW7470A	10/2/2008	10/4/2008	10/7/2008	10/7/2008	
		LF24-WS-004-D4.0	SW8015-E	10/2/2008	10/4/2008	10/8/2008	10/9/2008	
		LF24-WS-004-D4.0	SW8082	10/2/2008	10/4/2008	10/8/2008	10/8/2008	
		LF24-WS-004-D4.0	SW8270C SIM	10/2/2008	10/4/2008	10/8/2008	10/8/2008	
		LF24-WS-005-D1.5	D2216	10/2/2008	10/4/2008		10/8/2008	
		LF24-WS-005-D1.5	SW6010B	10/2/2008	10/4/2008	10/7/2008	10/8/2008	
		LF24-WS-005-D1.5	SW6010B	10/2/2008	10/4/2008	10/17/2008	10/20/2008	
		LF24-WS-005-D1.5	SW7470A	10/2/2008	10/4/2008	10/7/2008	10/7/2008	
		LF24-WS-005-D1.5	SW8015-E	10/2/2008	10/4/2008	10/8/2008	10/9/2008	
		LF24-WS-005-D1.5	SW8082	10/2/2008	10/4/2008	10/8/2008	10/8/2008	
		LF24-WS-005-D1.5	SW8270C SIM	10/2/2008	10/4/2008	10/8/2008	10/8/2008	
		LF24-WS-006-D3.0	D2216	10/3/2008	10/4/2008		10/8/2008	
		LF24-WS-006-D3.0	SW6010B	10/3/2008	10/4/2008	10/7/2008	10/8/2008	
		LF24-WS-006-D3.0	SW7470A	10/3/2008	10/4/2008	10/7/2008	10/7/2008	
		LF24-WS-006-D3.0	SW8015-E	10/3/2008	10/4/2008	10/8/2008	10/8/2008	
	LF24-WS-006-D3.0	SW8082	10/3/2008	10/4/2008	10/8/2008	10/8/2008		
	LF24-WS-006-D3.0	SW8270C SIM	10/3/2008	10/4/2008	10/8/2008	10/8/2008		
	LF24-WS-007-D2.5	D2216	10/3/2008	10/4/2008		10/8/2008		
	LF24-WS-007-D2.5	SW6010B	10/3/2008	10/4/2008	10/7/2008	10/8/2008		
	LF24-WS-007-D2.5	SW7470A	10/3/2008	10/4/2008	10/7/2008	10/7/2008		
	LF24-WS-007-D2.5	SW8015-E	10/3/2008	10/4/2008	10/8/2008	10/8/2008		
	LF24-WS-007-D2.5	SW8082	10/3/2008	10/4/2008	10/8/2008	10/8/2008		
	LF24-WS-007-D2.5	SW8270C SIM	10/3/2008	10/4/2008	10/8/2008	10/8/2008		
	57184	LF24-CS-001-D-5.0	D2216		10/7/2008	10/9/2008		10/10/2008
		LF24-CS-001-D-5.0	SW6010B		10/7/2008	10/9/2008	10/10/2008	10/13/2008
		LF24-CS-001-D-5.0	SW7471A		10/7/2008	10/9/2008	10/10/2008	10/13/2008
		LF24-CS-001-D-5.0	SW8015-E		10/7/2008	10/9/2008	10/10/2008	10/13/2008
		LF24-CS-001-D-5.0	SW8081		10/7/2008	10/9/2008	10/13/2008	10/13/2008
		LF24-CS-001-D-5.0	SW8082		10/7/2008	10/9/2008	10/13/2008	10/13/2008
		LF24-CS-001-D-5.0	SW8270C SIM		10/7/2008	10/9/2008	10/10/2008	10/13/2008
		LF24-CS-001-D-5.0MS	SW6010B		10/7/2008	10/9/2008	10/10/2008	10/13/2008
		LF24-CS-001-D-5.0MS	SW7471A		10/7/2008	10/9/2008	10/10/2008	10/13/2008
		LF24-CS-001-D-5.0SD	SW6010B		10/7/2008	10/9/2008	10/10/2008	10/13/2008
LF24-CS-001-D-5.0SD	SW7471A		10/7/2008	10/9/2008	10/10/2008	10/13/2008		
57199_APPF	LF24-WS-008-D6.0	SW6010B		10/8/2008	10/10/2008	10/13/2008	10/13/2008	

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date
APPF	57199_APPF	LF24-WS-008-D6.0	SW6010B	10/8/2008	10/10/2008	10/17/2008	10/20/2008
		LF24-WS-008-D6.0	SW7470A	10/8/2008	10/10/2008	10/13/2008	10/13/2008
		LF24-WS-008-D6.0	SW8015-E	10/8/2008	10/10/2008	10/13/2008	10/13/2008
		LF24-WS-008-D6.0	SW8082	10/8/2008	10/10/2008	10/13/2008	10/13/2008
		LF24-WS-008-D6.0	SW8270C SIM	10/8/2008	10/10/2008	10/13/2008	10/13/2008
		LF24-WS-008-D6.0MS	SW6010B	10/8/2008	10/10/2008	10/13/2008	10/13/2008
		LF24-WS-008-D6.0MS	SW6010B	10/8/2008	10/10/2008	10/17/2008	10/20/2008
		LF24-WS-008-D6.0MS	SW7470A	10/8/2008	10/10/2008	10/13/2008	10/13/2008
		LF24-WS-008-D6.0SD	SW6010B	10/8/2008	10/10/2008	10/13/2008	10/13/2008
		LF24-WS-008-D6.0SD	SW6010B	10/8/2008	10/10/2008	10/17/2008	10/20/2008
	57240	LF24-WS-008-D6.0SD	SW7470A	10/8/2008	10/10/2008	10/13/2008	10/13/2008
		LF24-WS-009-D5.0	SW6010B	10/14/2008	10/16/2008	10/17/2008	10/20/2008
		LF24-WS-009-D5.0	SW6010B	10/14/2008	10/16/2008	10/21/2008	10/21/2008
		LF24-WS-009-D5.0	SW7470A	10/14/2008	10/16/2008	10/20/2008	10/21/2008
		LF24-WS-009-D5.0	SW8015-E	10/14/2008	10/16/2008	10/17/2008	10/21/2008
		LF24-WS-009-D5.0	SW8082	10/14/2008	10/16/2008	10/17/2008	10/21/2008
		LF24-WS-009-D5.0	SW8270C SIM	10/14/2008	10/16/2008	10/20/2008	10/20/2008
		LF24-WS-009-D5.0MS	SW6010B	10/14/2008	10/16/2008	10/17/2008	10/20/2008
		LF24-WS-009-D5.0MS	SW7470A	10/14/2008	10/16/2008	10/20/2008	10/21/2008
		LF24-WS-009-D5.0SD	SW6010B	10/14/2008	10/16/2008	10/17/2008	10/20/2008
		LF24-WS-009-D5.0SD	SW7470A	10/14/2008	10/16/2008	10/20/2008	10/21/2008
		57256	LF24-WS-109-D5.0	SW6010B	10/14/2008	10/16/2008	10/17/2008
	LF24-WS-109-D5.0		SW6010B	10/14/2008	10/16/2008	10/21/2008	10/21/2008
	LF24-WS-109-D5.0		SW7470A	10/14/2008	10/16/2008	10/20/2008	10/21/2008
	LF24-WS-109-D5.0		SW8015-E	10/14/2008	10/16/2008	10/17/2008	10/21/2008
	LF24-WS-109-D5.0		SW8082	10/14/2008	10/16/2008	10/17/2008	10/21/2008
	LF24-WS-109-D5.0		SW8270C SIM	10/14/2008	10/16/2008	10/20/2008	10/20/2008
	LF24-CS-002-D4.0		SW6010B	10/15/2008	10/17/2008	10/20/2008	10/20/2008
	LF24-CS-002-D4.0		SW7471A	10/15/2008	10/17/2008	10/20/2008	10/21/2008
	LF24-CS-002-D4.0		SW8015-E	10/15/2008	10/17/2008	10/21/2008	10/21/2008
	LF24-CS-002-D4.0		SW8081	10/15/2008	10/17/2008	10/21/2008	10/22/2008
	LF24-CS-002-D4.0	SW8082	10/15/2008	10/17/2008	10/21/2008	10/21/2008	
LF24-CS-002-D4.0	SW8270C SIM	10/15/2008	10/17/2008	10/20/2008	10/20/2008		
LF24-CS-002-D4.0MS	SW6010B	10/15/2008	10/17/2008	10/20/2008	10/20/2008		
LF24-CS-002-D4.0SD	SW6010B	10/15/2008	10/17/2008	10/20/2008	10/20/2008		

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date	
APPF	57363	LF24-CS-005-D6.0	SW8270C SIM	10/24/2008	10/25/2008	10/28/2008	10/28/2008	
		LF24-CS-005-D6.0MS	SW7471A	10/24/2008	10/25/2008	10/28/2008	10/29/2008	
		LF24-CS-005-D6.0SD	SW7471A	10/24/2008	10/25/2008	10/28/2008	10/29/2008	
		LF24-WS-011-D6.0	SW6010B	10/24/2008	10/25/2008	10/28/2008	10/28/2008	
		LF24-WS-011-D6.0	SW7470A	10/24/2008	10/25/2008	10/28/2008	10/28/2008	
		LF24-WS-011-D6.0	SW8015-E	10/24/2008	10/25/2008	10/28/2008	10/29/2008	
		LF24-WS-011-D6.0	SW8082	10/24/2008	10/25/2008	10/28/2008	10/29/2008	
		LF24-WS-011-D6.0	SW8270C SIM	10/24/2008	10/25/2008	10/28/2008	10/29/2008	
		LF24-WS-011-D6.0MS	SW6010B	10/24/2008	10/25/2008	10/28/2008	10/28/2008	
		LF24-WS-011-D6.0SD	SW6010B	10/24/2008	10/25/2008	10/28/2008	10/28/2008	
		57387	LF24-CS-006-D8.0	SW6010B	10/27/2008	10/29/2008	10/31/2008	10/31/2008
			LF24-CS-006-D8.0	SW7471A	10/27/2008	10/29/2008	10/31/2008	10/31/2008
			LF24-CS-006-D8.0	SW8015-E	10/27/2008	10/29/2008	10/30/2008	10/30/2008
			LF24-CS-006-D8.0	SW8081	10/27/2008	10/29/2008	10/30/2008	10/31/2008
			LF24-CS-006-D8.0	SW8082	10/27/2008	10/29/2008	10/30/2008	10/31/2008
			LF24-CS-006-D8.0	SW8270C SIM	10/27/2008	10/29/2008	10/30/2008	11/3/2008
	LF24-WS-012-D7.0		SW6010B	10/27/2008	10/29/2008	10/30/2008	10/31/2008	
	LF24-WS-012-D7.0		SW6010B	10/27/2008	10/29/2008	10/31/2008	10/31/2008	
	LF24-WS-012-D7.0		SW7470A	10/27/2008	10/29/2008	10/30/2008	10/30/2008	
	LF24-WS-012-D7.0		SW8015-E	10/27/2008	10/29/2008	10/30/2008	10/31/2008	
	LF24-WS-012-D7.0		SW8082	10/27/2008	10/29/2008	10/30/2008	10/31/2008	
	LF24-WS-012-D7.0		SW8270C SIM	10/27/2008	10/29/2008	10/30/2008	11/3/2008	
	LF24-WS-012-D7.0MS		SW6010B	10/27/2008	10/29/2008	10/30/2008	10/31/2008	
	LF24-WS-012-D7.0MS		SW7470A	10/27/2008	10/29/2008	10/30/2008	10/30/2008	
	LF24-WS-012-D7.0SD		SW6010B	10/27/2008	10/29/2008	10/30/2008	10/31/2008	
	LF24-WS-012-D7.0SD		SW7470A	10/27/2008	10/29/2008	10/30/2008	10/30/2008	
	57403	GRID7D-SP01-D5.0	SW6010B	10/29/2008	10/30/2008	10/31/2008	10/31/2008	
		GRID7D-SP02-D5.0	SW6010B	10/29/2008	10/30/2008	10/31/2008	10/31/2008	
		GRID7D-SP03-D5.0	SW6010B	10/29/2008	10/30/2008	10/31/2008	10/31/2008	
		GRID7D-SP04-D5.0	SW6010B	10/29/2008	10/30/2008	10/31/2008	10/31/2008	
		GRID7D-SP05-D5.0	SW6010B	10/29/2008	10/30/2008	10/31/2008	10/31/2008	
		LF24-CS-007-D6.0	SW6010B	10/29/2008	10/30/2008	10/31/2008	10/31/2008	
LF24-CS-007-D6.0		SW7471A	10/29/2008	10/30/2008	10/31/2008	10/31/2008		
LF24-CS-007-D6.0		SW8015-E	10/29/2008	10/30/2008	10/31/2008	11/3/2008		
LF24-CS-007-D6.0		SW8081	10/29/2008	10/30/2008	10/31/2008	11/3/2008		

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date	
APPF	57403	LF24-CS-007-D6.0	SW8082	10/29/2008	10/30/2008	10/31/2008	11/3/2008	
		LF24-CS-007-D6.0	SW8270C SIM	10/29/2008	10/30/2008	10/31/2008	11/3/2008	
		LF24-CS-007-D6.0MS	SW6010B	10/29/2008	10/30/2008	10/31/2008	10/31/2008	
		LF24-CS-007-D6.0MS	SW7471A	10/29/2008	10/30/2008	10/31/2008	10/31/2008	
		LF24-CS-007-D6.0SD	SW6010B	10/29/2008	10/30/2008	10/31/2008	10/31/2008	
		LF24-CS-007-D6.0SD	SW7471A	10/29/2008	10/30/2008	10/31/2008	10/31/2008	
	57501	LF24-CS-009-D9.0	SW6010B	11/12/2008	11/13/2008	11/17/2008	11/17/2008	
		LF24-CS-009-D9.0	SW7471A	11/12/2008	11/13/2008	11/17/2008	11/17/2008	
		LF24-CS-009-D9.0	SW8015-E	11/12/2008	11/13/2008	11/14/2008	11/14/2008	
		LF24-CS-009-D9.0	SW8081	11/12/2008	11/13/2008	11/14/2008	11/17/2008	
		LF24-CS-009-D9.0	SW8082	11/12/2008	11/13/2008	11/14/2008	11/17/2008	
		LF24-CS-009-D9.0	SW8270C SIM	11/12/2008	11/13/2008	11/14/2008	11/17/2008	
		LF24-CS-009-D9.0MS	SW6010B	11/12/2008	11/13/2008	11/17/2008	11/17/2008	
		LF24-CS-009-D9.0MS	SW7471A	11/12/2008	11/13/2008	11/17/2008	11/17/2008	
		LF24-CS-009-D9.0SD	SW6010B	11/12/2008	11/13/2008	11/17/2008	11/17/2008	
		LF24-CS-009-D9.0SD	SW7471A	11/12/2008	11/13/2008	11/17/2008	11/17/2008	
		57524	LF24-BF021	SW6010B	11/6/2008	11/14/2008	11/17/2008	11/17/2008
			LF24-BF021	SW7471A	11/6/2008	11/14/2008	11/17/2008	11/17/2008
			LF24-BF021	SW8015-E	11/6/2008	11/14/2008	11/17/2008	11/18/2008
			LF24-BF021	SW8082	11/6/2008	11/14/2008	11/17/2008	11/18/2008
	LF24-BF021		SW8151A	11/6/2008	11/14/2008	11/19/2008	11/20/2008	
	LF24-BF021		SW8270C SIM	11/6/2008	11/14/2008	11/17/2008	11/17/2008	
	LF24-BF022		SW6010B	11/10/2008	11/14/2008	11/17/2008	11/17/2008	
	LF24-BF022		SW7471A	11/10/2008	11/14/2008	11/17/2008	11/17/2008	
	LF24-BF022		SW8015-E	11/10/2008	11/14/2008	11/17/2008	11/18/2008	
	LF24-BF022		SW8082	11/10/2008	11/14/2008	11/17/2008	11/18/2008	
	LF24-BF022		SW8151A	11/10/2008	11/14/2008	11/19/2008	11/20/2008	
	LF24-BF022		SW8270C SIM	11/10/2008	11/14/2008	11/17/2008	11/17/2008	
	LF24-CS-008-D8.0		SW6010B	11/10/2008	11/14/2008	11/17/2008	11/17/2008	
	LF24-CS-008-D8.0		SW7471A	11/10/2008	11/14/2008	11/17/2008	11/17/2008	
	LF24-CS-008-D8.0		SW8015-E	11/10/2008	11/14/2008	11/17/2008	11/18/2008	
	LF24-CS-008-D8.0		SW8081	11/10/2008	11/14/2008	11/17/2008	11/18/2008	
	LF24-CS-008-D8.0		SW8082	11/10/2008	11/14/2008	11/17/2008	11/18/2008	
	LF24-CS-008-D8.0		SW8270C SIM	11/10/2008	11/14/2008	11/17/2008	11/17/2008	
	57533	LF24-CS-010-D7.0	SW6010B	11/14/2008	11/15/2008	11/18/2008	11/18/2008	

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date	
APPF	57533	LF24-CS-010-D7.0	SW7471A	11/14/2008	11/15/2008	11/18/2008	11/19/2008	
		LF24-CS-010-D7.0	SW8015-E	11/14/2008	11/15/2008	11/18/2008	11/19/2008	
		LF24-CS-010-D7.0	SW8081	11/14/2008	11/15/2008	11/18/2008	11/18/2008	
		LF24-CS-010-D7.0	SW8082	11/14/2008	11/15/2008	11/18/2008	11/18/2008	
		LF24-CS-010-D7.0	SW8270C SIM	11/14/2008	11/15/2008	11/18/2008	11/19/2008	
		LF24-CS-010-D7.0MS	SW6010B	11/14/2008	11/15/2008	11/18/2008	11/18/2008	
		LF24-CS-010-D7.0MS	SW7471A	11/14/2008	11/15/2008	11/18/2008	11/19/2008	
		LF24-CS-010-D7.0SD	SW6010B	11/14/2008	11/15/2008	11/18/2008	11/18/2008	
		LF24-CS-010-D7.0SD	SW7471A	11/14/2008	11/15/2008	11/18/2008	11/19/2008	
	57569	LF24-CS-011-D4.5	SW6010B	11/18/2008	11/20/2008	11/21/2008	11/21/2008	
		LF24-CS-011-D4.5	SW7471A	11/18/2008	11/20/2008	11/21/2008	11/21/2008	
		LF24-CS-011-D4.5	SW8015-E	11/18/2008	11/20/2008	11/21/2008	11/22/2008	
		LF24-CS-011-D4.5	SW8081	11/18/2008	11/20/2008	11/21/2008	11/24/2008	
		LF24-CS-011-D4.5	SW8082	11/18/2008	11/20/2008	11/21/2008	11/24/2008	
		LF24-CS-011-D4.5	SW8270C SIM	11/18/2008	11/20/2008	11/21/2008	11/22/2008	
		LF24-CS-012-D3.5	SW6010B	11/18/2008	11/20/2008	11/21/2008	11/21/2008	
		LF24-CS-012-D3.5	SW7471A	11/18/2008	11/20/2008	11/21/2008	11/21/2008	
		LF24-CS-012-D3.5	SW8015-E	11/18/2008	11/20/2008	11/21/2008	11/22/2008	
		LF24-CS-012-D3.5	SW8081	11/18/2008	11/20/2008	11/21/2008	11/24/2008	
		LF24-CS-012-D3.5	SW8082	11/18/2008	11/20/2008	11/21/2008	11/24/2008	
		LF24-CS-012-D3.5	SW8270C SIM	11/18/2008	11/20/2008	11/21/2008	11/22/2008	
		LF24-CS-012-D3.5MS	SW6010B	11/18/2008	11/20/2008	11/21/2008	11/21/2008	
		LF24-CS-012-D3.5MS	SW7471A	11/18/2008	11/20/2008	11/21/2008	11/21/2008	
		LF24-CS-012-D3.5SD	SW6010B	11/18/2008	11/20/2008	11/21/2008	11/21/2008	
		LF24-CS-012-D3.5SD	SW7471A	11/18/2008	11/20/2008	11/21/2008	11/21/2008	
		LF24-CS-013-D3.5	SW6010B	11/18/2008	11/20/2008	11/21/2008	11/21/2008	
		LF24-CS-013-D3.5	SW7471A	11/18/2008	11/20/2008	11/21/2008	11/21/2008	
		LF24-CS-013-D3.5	SW8015-E	11/18/2008	11/20/2008	11/21/2008	11/22/2008	
		LF24-CS-013-D3.5	SW8081	11/18/2008	11/20/2008	11/21/2008	11/24/2008	
		LF24-CS-013-D3.5	SW8082	11/18/2008	11/20/2008	11/21/2008	11/24/2008	
		LF24-CS-013-D3.5	SW8270C SIM	11/18/2008	11/20/2008	11/21/2008	11/22/2008	
		57583	LF24-WS-013-D3.0	SW6010B	11/20/2008	11/21/2008	11/24/2008	11/24/2008
			LF24-WS-013-D3.0	SW7470A	11/20/2008	11/21/2008	11/24/2008	11/24/2008
LF24-WS-013-D3.0	SW8015-E		11/20/2008	11/21/2008	11/24/2008	11/25/2008		
LF24-WS-013-D3.0	SW8082		11/20/2008	11/21/2008	11/24/2008	11/25/2008		

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date
APPF	57583	LF24-WS-013-D3.0	SW8270C SIM	11/20/2008	11/21/2008	11/24/2008	11/25/2008
		LF24-WS-013-D3.0MS	SW6010B	11/20/2008	11/21/2008	11/24/2008	11/24/2008
		LF24-WS-013-D3.0MS	SW7470A	11/20/2008	11/21/2008	11/24/2008	11/24/2008
		LF24-WS-013-D3.0SD	SW6010B	11/20/2008	11/21/2008	11/24/2008	11/24/2008
		LF24-WS-013-D3.0SD	SW7470A	11/20/2008	11/21/2008	11/24/2008	11/24/2008
	57598	LF24-CS-014-D10.0	SW6010B	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-CS-014-D10.0	SW7471A	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-CS-014-D10.0	SW8015-E	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-CS-014-D10.0	SW8081	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-CS-014-D10.0	SW8082	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-CS-014-D10.0	SW8270C SIM	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-CS-015-D10.0	SW6010B	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-CS-015-D10.0	SW7471A	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-CS-015-D10.0	SW8015-E	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-CS-015-D10.0	SW8081	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-CS-015-D10.0	SW8082	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-CS-015-D10.0	SW8270C SIM	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-CS-015-D10.0MS	SW6010B	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-CS-015-D10.0MS	SW7471A	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-CS-015-D10.0SD	SW6010B	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-CS-015-D10.0SD	SW7471A	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-WS-014-D3.0	SW6010B	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-WS-014-D3.0	SW7470A	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-WS-014-D3.0	SW8015-E	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-WS-014-D3.0	SW8082	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-WS-014-D3.0	SW8270C SIM	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-WS-014-D3.0MS	SW7470A	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-WS-014-D3.0SD	SW7470A	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-WS-015-D5.0	SW6010B	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-WS-015-D5.0	SW7470A	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-WS-015-D5.0	SW8015-E	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-WS-015-D5.0	SW8082	11/21/2008	11/22/2008	11/25/2008	11/26/2008
		LF24-WS-015-D5.0	SW8270C SIM	11/21/2008	11/22/2008	11/25/2008	11/25/2008
		LF24-WS-016-D5.0	SW6010B	11/21/2008	11/22/2008	11/25/2008	11/25/2008
LF24-WS-016-D5.0	SW7470A	11/21/2008	11/22/2008	11/25/2008	11/26/2008		

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date	
APPF	57598	LF24-WS-016-D5.0	SW8015-E	11/21/2008	11/22/2008	11/25/2008	11/26/2008	
		LF24-WS-016-D5.0	SW8082	11/21/2008	11/22/2008	11/25/2008	11/26/2008	
		LF24-WS-016-D5.0	SW8270C SIM	11/21/2008	11/22/2008	11/25/2008	11/25/2008	
		LF24-WS-016-D5.0MS	SW6010B	11/21/2008	11/22/2008	11/25/2008	11/25/2008	
		LF24-WS-016-D5.0SD	SW6010B	11/21/2008	11/22/2008	11/25/2008	11/25/2008	
	57612		LF24-CS-016-D4.0	SW6010B	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0	SW7471A	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0	SW8015-E	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0	SW8081	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0	SW8082	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0	SW8270C SIM	11/24/2008	11/25/2008	11/26/2008	11/29/2008
			LF24-CS-016-D4.0MS	SW6010B	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0MS	SW7471A	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0MS	SW8015-E	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0MS	SW8081	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0MS	SW8082	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0MS	SW8270C SIM	11/24/2008	11/25/2008	11/26/2008	11/28/2008
			LF24-CS-016-D4.0SD	SW6010B	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0SD	SW7471A	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0SD	SW8015-E	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0SD	SW8081	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0SD	SW8082	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-016-D4.0SD	SW8270C SIM	11/24/2008	11/25/2008	11/26/2008	11/29/2008
			LF24-CS-017-D8.0	SW6010B	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-017-D8.0	SW7471A	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-017-D8.0	SW8015-E	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-017-D8.0	SW8081	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-017-D8.0	SW8082	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-017-D8.0	SW8270C SIM	11/24/2008	11/25/2008	11/26/2008	11/29/2008
			LF24-CS-018-D9.0	SW6010B	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-018-D9.0	SW7471A	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-018-D9.0	SW8015-E	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-018-D9.0	SW8081	11/24/2008	11/25/2008	11/26/2008	12/1/2008
			LF24-CS-018-D9.0	SW8082	11/24/2008	11/25/2008	11/26/2008	12/1/2008
LF24-CS-018-D9.0	SW8270C SIM	11/24/2008	11/25/2008	11/26/2008	11/29/2008			

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date	
APPF	57612	LF24-CS-117-D8.0	SW6010B	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-CS-117-D8.0	SW7471A	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-CS-117-D8.0	SW8015-E	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-CS-117-D8.0	SW8081	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-CS-117-D8.0	SW8082	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-CS-117-D8.0	SW8270C SIM	11/24/2008	11/25/2008	11/26/2008	11/29/2008	
		LF24-WS-017-D4.0	SW6010B	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-WS-017-D4.0	SW7470A	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-WS-017-D4.0	SW8015-E	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-WS-017-D4.0	SW8082	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-WS-017-D4.0	SW8270C SIM	11/24/2008	11/25/2008	11/26/2008	11/29/2008	
		LF24-WS-017-D4.0MS	SW6010B	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-WS-017-D4.0MS	SW7470A	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-WS-017-D4.0MS	SW8015-E	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
		LF24-WS-017-D4.0MS	SW8082	11/24/2008	11/25/2008	11/26/2008	12/1/2008	
	LF24-WS-017-D4.0MS	SW8270C SIM	11/24/2008	11/25/2008	11/26/2008	11/29/2008		
	LF24-WS-017-D4.0SD	SW6010B	11/24/2008	11/25/2008	11/26/2008	12/1/2008		
	LF24-WS-017-D4.0SD	SW7470A	11/24/2008	11/25/2008	11/26/2008	12/1/2008		
	LF24-WS-017-D4.0SD	SW8015-E	11/24/2008	11/25/2008	11/26/2008	12/1/2008		
	LF24-WS-017-D4.0SD	SW8082	11/24/2008	11/25/2008	11/26/2008	12/1/2008		
	LF24-WS-017-D4.0SD	SW8270C SIM	11/24/2008	11/25/2008	11/26/2008	11/29/2008		
	LF24-WS-018-D6.0	SW6010B	11/24/2008	11/25/2008	11/26/2008	12/1/2008		
	LF24-WS-018-D6.0	SW7470A	11/24/2008	11/25/2008	11/26/2008	12/1/2008		
	LF24-WS-018-D6.0	SW8015-E	11/24/2008	11/25/2008	11/26/2008	12/1/2008		
	LF24-WS-018-D6.0	SW8082	11/24/2008	11/25/2008	11/26/2008	12/1/2008		
	LF24-WS-018-D6.0	SW8270C SIM	11/24/2008	11/25/2008	11/26/2008	11/29/2008		
	57663	LF24-CS-019-D5.0	SW6010B		12/2/2008	12/3/2008	12/4/2008	12/4/2008
		LF24-CS-019-D5.0	SW7471A		12/2/2008	12/3/2008	12/4/2008	12/4/2008
		LF24-CS-019-D5.0	SW8015-E		12/2/2008	12/3/2008	12/4/2008	12/4/2008
		LF24-CS-019-D5.0	SW8081		12/2/2008	12/3/2008	12/4/2008	12/4/2008
LF24-CS-019-D5.0		SW8082		12/2/2008	12/3/2008	12/4/2008	12/4/2008	
LF24-CS-019-D5.0		SW8270C SIM		12/2/2008	12/3/2008	12/4/2008	12/5/2008	
LF24-CS-119-D5.0		SW6010B		12/2/2008	12/3/2008	12/4/2008	12/4/2008	
LF24-CS-119-D5.0		SW7471A		12/2/2008	12/3/2008	12/4/2008	12/4/2008	
LF24-CS-119-D5.0		SW8015-E		12/2/2008	12/3/2008	12/4/2008	12/4/2008	

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date
APPF	57663	LF24-CS-119-D5.0	SW8081	12/2/2008	12/3/2008	12/4/2008	12/4/2008
		LF24-CS-119-D5.0	SW8082	12/2/2008	12/3/2008	12/4/2008	12/4/2008
		LF24-CS-119-D5.0	SW8270C SIM	12/2/2008	12/3/2008	12/4/2008	12/5/2008
		LF24-CS-119-D5.0MS	SW6010B	12/2/2008	12/3/2008	12/4/2008	12/4/2008
		LF24-CS-119-D5.0MS	SW7471A	12/2/2008	12/3/2008	12/4/2008	12/4/2008
		LF24-CS-119-D5.0SD	SW6010B	12/2/2008	12/3/2008	12/4/2008	12/4/2008
		LF24-CS-119-D5.0SD	SW7471A	12/2/2008	12/3/2008	12/4/2008	12/4/2008
	57713	LF24-BF023	SW6010B	12/10/2008	12/11/2008	12/12/2008	12/12/2008
		LF24-BF023	SW7471A	12/10/2008	12/11/2008	12/12/2008	12/12/2008
		LF24-BF023	SW8015-E	12/10/2008	12/11/2008	12/12/2008	12/12/2008
		LF24-BF023	SW8082	12/10/2008	12/11/2008	12/12/2008	12/12/2008
		LF24-BF023	SW8270C SIM	12/10/2008	12/11/2008	12/12/2008	12/15/2008
		LF24-BF023MS	SW6010B	12/10/2008	12/11/2008	12/12/2008	12/12/2008
		LF24-BF023MS	SW7471A	12/10/2008	12/11/2008	12/12/2008	12/12/2008
		LF24-BF023SD	SW6010B	12/10/2008	12/11/2008	12/12/2008	12/12/2008
	57764	LF24-BF023SD	SW7471A	12/10/2008	12/11/2008	12/12/2008	12/12/2008
		LF24-GRID9D-SP006	SW6010B	12/16/2008	12/17/2008	12/18/2008	12/18/2008
		LF24-GRID9D-SP007	SW6010B	12/16/2008	12/17/2008	12/18/2008	12/18/2008
		LF24-GRID9D-SP008	SW6010B	12/16/2008	12/17/2008	12/18/2008	12/18/2008
LF24-GRID9D-SP008MS		SW6010B	12/16/2008	12/17/2008	12/18/2008	12/18/2008	
LF24-GRID9D-SP008SD	SW6010B	12/16/2008	12/17/2008	12/18/2008	12/18/2008		
TALM	HRL0024	LF24-WS019-D6.0	SW1010	12/4/2008	12/4/2008		12/5/2008
		LF24-WS019-D6.0	SW6010B	12/4/2008	12/4/2008		12/8/2008
		LF24-WS019-D6.0	SW6010B	12/4/2008	12/4/2008	12/8/2008	12/8/2008
		LF24-WS019-D6.0	SW6010B	12/4/2008	12/4/2008	12/8/2008	12/11/2008
		LF24-WS019-D6.0	SW7470A	12/4/2008	12/4/2008		12/8/2008
		LF24-WS019-D6.0	SW7471A	12/4/2008	12/4/2008		12/5/2008
		LF24-WS019-D6.0	SW8270C	12/4/2008	12/4/2008		12/8/2008
		LF24-WS019-D6.0	SW9045	12/4/2008	12/4/2008		12/5/2008
		LF24-WS019-D6.0MS	SW6010B	12/4/2008	12/4/2008	12/8/2008	12/8/2008
		LF24-WS019-D6.0MS	SW6010B	12/4/2008	12/4/2008	12/8/2008	12/11/2008
		LF24-WS019-D6.0MS	SW7471A	12/4/2008	12/4/2008		12/5/2008
		LF24-WS019-D6.0MS	SW8270C	12/4/2008	12/4/2008		12/8/2008
		LF24-WS019-D6.0SD	SW6010B	12/4/2008	12/4/2008	12/8/2008	12/8/2008
		LF24-WS019-D6.0SD	SW6010B	12/4/2008	12/4/2008	12/8/2008	12/11/2008

TABLE 1
Sample Chronology – Data Summary

Laboratory	SDG	Sample ID	Method	Sample Date	Receive Date	Extract Date	Analysis Date
TALM	HRL0024	LF24-WS019-D6.0SD	SW7471A	12/4/2008	12/4/2008		12/5/2008
	HRL0088	LF24-GRID9D-SP001	SW6010B	12/12/2008	12/12/2008	12/12/2008	12/15/2008
		LF24-GRID9D-SP002	SW6010B	12/12/2008	12/12/2008	12/12/2008	12/15/2008
		LF24-GRID9D-SP003	SW6010B	12/12/2008	12/12/2008	12/12/2008	12/15/2008

TABLE 2

Sample Summary by Chain of Custody – Data Summary

CoC Number	Sample Date	Matrix	Sample ID / QAQC Type	SDG	Laboratory
999AA	12-Dec-08	SOIL	LF24-GRID9D-SP001 / N	HRL0088	TALM
			LF24-GRID9D-SP002 / N	HRL0088	TALM
			LF24-GRID9D-SP003 / N	HRL0088	TALM
999B	16-Dec-08	SOIL	LF24-GRID9D-SP006 / N	57764	APPF
			LF24-GRID9D-SP007 / N	57764	APPF
			LF24-GRID9D-SP008 / N	57764	APPF
			LF24-GRID9D-SP008MS / MS	57764	APPF
			LF24-GRID9D-SP008SD / SD	57764	APPF
999-HRL0024	04-Dec-08	SOIL	LF24-WS019-D6.0 / N	HRL0024	TALM
			LF24-WS019-D6.0MS / MS	HRL0024	TALM
			LF24-WS019-D6.0SD / SD	HRL0024	TALM
LF24-01	27-Aug-08	SOIL	LF24-BF001_0808 / N	56871	APPF
			LF24-BF002_0808 / N	56871	APPF
			LF24-BF003_0808 / N	56871	APPF
			LF24-BF003FD_0808 / FD	56871	APPF
			LF24-BF003FD_0808MS / MS	56871	APPF
			LF24-BF003FD_0808SD / SD	56871	APPF
			LF24-BF004_0808 / N	56871	APPF
			LF24-BF005_0808 / N	56871	APPF
			LF24-BF006_0808 / N	56871	APPF
			LF24-BF007_0808 / N	56871	APPF
			LF24-BF008_0808 / N	56871	APPF
			LF24-BF008_0808MS / MS	56871	APPF
			LF24-BF008_0808SD / SD	56871	APPF
LF24-02	03-Sep-08	SOIL	LF24-BF009_0908 / N	56913	APPF
			LF24-BF010_0908 / N	56913	APPF
			LF24-BF011_0908 / N	56913	APPF
			LF24-BF012_0908 / N	56913	APPF

TABLE 2

Sample Summary by Chain of Custody – Data Summary

CoC Number	Sample Date	Matrix	Sample ID / QAQC Type	SDG	Laboratory
LF24-02	03-Sep-08	SOIL	LF24-BF013_0908 / N	56913	APPF
			LF24-BF014_0908 / N	56913	APPF
			LF24-BF014_0908MS / MS	56913	APPF
			LF24-BF014_0908SD / SD	56913	APPF
			LF24-BF015_0908 / N	56913	APPF
			LF24-BF016_0908 / N	56913	APPF
			LF24-BF017_0908 / N	56913	APPF
			LF24-BF018_0908 / N	56913	APPF
			LF24-BF019_0908 / N	56913	APPF
			LF24-BF020_0908 / N	56913	APPF
			LF24-BF112_0908 / FD	56913	APPF
LF24-03	10-Dec-08	SOIL	LF24-BF023 / N	57713	APPF
			LF24-BF023MS / MS	57713	APPF
			LF24-BF023SD / SD	57713	APPF
LF24-CS-01	07-Oct-08	SOIL	LF24-CS-001-D-5.0 / N	57184	APPF
			LF24-CS-001-D-5.0MS / MS	57184	APPF
			LF24-CS-001-D-5.0SD / SD	57184	APPF
LF24-CS-02	14-Oct-08	SOIL	LF24-WS-009-D5.0 / N	57240	APPF
			LF24-WS-009-D5.0MS / MS	57240	APPF
			LF24-WS-009-D5.0SD / SD	57240	APPF
			LF24-WS-109-D5.0 / FD	57240	APPF
LF24-CS-03	15-Oct-08	SOIL	LF24-CS-002-D4.0 / N	57256	APPF
			LF24-CS-002-D4.0MS / MS	57256	APPF
			LF24-CS-002-D4.0SD / SD	57256	APPF
LF24-CS-04	17-Oct-08	SOIL	LF24-CS-003-D4.0 / N	57276	APPF
			LF24-CS-003-D4.0MS / MS	57276	APPF

TABLE 2

Sample Summary by Chain of Custody – Data Summary

CoC Number	Sample Date	Matrix	Sample ID / QAQC Type	SDG	Laboratory
LF24-CS-04	17-Oct-08	SOIL	LF24-CS-003-D4.0SD / SD	57276	APPF
LF24-CS-05	02-Dec-08	SOIL	LF24-CS-019-D5.0 / N	57663	APPF
			LF24-CS-119-D5.0 / FD	57663	APPF
			LF24-CS-119-D5.0MS / MS	57663	APPF
			LF24-CS-119-D5.0SD / SD	57663	APPF
LF24-WC-01	02-Oct-08	SOIL	LF24-WS-001-D6.0 / N	57137	APPF
			LF24-WS-002-D6.0 / N	57137	APPF
			LF24-WS-003-D6.0 / N	57137	APPF
LF24-WC-02	02-Oct-08	SOIL	LF24-WS-004-D4.0 / N	57148	APPF
			LF24-WS-005-D1.5 / N	57148	APPF
	03-Oct-08		LF24-WS-006-D3.0 / N	57148	APPF
			LF24-WS-007-D2.5 / N	57148	APPF
LF24-WC-03	08-Oct-08	SOIL	LF24-WS-008-D6.0 / N	57199_APPF	APPF
			LF24-WS-008-D6.0MS / MS	57199_APPF	APPF
			LF24-WS-008-D6.0SD / SD	57199_APPF	APPF
LF24-WC-04	22-Oct-08	SOIL	LF24-CS-004-D9.0 / N	57322	APPF
			LF24-CS-004-D9.0MS / MS	57322	APPF
			LF24-CS-004-D9.0SD / SD	57322	APPF
			LF24-WS-010-D5.0 / N	57322	APPF
			LF24-WS-010-D5.0MS / MS	57322	APPF
			LF24-WS-010-D5.0SD / SD	57322	APPF
LF24-WC-05	24-Oct-08	SOIL	LF24-CS-005-D6.0 / N	57363	APPF
			LF24-CS-005-D6.0MS / MS	57363	APPF
			LF24-CS-005-D6.0SD / SD	57363	APPF
			LF24-WS-011-D6.0 / N	57363	APPF

TABLE 2

Sample Summary by Chain of Custody – Data Summary

CoC Number	Sample Date	Matrix	Sample ID / QAQC Type	SDG	Laboratory
LF24-WC-05	24-Oct-08	SOIL	LF24-WS-011-D6.0MS / MS	57363	APPF
			LF24-WS-011-D6.0SD / SD	57363	APPF
LF24-WC-06	27-Oct-08	SOIL	LF24-CS-006-D8.0 / N	57387	APPF
			LF24-WS-012-D7.0 / N	57387	APPF
			LF24-WS-012-D7.0MS / MS	57387	APPF
			LF24-WS-012-D7.0SD / SD	57387	APPF
LF24-WC-07	29-Oct-08	SOIL	GRID7D-SP01-D5.0 / N	57403	APPF
			GRID7D-SP02-D5.0 / N	57403	APPF
			GRID7D-SP03-D5.0 / N	57403	APPF
			GRID7D-SP04-D5.0 / N	57403	APPF
			GRID7D-SP05-D5.0 / N	57403	APPF
			LF24-CS-007-D6.0 / N	57403	APPF
			LF24-CS-007-D6.0MS / MS	57403	APPF
			LF24-CS-007-D6.0SD / SD	57403	APPF
LF24-WC-08	06-Nov-08	SOIL	LF24-BF021 / N	57524	APPF
	10-Nov-08		LF24-BF022 / N	57524	APPF
			LF24-CS-008-D8.0 / N	57524	APPF
LF24-WC-09	12-Nov-08	SOIL	LF24-CS-009-D9.0 / N	57501	APPF
			LF24-CS-009-D9.0MS / MS	57501	APPF
			LF24-CS-009-D9.0SD / SD	57501	APPF
LF24-WC-10	14-Nov-08	SOIL	LF24-CS-010-D7.0 / N	57533	APPF
			LF24-CS-010-D7.0MS / MS	57533	APPF
			LF24-CS-010-D7.0SD / SD	57533	APPF
LF24-WC-11	18-Nov-08	SOIL	LF24-CS-011-D4.5 / N	57569	APPF
			LF24-CS-012-D3.5 / N	57569	APPF

TABLE 2

Sample Summary by Chain of Custody – Data Summary

CoC Number	Sample Date	Matrix	Sample ID / QAQC Type	SDG	Laboratory
LF24-WC-11	18-Nov-08	SOIL	LF24-CS-012-D3.5MS / MS	57569	APPF
			LF24-CS-012-D3.5SD / SD	57569	APPF
			LF24-CS-013-D3.5 / N	57569	APPF
LF24-WC-12	20-Nov-08	SOIL	LF24-WS-013-D3.0 / N	57583	APPF
			LF24-WS-013-D3.0MS / MS	57583	APPF
			LF24-WS-013-D3.0SD / SD	57583	APPF
LF24-WC-13	21-Nov-08	SOIL	LF24-CS-014-D10.0 / N	57598	APPF
			LF24-CS-015-D10.0 / N	57598	APPF
			LF24-CS-015-D10.0MS / MS	57598	APPF
			LF24-CS-015-D10.0SD / SD	57598	APPF
			LF24-WS-014-D3.0 / N	57598	APPF
			LF24-WS-014-D3.0MS / MS	57598	APPF
			LF24-WS-014-D3.0SD / SD	57598	APPF
			LF24-WS-015-D5.0 / N	57598	APPF
			LF24-WS-016-D5.0 / N	57598	APPF
			LF24-WS-016-D5.0MS / MS	57598	APPF
LF24-WS-016-D5.0SD / SD	57598	APPF			
LF24-WC-14	24-Nov-08	SOIL	LF24-CS-016-D4.0 / N	57612	APPF
			LF24-CS-016-D4.0MS / MS	57612	APPF
			LF24-CS-016-D4.0SD / SD	57612	APPF
			LF24-CS-017-D8.0 / N	57612	APPF
			LF24-CS-018-D9.0 / N	57612	APPF
			LF24-CS-117-D8.0 / FD	57612	APPF
			LF24-WS-017-D4.0 / N	57612	APPF
			LF24-WS-017-D4.0MS / MS	57612	APPF
			LF24-WS-017-D4.0SD / SD	57612	APPF
LF24-WS-018-D6.0 / N	57612	APPF			

TABLE 2

Sample Summary by Chain of Custody – Data Summary

CoC Number	Sample Date	Matrix	Sample ID / QAQC Type	SDG	Laboratory
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QAQC Type

- N = normal environmental sample
- FD = field duplicate
- MS = matrix spike
- SD = spike duplicate
- TB = trip blank
- EB = equipment blank
- AB = ambient blank
- FB = field blank

TABLE 3
Site Completeness by Analyte – Flagging Statistics

Matrix	Method	Analyte	Number of Samples		
SOIL					
SW6010B					
Aluminum			1		
		<i>Validation Flag Category:</i> Matrix	1	M	Flags (100.00%) for Matrix spike recovery greater than upper limit
		<i>Validation Flag Category:</i> Matrix	1	M	Flags (100.00%) for Matrix spike duplicate recovery criteria greater than upper limit
Antimony			1		
		<i>Validation Flag Category:</i> Matrix	1	UM	Flags (100.00%) for Matrix spike RPD criteria exceedance
		<i>Validation Flag Category:</i> Matrix	1	UM	Flags (100.00%) for Matrix spike duplicate recovery criteria less than lower limit
Arsenic			46		
		<i>Validation Flag Category:</i> Matrix	1	M	Flags (2.17%) for Matrix spike recovery greater than upper limit
		<i>Validation Flag Category:</i> Matrix	1	M	Flags (2.17%) for Matrix spike duplicate recovery criteria greater than upper limit
		<i>Validation Flag Category:</i> Matrix	1	J	Flags (2.17%) for Serial Dilution exceeded %D
Barium			46		
		<i>Validation Flag Category:</i> Matrix	1	M	Flags (2.17%) for Matrix spike RPD criteria exceedance
		<i>Validation Flag Category:</i> Matrix	2	M	Flags (4.35%) for Matrix spike recovery less than lower limit
		<i>Validation Flag Category:</i> Matrix	1	M	Flags (2.17%) for Matrix spike recovery greater than upper limit
		<i>Validation Flag Category:</i> Matrix	1	M	Flags (2.17%) for Matrix spike duplicate recovery criteria greater than upper limit
		<i>Validation Flag Category:</i> Matrix	6	J	Flags (13.04%) for Serial Dilution exceeded %D
Barium-TCLP			20		
		<i>Validation Flag Category:</i> Matrix	1	J	Flags (5.00%) for Serial Dilution exceeded %D
		<i>Validation Flag Category:</i> Matrix	1	J	Flags (5.00%) for Matrix spike duplicate recovery criteria greater than upper limit

TABLE 3
Site Completeness by Analyte – Flagging Statistics

Matrix	Method	Analyte	Number of Samples		
SOIL					
SW6010B					
Cadmium			46		
<i>Validation Flag Category:</i> Matrix			3	M	Flags (6.52%) for Matrix spike recovery less than lower limit
<i>Validation Flag Category:</i> Matrix			3	M	Flags (6.52%) for Matrix spike duplicate recovery criteria less than lower limit
<i>Validation Flag Category:</i> Matrix			1	J	Flags (2.17%) for Serial Dilution exceeded %D
<i>Validation Flag Category:</i> Matrix			1	J	Flags (2.17%) for Post-digestion spike below the %recovery LCL
Cadmium-TCLP			20		
<i>Validation Flag Category:</i> Matrix			1	J	Flags (5.00%) for Serial Dilution exceeded %D
<i>Validation Flag Category:</i> Matrix			1	J	Flags (5.00%) for Post-digestion spike below the %recovery LCL
<i>Validation Flag Category:</i> Matrix			1	M	Flags (5.00%) for Matrix spike recovery less than lower limit
<i>Validation Flag Category:</i> Matrix			1	J	Flags (5.00%) for Serial Dilution exceeded %D
Calcium			1		
<i>Validation Flag Category:</i> Matrix			1	M	Flags (100.00%) for Matrix spike recovery less than lower limit
<i>Validation Flag Category:</i> Matrix			1	M	Flags (100.00%) for Matrix spike duplicate recovery criteria greater than upper limit
Chromium			46		
<i>Validation Flag Category:</i> Matrix			7	J	Flags (15.22%) for Serial Dilution exceeded %D
Copper			1		
<i>Validation Flag Category:</i> Matrix			1	M	Flags (100.00%) for Matrix spike duplicate recovery criteria less than lower limit
Iron			1		
<i>Validation Flag Category:</i> Matrix			1	M	Flags (100.00%) for Matrix spike RPD criteria exceedance
<i>Validation Flag Category:</i> Matrix			1	M	Flags (100.00%) for Matrix spike recovery greater than upper limit
<i>Validation Flag Category:</i> Matrix			1	M	Flags (100.00%) for Matrix spike duplicate recovery criteria less than lower limit

TABLE 3
Site Completeness by Analyte – Flagging Statistics

Matrix	Method	Analyte	Number of Samples	
SOIL				
SW6010B				
Lead			69	
Validation Flag Category: Matrix			3	UM Flags (4.35%) for Matrix spike recovery less than lower limit
Validation Flag Category: Matrix			2	UM Flags (2.90%) for Matrix spike duplicate recovery criteria less than lower limit
Validation Flag Category: Matrix			1	M Flags (1.45%) for Matrix spike RPD criteria exceedance
Validation Flag Category: Matrix			3	M Flags (4.35%) for Matrix spike recovery less than lower limit
Validation Flag Category: Matrix			3	M Flags (4.35%) for Matrix spike duplicate recovery criteria less than lower limit
Validation Flag Category: Matrix			1	M Flags (1.45%) for Matrix spike duplicate recovery criteria greater than upper limit
Validation Flag Category: Matrix			1	J Flags (1.45%) for Serial Dilution exceeded %D
Validation Flag Category: Matrix			1	J Flags (1.45%) for Post-digestion spike above the %recovery UCL
Lead-TCLP			20	
Validation Flag Category: Matrix			1	J Flags (5.00%) for Serial Dilution exceeded %D
Validation Flag Category: Matrix			1	J Flags (5.00%) for Post-digestion spike below the %recovery LCL
Validation Flag Category: Matrix			1	M Flags (5.00%) for Matrix spike recovery less than lower limit
Validation Flag Category: Matrix			2	J Flags (10.00%) for Serial Dilution exceeded %D
Magnesium			1	
Validation Flag Category: Matrix			1	M Flags (100.00%) for Matrix spike recovery less than lower limit
Manganese			1	
Validation Flag Category: Matrix			1	M Flags (100.00%) for Matrix spike recovery less than lower limit
Selenium			46	
Validation Flag Category: Matrix			1	UM Flags (2.17%) for Matrix spike recovery less than lower limit
Validation Flag Category: Matrix			1	UM Flags (2.17%) for Matrix spike recovery greater than upper limit
Validation Flag Category: Matrix			1	UM Flags (2.17%) for Matrix spike duplicate recovery criteria greater than upper limit

TABLE 3
Site Completeness by Analyte – Flagging Statistics

Matrix	Method	Analyte	Number of Samples	
SOIL				
SW6010B				
		Silver	46	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (2.17%) for Matrix spike recovery less than lower limit
		<i>Validation Flag Category:</i> Matrix	1	UJ Flags (2.17%) for Post-digestion spike below the %recovery LCL
		<i>Validation Flag Category:</i> Matrix	2	J Flags (4.35%) for Serial Dilution exceeded %D
		Silver-TCLP	20	
		<i>Validation Flag Category:</i> Matrix	1	J Flags (5.00%) for Post-digestion spike above the %recovery UCL
		Sodium	1	
		<i>Validation Flag Category:</i> Matrix	1	M Flags (100.00%) for Matrix spike recovery less than lower limit
		Thallium	1	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (100.00%) for Matrix spike recovery less than lower limit
		Zinc	1	
		<i>Validation Flag Category:</i> Matrix	1	M Flags (100.00%) for Matrix spike recovery greater than upper limit
SW7471A				
		Mercury	46	
		<i>Validation Flag Category:</i> Matrix	1	M Flags (2.17%) for Matrix spike recovery greater than upper limit
SW8015-E				
		TPH-Diesel	61	
		<i>Validation Flag Category:</i> Matrix	1	M Flags (1.64%) for Matrix spike recovery less than lower limit
		<i>Validation Flag Category:</i> Matrix	1	M Flags (1.64%) for Matrix spike duplicate recovery criteria less than lower limit
SW8081				

TABLE 3
Site Completeness by Analyte – Flagging Statistics

Matrix	Method	Analyte	Number of Samples		
SOIL					
SW8081					
		Aldrin		29	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (3.45%)	for Matrix spike recovery greater than upper limit
		g-BHC (Lindane)		29	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (3.45%)	for Matrix spike recovery greater than upper limit
SW8151A					
		2,4-D		20	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (5.00%)	for Matrix spike recovery less than lower limit
		Dalapon		20	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (5.00%)	for Matrix spike recovery less than lower limit
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (5.00%)	for Matrix spike duplicate recovery criteria less than lower limit
		Dicamba		20	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (5.00%)	for Matrix spike recovery less than lower limit
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (5.00%)	for Matrix spike duplicate recovery criteria less than lower limit
		Dichloroprop		20	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (5.00%)	for Matrix spike recovery less than lower limit
		MCPA		20	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (5.00%)	for Matrix spike recovery less than lower limit
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (5.00%)	for Matrix spike duplicate recovery criteria less than lower limit
SW8270C					

TABLE 3
Site Completeness by Analyte – Flagging Statistics

Matrix	Method	Analyte	Number of Samples	
SOIL				
SW8270C				
		Benzo (a) pyrene	1	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (100.00%) for Matrix spike recovery greater than upper limit
		Benzo (k) fluoranthene	1	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (100.00%) for Matrix spike recovery less than lower limit
		Fluoranthene	1	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (100.00%) for Matrix spike recovery less than lower limit
		Pyrene	1	
		<i>Validation Flag Category:</i> Matrix	1	UM Flags (100.00%) for Matrix spike recovery less than lower limit
SW8270C SIM				
		Benzo (a) anthracene	61	
		<i>Validation Flag Category:</i> Matrix	1	M Flags (1.64%) for Matrix spike RPD criteria exceedance
		<i>Validation Flag Category:</i> Matrix	1	M Flags (1.64%) for Matrix spike duplicate recovery criteria greater than upper limit
		Benzo (a) pyrene	61	
		<i>Validation Flag Category:</i> Matrix	1	M Flags (1.64%) for Matrix spike RPD criteria exceedance
		<i>Validation Flag Category:</i> Matrix	1	M Flags (1.64%) for Matrix spike duplicate recovery criteria greater than upper limit
		Benzo (b) fluoranthene	61	
		<i>Validation Flag Category:</i> Matrix	1	M Flags (1.64%) for Matrix spike RPD criteria exceedance
		<i>Validation Flag Category:</i> Matrix	1	M Flags (1.64%) for Matrix spike duplicate recovery criteria greater than upper limit

TABLE 3
Site Completeness by Analyte – Flagging Statistics

Matrix	Method	Analyte	Number of Samples	
SOIL				
SW8270C SIM				
Benzo (g,h,i) perylene			61	
		<i>Validation Flag Category: Matrix</i>	1	M Flags (1.64%) for Matrix spike RPD criteria exceedance
		<i>Validation Flag Category: Matrix</i>	1	M Flags (1.64%) for Matrix spike duplicate recovery criteria greater than upper limit
Benzo (k) fluoranthene			61	
		<i>Validation Flag Category: Matrix</i>	1	M Flags (1.64%) for Matrix spike RPD criteria exceedance
		<i>Validation Flag Category: Matrix</i>	1	M Flags (1.64%) for Matrix spike duplicate recovery criteria greater than upper limit
Chrysene			61	
		<i>Validation Flag Category: Matrix</i>	1	M Flags (1.64%) for Matrix spike RPD criteria exceedance
		<i>Validation Flag Category: Matrix</i>	1	M Flags (1.64%) for Matrix spike duplicate recovery criteria greater than upper limit
Dibenzo (a,h) anthracene			61	
		<i>Validation Flag Category: Matrix</i>	1	M Flags (1.64%) for Matrix spike RPD criteria exceedance
		<i>Validation Flag Category: Matrix</i>	1	M Flags (1.64%) for Matrix spike duplicate recovery criteria greater than upper limit
Indeno (1,2,3-c,d) pyrene			61	
		<i>Validation Flag Category: Matrix</i>	1	M Flags (1.64%) for Matrix spike RPD criteria exceedance
		<i>Validation Flag Category: Matrix</i>	1	M Flags (1.64%) for Matrix spike duplicate recovery criteria greater than upper limit

TABLE 3

Site Completeness by Analyte – Flagging Statistics

Matrix	Method	Analyte	Number of Samples
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Note: The total number of validation flags may exceed the actual number of samples if multiple flags were applied to the same sample. Consequently, the percentage of total flags (flags applied/number of samples) may exceed 100 percent.

* The most severe flag for each analyte becomes the final validation flag.

Qualifier Description:

- J = The analyte was positively identified, the quantitation is an estimate.
- M = A matrix effect was present.
- UJ = The analyte was not detected, the quantitation is an estimate.
- UM = Same as "U", and a matrix effect present.

TABLE 4
Matrix Spike Precision/Accuracy – Qualified Data

Method	Matrix	Sample ID	Analyte	Result	MS/MSD Qualifier*	MS Recovery	Criteria
SW6010B	SOIL		Aluminum				
		LF24-WS019-D6.0		4890 MG/KG	M	%R = 139 LCL=79 UCL=12C	MS>UCL
		LF24-WS019-D6.0		4890 MG/KG	M	%R = 146 LCL=79 UCL=12C	SD>UCL
SW6010B	SOIL		Antimony				
		LF24-WS019-D6.0		7.69 MG/KG	UM	MSRPD = 41.05 Limit =30	MSRPD
		LF24-WS019-D6.0		7.69 MG/KG	UM	%R = 68 LCL=80 UCL=120	SD<LCL
SW6010B	SOIL		Arsenic				
		LF24-BF008_0808		3.8 MG/KG	M	%R = 133 LCL=80 UCL=12C	MS>UCL
		LF24-BF008_0808		3.8 MG/KG	M	%R = 133 LCL=80 UCL=12C	SD>UCL
		LF24-BF014_0908		10.8 MG/KG	J	31.8% D	SerDil
SW6010B	SOIL		Barium				
		LF24-BF008_0808		72.7 MG/KG	M	%R = 147 LCL=80 UCL=12C	MS>UCL
		LF24-BF008_0808		72.7 MG/KG	M	%R = 134 LCL=80 UCL=12C	SD>UCL
		LF24-BF008_0808		72.7 MG/KG	J	15.1% D	SerDil
		LF24-BF014_0908		11.5 MG/KG	J	16.5% D	SerDil
		LF24-CS-001-D-5.0		6.4 MG/KG	J	22.1% D	SerDil
		LF24-CS-007-D6.0		15.5 MG/KG	J	16.2% D	SerDil
		LF24-CS-012-D3.5		5.4 MG/KG	M	%R = 79 LCL=80 UCL=120	MS<LCL
		LF24-CS-012-D3.5		5.4 MG/KG	J	31.2% D	SerDil
		LF24-CS-016-D4.0		5.2 MG/KG	J	12.9% D	SerDil
		LF24-WS019-D6.0		54.6 MG/KG	M	%R = 61 LCL=80 UCL=120	MS<LCL
		LF24-WS019-D6.0		54.6 MG/KG	M	MSRPD = 32.1 Limit =30	MSRPD
SW6010B	SOIL		Barium-TCLP				
		LF24-WS-013-D3.0		0.38 MG/L	J	%R = 11.8 LCL=80 UCL=12C	SD>UCL
		LF24-WS-017-D4.0		0.5 MG/L	J	11.4% D	SerDil
SW6010B	SOIL		Cadmium				
		LF24-CS-007-D6.0		0.45 MG/KG	M	%R = 74 LCL=80 UCL=120	MS<LCL
		LF24-CS-007-D6.0		0.45 MG/KG	M	%R = 73.4 LCL=80 UCL=12C	SD<LCL
		LF24-CS-012-D3.5		0.25 MG/KG	M	%R = 71 LCL=80 UCL=120	MS<LCL
		LF24-CS-012-D3.5		0.25 MG/KG	J	73.8% Rec	PDS<LCL
		LF24-CS-012-D3.5		0.25 MG/KG	M	%R = 73.8 LCL=80 UCL=12C	SD<LCL
		LF24-CS-015-D10.0		1.8 MG/KG	M	%R = 76.4 LCL=80 UCL=12C	MS<LCL
		LF24-CS-015-D10.0		1.8 MG/KG	M	%R = 78.7 LCL=80 UCL=12C	SD<LCL

TABLE 4
Matrix Spike Precision/Accuracy – Qualified Data

Method	Matrix	Sample ID	Analyte	Result	MS/MSD Qualifier*	MS Recovery	Criteria
SW6010B	SOIL	LF24-CS-015-D10.0	Cadmium-TCLP	1.8 MG/KG	J	29.4% D	SerDil
		LF24-WS-012-D7.0		0.044 MG/L	J	74% Rec	PDS<LCL
		LF24-WS-012-D7.0		0.044 MG/L	J	12.1% D	SerDil
		LF24-WS-013-D3.0		0.01 MG/L	M	%R = 78 LCL=80 UCL=120	MS<LCL
SW6010B	SOIL	LF24-WS-017-D4.0	Calcium	0.03 MG/L	J	18.9% D	SerDil
		LF24-WS019-D6.0		9040 MG/KG	M	R=0 LCL=80 UCL=120 4X RUL	MS<LCL
		LF24-WS019-D6.0		9040 MG/KG	M	t= 201 LCL=80 UCL=120 4X RU	SD>UCL
SW6010B	SOIL	LF24-BF014_0908	Chromium	26.4 MG/KG	J	21.1% D	SerDil
		LF24-CS-001-D-5.0		7.1 MG/KG	J	33.4% D	SerDil
		LF24-CS-003-D4.0		8.7 MG/KG	J	14.2% D	SerDil
		LF24-CS-010-D7.0		8.7 MG/KG	J	25.2% D	SerDil
		LF24-CS-012-D3.5		6.8 MG/KG	J	31% D	SerDil
		LF24-CS-015-D10.0		19.8 MG/KG	J	14.1% D	SerDil
		LF24-CS-016-D4.0		8.8 MG/KG	J	11.4% D	SerDil
		SW6010B		SOIL	Copper		
SW6010B	SOIL	LF24-WS019-D6.0	Iron	154 MG/KG	M	%R = 77 LCL=80 UCL=120	SD<LCL
		LF24-WS019-D6.0		2790 MG/KG	M	%R = 159 LCL=80 UCL=120	MS>UCL
SW6010B	SOIL	LF24-WS019-D6.0	Lead	2790 MG/KG	M	MSRPD = 33.72 Limit =30	MSRPD
		LF24-WS019-D6.0		2790 MG/KG	M	%R = 10 LCL=80 UCL=120	SD<LCL
		LF24-CS-001-D-5.0		0.18 MG/KG	UM	%R = 79.1 LCL=80 UCL=120	MS<LCL
SW6010B	SOIL	LF24-CS-001-D-5.0	Lead	0.18 MG/KG	UM	%R = 77 LCL=80 UCL=120	SD<LCL
		LF24-CS-002-D4.0		0.18 MG/KG	UM	%R = 76.9 LCL=80 UCL=120	MS<LCL
		LF24-CS-007-D6.0		0.18 MG/KG	UM	%R = 72.2 LCL=80 UCL=120	MS<LCL
		LF24-CS-007-D6.0		0.18 MG/KG	UM	%R = 72.6 LCL=80 UCL=120	SD<LCL
		LF24-CS-012-D3.5		5.6 MG/KG	M	%R = 71.8 LCL=80 UCL=120	MS<LCL
		LF24-CS-012-D3.5		5.6 MG/KG	M	%R = 78.8 LCL=80 UCL=120	SD<LCL
		LF24-CS-015-D10.0		13.6 MG/KG	M	%R = 79.7 LCL=80 UCL=120	MS<LCL
		LF24-CS-015-D10.0		13.6 MG/KG	M	%R = 77.8 LCL=80 UCL=120	SD<LCL

TABLE 4
Matrix Spike Precision/Accuracy – Qualified Data

Method	Matrix	Sample ID	Analyte	Result	MS/MSD Qualifier*	MS Recovery	Criteria
		LF24-GRID9D-SP008		665 MG/KG	M	%R = -105 LCL=80 UCL=120	MS<LCL
		LF24-GRID9D-SP008		665 MG/KG	J	137% Rec	PDS>UCL
		LF24-GRID9D-SP008		665 MG/KG	M	%R = -158 LCL=80 UCL=120	SD<LCL
		LF24-GRID9D-SP008		665 MG/KG	J	40.8% D	SerDil
		LF24-WS019-D6.0		42.5 MG/KG	M	MSRPD = 44.36 Limit =30	MSRPD
		LF24-WS019-D6.0		42.5 MG/KG	M	%R = 170 LCL=80 UCL=120	SD>UCL
SW6010B	SOIL		Lead-TCLP				
		LF24-WS-012-D7.0		0.29 MG/L	J	72% Rec	PDS<LCL
		LF24-WS-012-D7.0		0.29 MG/L	J	28.9% D	SerDil
		LF24-WS-013-D3.0		0.43 MG/L	M	%R = 76 LCL=80 UCL=120	MS<LCL
		LF24-WS-013-D3.0		0.43 MG/L	J	21.2% D	SerDil
		LF24-WS-017-D4.0		0.16 MG/L	J	32% D	SerDil
SW6010B	SOIL		Magnesium				
		LF24-WS019-D6.0		1430 MG/KG	M	%R = 60 LCL=80 UCL=120	MS<LCL
SW6010B	SOIL		Manganese				
		LF24-WS019-D6.0		78.7 MG/KG	M	%R = 65 LCL=80 UCL=120	MS<LCL
SW6010B	SOIL		Selenium				
		LF24-BF008_0808		0.24 MG/KG	UM	%R = 131 LCL=80 UCL=120	MS>UCL
		LF24-BF008_0808		0.24 MG/KG	UM	%R = 130 LCL=80 UCL=120	SD>UCL
		LF24-CS-012-D3.5		0.48 MG/KG	UM	%R = 75 LCL=80 UCL=120	MS<LCL
SW6010B	SOIL		Silver				
		LF24-CS-001-D-5.0		3.9 MG/KG	J	13.3% D	SerDil
		LF24-CS-002-D4.0		5.3 MG/KG	J	12.9% D	SerDil
		LF24-CS-012-D3.5		0.08 MG/KG	UJ	73.6% Rec	PDS<LCL
		LF24-WS019-D6.0		3.85 MG/KG	UM	%R = 76 LCL=80 UCL=120	MS<LCL
SW6010B	SOIL		Silver-TCLP				
		LF24-WS-002-D6.0		0.0066 MG/L	J	128% Rec	PDS>UCL
SW6010B	SOIL		Sodium				
		LF24-WS019-D6.0		2710 MG/KG	M	%R = 75 LCL=80 UCL=120	MS<LCL
SW6010B	SOIL		Thallium				
		LF24-WS019-D6.0		15.4 MG/KG	UM	%R = 71 LCL=80 UCL=120	MS<LCL
SW6010B	SOIL		Zinc				

TABLE 4
Matrix Spike Precision/Accuracy – Qualified Data

Method	Matrix	Sample ID	Analyte	Result	MS/MSD Qualifier*	MS Recovery	Criteria
SW7471A	SOIL	LF24-WS019-D6.0	Mercury	154 MG/KG	M	%R = NR LCL=80 UCL=120	MS>UCL
SW8015-E	SOIL	LF24-WS019-D6.0		0.116 MG/KG	M	%R = 130 LCL=80 UCL=120	MS>UCL
SW8081	SOIL	LF24-WS-017-D4.0	TPH-Diesel	7.2 MG/KG	M	%R = 36 LCL=51 UCL=153	MS<LCL
		LF24-WS-017-D4.0		7.2 MG/KG	M	%R = 32.6 LCL=51 UCL=153	SD<LCL
SW8081	SOIL	LF24-CS-016-D4.0	Aldrin	0.0014 MG/KG	UM	%R = 122 LCL=47 UCL=120	MS>UCL
SW8081	SOIL	LF24-CS-016-D4.0	g-BHC (Lindane)	0.0009 MG/KG	UM	%R = 129 LCL=59 UCL=120	MS>UCL
SW8151A	SOIL	LF24-CS-016-D4.0	2,4-D	0.08 MG/KG	UM	%R = 31 LCL=32 UCL=131	MS<LCL
SW8151A	SOIL	LF24-BF014_0908	Dalapon	0.12 MG/KG	UM	%R = 1.7 LCL=22 UCL=125	MS<LCL
SW8151A	SOIL	LF24-BF014_0908		0.12 MG/KG	UM	%R = 1.9 LCL=22 UCL=125	SD<LCL
SW8151A	SOIL	LF24-BF014_0908	Dicamba	0.01 MG/KG	UM	%R = 3.6 LCL=56 UCL=120	MS<LCL
SW8151A	SOIL	LF24-BF014_0908		0.01 MG/KG	UM	%R = 3.9 LCL=56 UCL=120	SD<LCL
SW8151A	SOIL	LF24-BF014_0908	Dichloroprop	0.05 MG/KG	UM	%R = 71.3 LCL=72 UCL=140	MS<LCL
SW8151A	SOIL	LF24-BF014_0908		MCPA	3.75 MG/KG	UM	%R = 57.1 LCL=65 UCL=120
SW8270C	SOIL	LF24-BF014_0908	Benzo (a) pyrene	3.75 MG/KG	UM	%R = 57.5 LCL=65 UCL=120	SD<LCL
SW8270C	SOIL	LF24-WS019-D6.0	Benzo (k) fluoranthene	3.26 MG/KG	UM	%R = 122 LCL=45 UCL=120	MS>UCL
SW8270C	SOIL	LF24-WS019-D6.0		3.26 MG/KG	UM	%R = 26 LCL=50 UCL=130	MS<LCL
SW8270C	SOIL	LF24-WS019-D6.0	Fluoranthene	3.26 MG/KG	UM	%R = 31 LCL=60 UCL=120	MS<LCL
SW8270C	SOIL	LF24-WS019-D6.0	Pyrene	3.26 MG/KG	UM	%R = 25 LCL=60 UCL=120	MS<LCL
SW8270C	SOIL	LF24-WS019-D6.0		3.26 MG/KG	UM	%R = 25 LCL=60 UCL=120	MS<LCL

TABLE 4
Matrix Spike Precision/Accuracy – Qualified Data

Method	Matrix	Sample ID	Analyte	Result	MS/MSD Qualifier*	MS Recovery	Criteria
SW8270C SIM	SOIL		Benzo (a) anthracene				
		LF24-WS-017-D4.0		36 UG/KG	M	MSRPD = 49.48 Limit =30	MSRPD
		LF24-WS-017-D4.0		36 UG/KG	M	%R = 169 LCL=31 UCL=14€	SD>UCL
SW8270C SIM	SOIL		Benzo (a) pyrene				
		LF24-WS-017-D4.0		27 UG/KG	M	MSRPD = 38.76 Limit =30	MSRPD
		LF24-WS-017-D4.0		27 UG/KG	M	%R = 135 LCL=28 UCL=12€	SD>UCL
SW8270C SIM	SOIL		Benzo (b) fluoranthene				
		LF24-WS-017-D4.0		140 UG/KG	M	MSRPD = 83.87 Limit =30	MSRPD
		LF24-WS-017-D4.0		140 UG/KG	M	%R = 330 LCL=30 UCL=13€	SD>UCL
SW8270C SIM	SOIL		Benzo (g,h,i) perylene				
		LF24-WS-017-D4.0		120 UG/KG	M	MSRPD = 57.03 Limit =30	MSRPD
		LF24-WS-017-D4.0		120 UG/KG	M	%R = 280 LCL=21 UCL=14€	SD>UCL
SW8270C SIM	SOIL		Benzo (k) fluoranthene				
		LF24-WS-017-D4.0		96 UG/KG	M	MSRPD = 65.92 Limit =30	MSRPD
		LF24-WS-017-D4.0		96 UG/KG	M	%R = 188 LCL=42 UCL=12€	SD>UCL
SW8270C SIM	SOIL		Chrysene				
		LF24-WS-017-D4.0		37 UG/KG	M	MSRPD = 64.66 Limit =30	MSRPD
		LF24-WS-017-D4.0		37 UG/KG	M	%R = 176 LCL=39 UCL=134	SD>UCL
SW8270C SIM	SOIL		Dibenzo (a,h) anthracene				
		LF24-WS-017-D4.0		30 UG/KG	M	MSRPD = 35.86 Limit =30	MSRPD
		LF24-WS-017-D4.0		30 UG/KG	M	%R = 165 LCL=30 UCL=13€	SD>UCL
SW8270C SIM	SOIL		Indeno (1,2,3-c,d) pyrene				
		LF24-WS-017-D4.0		97 UG/KG	M	MSRPD = 62.4 Limit =30	MSRPD
		LF24-WS-017-D4.0		97 UG/KG	M	%R = 287 LCL=17 UCL=164	SD>UCL

TABLE 4
Matrix Spike Precision/Accuracy – Qualified Data

Method	Matrix	Sample ID	Analyte	Result	MS/MSD Qualifier*	MS Recovery	Criteria
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* The most severe flag for each analyte becomes the final validation flag.

Qualifier Description:

- J = The analyte was positively identified, the quantitation is an estimate.
- M = A matrix effect was present.
- UJ = The analyte was not detected, the quantitation is an estimate.
- UM = Same as "U", and a matrix effect present.

Criteria:

- MS<LCL = Matrix spike recovery less than lower limit
- MS>UCL = Matrix spike recovery greater than upper limit
- MSRPD = Matrix spike RPD criteria exceedance
- PDS<LCL = Post-digestion spike below the %recovery LCL
- PDS>UCL = Post-digestion spike above the %recovery UCL
- SD<LCL = Matrix spike duplicate recovery criteria less than lower limit
- SD>UCL = Matrix spike duplicate recovery criteria greater than upper limit
- SerDil = Serial Dilution exceeded %D

TABLE 5

Site Completeness by Analyte – Qualified Data

Method	Analyte	Units	Number of Occurrences							Contractor R Flags	Total R Flags	Contractor Percent Completeness	Overall Percent Completeness
			Analyses	Detects	Non- detects	Blank Flags	J Flags	M Flags					
SW1010	Flammability		1		1							100	100
SW6010B	Aluminum	MG/KG	1	1					1			100	100
SW6010B	Antimony	MG/KG	1		1				1			100	100
SW6010B	Arsenic	MG/KG	46	45	1			1	1			100	100
SW6010B	Barium	MG/KG	46	46				4	3			100	100
SW6010B	Beryllium	MG/KG	1		1							100	100
SW6010B	Cadmium	MG/KG	46	44	2				3			100	100
SW6010B	Calcium	MG/KG	1	1					1			100	100
SW6010B	Chromium	MG/KG	46	46				7				100	100
SW6010B	Cobalt	MG/KG	1		1							100	100
SW6010B	Copper	MG/KG	1	1					1			100	100
SW6010B	Iron	MG/KG	1	1					1			100	100
SW6010B	Lead	MG/KG	69	41	28				9			100	100
SW6010B	Magnesium	MG/KG	1	1					1			100	100
SW6010B	Manganese	MG/KG	1	1					1			100	100
SW6010B	Molybdenum	MG/KG	1		1							100	100
SW6010B	Nickel	MG/KG	1	1								100	100
SW6010B	Potassium	MG/KG	1	1								100	100
SW6010B	Selenium	MG/KG	46	5	41				2			100	100
SW6010B	Silver	MG/KG	46	20	26			3	1			100	100
SW6010B	Sodium	MG/KG	1	1					1			100	100
SW6010B	Thallium	MG/KG	1		1				1			100	100
SW6010B	Vanadium	MG/KG	1		1							100	100
SW6010B	Zinc	MG/KG	1	1					1			100	100
SW6010B	Arsenic-TCLP	MG/L	20	16	4							100	100
SW6010B	Barium-TCLP	MG/L	20	19	1			2				100	100
SW6010B	Cadmium-TCLP	MG/L	20	17	3			2	1			100	100
SW6010B	Chromium-TCLP	MG/L	20	8	12							100	100
SW6010B	Lead-TCLP	MG/L	20	13	7			2	1			100	100

TABLE 5

Site Completeness by Analyte – Qualified Data

Method	Analyte	Units	Analyses	Number of Occurrences						Contractor R Flags	Total R Flags	Contractor Percent Completeness	Overall Percent Completeness
				Detects	Non- detects	Blank Flags	J Flags	M Flags					
SW6010B	Selenium-TCLP	MG/L	20	6	14						100	100	
SW6010B	Silver-TCLP	MG/L	20	12	8		1				100	100	
SW7470A	Mercury-TCLP	MG/L	20	3	17						100	100	
SW7471A	Mercury	MG/KG	46	29	17			1			100	100	
SW8015-E	TPH-Diesel	MG/KG	61	18	43		5	1			100	100	
SW8081	4,4-DDD	MG/KG	29	1	28						100	100	
SW8081	4,4-DDE	MG/KG	29		29						100	100	
SW8081	4,4-DDT	MG/KG	29	1	28						100	100	
SW8081	a-BHC	MG/KG	29		29						100	100	
SW8081	a-Chlordane	MG/KG	29		29						100	100	
SW8081	Aldrin	MG/KG	29		29			1			100	100	
SW8081	b-BHC	MG/KG	29		29						100	100	
SW8081	d-BHC	MG/KG	29		29						100	100	
SW8081	Dieldrin	MG/KG	29		29						100	100	
SW8081	Endosulfan I	MG/KG	29		29						100	100	
SW8081	Endosulfan II	MG/KG	29		29						100	100	
SW8081	Endosulfan Sulfate	MG/KG	29		29						100	100	
SW8081	Endrin	MG/KG	29	1	28						100	100	
SW8081	Endrin Aldehyde	MG/KG	29		29						100	100	
SW8081	g-BHC (Lindane)	MG/KG	29		29			1			100	100	
SW8081	g-Chlordane	MG/KG	29		29						100	100	
SW8081	Heptachlor	MG/KG	29		29						100	100	
SW8081	Heptachlor Epoxide	MG/KG	29		29						100	100	
SW8081	Methoxychlor	MG/KG	29		29						100	100	
SW8081	Toxaphene	MG/KG	29		29						100	100	
SW8082	Aroclor-1016	MG/KG	64		64						100	100	
SW8082	Aroclor-1221	MG/KG	64		64						100	100	
SW8082	Aroclor-1232	MG/KG	64		64						100	100	
SW8082	Aroclor-1242	MG/KG	64		64						100	100	

TABLE 5

Site Completeness by Analyte – Qualified Data

Method	Analyte	Units	Analyses	Number of Occurrences						Contractor R Flags	Total R Flags	Contractor Percent Completeness	Overall Percent Completeness
				Detects	Non- detects	Blank Flags	J Flags	M Flags					
SW8082	Aroclor-1248	MG/KG	64		64						100	100	
SW8082	Aroclor-1254	MG/KG	64	1	63						100	100	
SW8082	Aroclor-1260	MG/KG	64	2	62						100	100	
SW8151A	2,4,5-T	MG/KG	20		20						100	100	
SW8151A	2,4,5-TP (Silvex)	MG/KG	20		20						100	100	
SW8151A	2,4-D	MG/KG	20		20			1			100	100	
SW8151A	2,4-DB	MG/KG	20		20						100	100	
SW8151A	Dalapon	MG/KG	20		20			1			100	100	
SW8151A	Dicamba	MG/KG	20		20			1			100	100	
SW8151A	Dichloroprop	MG/KG	20		20			1			100	100	
SW8151A	Dinoseb	MG/KG	20		20						100	100	
SW8151A	MCPA	MG/KG	20		20			1			100	100	
SW8151A	MCPP	MG/KG	20		20						100	100	
SW8270C	1,2,4-Trichlorobenzene	MG/KG	1		1						100	100	
SW8270C	1,2-DCB	MG/KG	1		1						100	100	
SW8270C	1,3-DCB	MG/KG	1		1						100	100	
SW8270C	1,4-DCB	MG/KG	1		1						100	100	
SW8270C	2,2'-Oxybis(1-Chloro)Propane	MG/KG	1		1						100	100	
SW8270C	2,4,5-Trichlorophenol	MG/KG	1		1						100	100	
SW8270C	2,4,6-Trichlorophenol	MG/KG	1		1						100	100	
SW8270C	2,4-Dichlorophenol	MG/KG	1		1						100	100	
SW8270C	2,4-Dimethylphenol	MG/KG	1		1						100	100	
SW8270C	2,4-Dinitrophenol	MG/KG	1		1						100	100	
SW8270C	2,4-Dinitrotoluene	MG/KG	1		1						100	100	
SW8270C	2,6-Dinitrotoluene	MG/KG	1		1						100	100	
SW8270C	2-Chloronaphthalene	MG/KG	1		1						100	100	
SW8270C	2-Chlorophenol	MG/KG	1		1						100	100	
SW8270C	2-Methylnaphthalene	MG/KG	1		1						100	100	
SW8270C	2-Methylphenol (o-Cresol)	MG/KG	1		1						100	100	

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Method	Analyte	Units	Analyses	Detects	Number of Occurrences					Contractor R Flags	Total R Flags	Contractor Percent Completeness	Overall Percent Completeness
					Non- detects	Blank Flags	J Flags	M Flags					
SW8270C	2-Nitroaniline	MG/KG	1		1							100	100
SW8270C	2-Nitrophenol	MG/KG	1		1							100	100
SW8270C	3,3'-Dichlorobenzidine	MG/KG	1		1							100	100
SW8270C	3-Nitroaniline	MG/KG	1		1							100	100
SW8270C	4,6-Dinitro-2-methylphenol	MG/KG	1		1							100	100
SW8270C	4-Bromophenyl phenyl ether	MG/KG	1		1							100	100
SW8270C	4-Chloro-3-methylphenol	MG/KG	1		1							100	100
SW8270C	4-Chloroaniline	MG/KG	1		1							100	100
SW8270C	4-Chlorophenyl phenyl ether	MG/KG	1		1							100	100
SW8270C	4-Nitroaniline	MG/KG	1		1							100	100
SW8270C	4-Nitrophenol	MG/KG	1		1							100	100
SW8270C	Acenaphthene	MG/KG	1		1							100	100
SW8270C	Acenaphthylene	MG/KG	1		1							100	100
SW8270C	Anthracene	MG/KG	1		1							100	100
SW8270C	Benzo (a) anthracene	MG/KG	1		1							100	100
SW8270C	Benzo (a) pyrene	MG/KG	1		1				1			100	100
SW8270C	Benzo (b) fluoranthene	MG/KG	1		1							100	100
SW8270C	Benzo (g,h,i) perylene	MG/KG	1		1							100	100
SW8270C	Benzo (k) fluoranthene	MG/KG	1		1				1			100	100
SW8270C	Benzoic acid	MG/KG	1		1							100	100
SW8270C	Benzyl alcohol	MG/KG	1		1							100	100
SW8270C	Benzyl Butyl Phthalate	MG/KG	1		1							100	100
SW8270C	Bis (2-chloroethyl) ether	MG/KG	1		1							100	100
SW8270C	bis(2-chloroethoxy) methane	MG/KG	1		1							100	100
SW8270C	bis(2-ethylhexyl) phthalate	MG/KG	1		1							100	100
SW8270C	Chrysene	MG/KG	1		1							100	100
SW8270C	Dibenzo (a,h) anthracene	MG/KG	1		1							100	100
SW8270C	Dibenzofuran	MG/KG	1		1							100	100
SW8270C	Diethyl phthalate	MG/KG	1		1							100	100

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Method	Analyte	Units	Analyses	Number of Occurrences					Contractor R Flags	Total R Flags	Contractor Percent Completeness	Overall Percent Completeness
				Detects	Non- detects	Blank Flags	J Flags	M Flags				
SW8270C	Dimethyl phthalate	MG/KG	1		1						100	100
SW8270C	Di-n-butylphthalate	MG/KG	1		1						100	100
SW8270C	Di-n-octylphthalate	MG/KG	1		1						100	100
SW8270C	Fluoranthene	MG/KG	1		1			1			100	100
SW8270C	Fluorene	MG/KG	1		1						100	100
SW8270C	Hexachlorobenzene	MG/KG	1		1						100	100
SW8270C	Hexachlorobutadiene	MG/KG	1		1						100	100
SW8270C	Hexachloroethane	MG/KG	1		1						100	100
SW8270C	Indeno (1,2,3-c,d) pyrene	MG/KG	1		1						100	100
SW8270C	Isophorone	MG/KG	1		1						100	100
SW8270C	Naphthalene	MG/KG	1		1						100	100
SW8270C	Nitrobenzene	MG/KG	1		1						100	100
SW8270C	N-Nitrosodi-n-propylamine	MG/KG	1		1						100	100
SW8270C	N-Nitrosodiphenylamine	MG/KG	1		1						100	100
SW8270C	Pentachlorophenol	MG/KG	1		1						100	100
SW8270C	Phenanthrene	MG/KG	1		1						100	100
SW8270C	Phenol	MG/KG	1		1						100	100
SW8270C	Pyrene	MG/KG	1		1			1			100	100
SW8270C SIM	1-methylnaphthalene	UG/KG	61	7	54						100	100
SW8270C SIM	2-Methylnaphthalene	UG/KG	61	8	53						100	100
SW8270C SIM	Acenaphthene	UG/KG	61	3	58						100	100
SW8270C SIM	Acenaphthylene	UG/KG	61	12	49						100	100
SW8270C SIM	Anthracene	UG/KG	61	14	47						100	100
SW8270C SIM	Benzo (a) anthracene	UG/KG	61	29	32			1			100	100
SW8270C SIM	Benzo (a) pyrene	UG/KG	61	29	32			1			100	100
SW8270C SIM	Benzo (b) fluoranthene	UG/KG	61	33	28			1			100	100
SW8270C SIM	Benzo (g,h,i) perylene	UG/KG	61	31	30			1			100	100
SW8270C SIM	Benzo (k) fluoranthene	UG/KG	61	32	29			1			100	100
SW8270C SIM	Chrysene	UG/KG	61	33	28			1			100	100

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Method	Analyte	Units	Analyses	Detects	Number of Occurrences					Contractor R Flags	Total R Flags	Contractor Percent Completeness	Overall Percent Completeness
					Non- detects	Blank Flags	J Flags	M Flags					
SW8270C SIM	Dibenzo (a,h) anthracene	UG/KG	61	16	45				1		100	100	
SW8270C SIM	Fluoranthene	UG/KG	61	29	32						100	100	
SW8270C SIM	Fluorene	UG/KG	61	6	55						100	100	
SW8270C SIM	Indeno (1,2,3-c,d) pyrene	UG/KG	61	26	35				1		100	100	
SW8270C SIM	Naphthalene	UG/KG	61	5	56						100	100	
SW8270C SIM	Phenanthrene	UG/KG	61	20	41						100	100	
SW8270C SIM	Pyrene	UG/KG	61	32	29						100	100	
SW8270SIM	1-methylnaphthalene	UG/KG	6		6						100	100	
SW8270SIM	2-Methylnaphthalene	UG/KG	6		6						100	100	
SW8270SIM	Acenaphthene	UG/KG	6		6						100	100	
SW8270SIM	Acenaphthylene	UG/KG	6		6						100	100	
SW8270SIM	Anthracene	UG/KG	6	4	2						100	100	
SW8270SIM	Benzo (a) anthracene	UG/KG	6	4	2						100	100	
SW8270SIM	Benzo (a) pyrene	UG/KG	6	4	2						100	100	
SW8270SIM	Benzo (b) fluoranthene	UG/KG	6	6							100	100	
SW8270SIM	Benzo (g,h,i) perylene	UG/KG	6	6							100	100	
SW8270SIM	Benzo (k) fluoranthene	UG/KG	6	6							100	100	
SW8270SIM	Chrysene	UG/KG	6	6							100	100	
SW8270SIM	Dibenzo (a,h) anthracene	UG/KG	6	4	2						100	100	
SW8270SIM	Fluoranthene	UG/KG	6	4	2						100	100	
SW8270SIM	Fluorene	UG/KG	6		6						100	100	
SW8270SIM	Indeno (1,2,3-c,d) pyrene	UG/KG	6	6							100	100	
SW8270SIM	Naphthalene	UG/KG	6		6						100	100	
SW8270SIM	Phenanthrene	UG/KG	6	4	2						100	100	
SW8270SIM	Pyrene	UG/KG	6	4	2						100	100	
SW9045	pH	PH UNITS	1	1							100	100	