Review of Analytical Data for the RCRA Facility Investigation/Remedial Investigation for Soil at the Topock Compressor Station

Prepared for

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Introduction

Samples were collected and analyzed in support of the RCRA Facility Investigation/ Remedial Investigation (RFI/RI) activities at the Pacific Gas & Electric Company (PG&E) Topock compressor station near Needles, California. This Data Quality Evaluation (DQE) only addresses those sample locations that are within the area designated as "Bat Cave Wash", and those samples that were collected between November 8, 2011 and February 19, 2017. Samples collected prior to this timeframe were evaluated and presented in the 2008 DQE report titled *Appendix D, Review of Analytical Data for the RCRA Facility Investigation/Remedial Investigation for Soil at the Topock Compressor Station*.

This DQE report will summarize the results of the Quality Assurance/Quality Control (QA/QC) activities prescribed in the *PG&E Program Quality Assurance Project Plan* (QAPP), Revision 1 (CH2M HILL, 2008), Revision 2 (CH2M HILL, 2012) and Revision 3 (CH2M HILL, 2014); and the *Addendum to the PG&E Program QAPP for Dioxins and Furans* (CH2M HILL, 2010). The QAPP identifies the method-specific QC requirements for each analytical parameter and matrix and defines a plan to test that the correct sampling, analytical, and data reduction procedures were followed by using audits and data validation.

Analytical Data

This DQE report covers 377 soil (or solid) samples, 40 soil field duplicate (FD) samples, 61 equipment blanks (EB), and 5 trip blanks (TB). These samples were reported by the laboratories in 86 sample delivery groups.

Truesdail Laboratories, Inc. (TLI) of Tustin, California, Advanced Technology Laboratories (ATL) of Signal Hill, California, the ATL satellite laboratory of Las Vegas, Nevada, ASSET Laboratories (ASET) of Las Vegas, Nevada, and Agriculture and Priority Pollutants Laboratories, Inc. (APPL) of Fresno, California performed the required analyses. All laboratories are certified by the California Department of Health Service's Environmental Laboratory Accreditation Program for the analyses included in Table 1 where appropriate. Samples were analyzed for one or more of the analytes/methods provided in Table 1.

TABLE 1
Analytical Parameters

Parameter	Method	Laboratory
Percent moisture	D2216 [a]	APPL
Cyanide	SM4500-CN [b]	TLI
Metals	SW6010B [c]	ATL/ASET
Hexavalent Chromium [Cr(VI)]	SW7199 [c]	ATL/ASET
Mercury	SW7471A [c]	ATL/ASET
Total Petroleum Hydrocarbon (TPH)-Diesel Range Organics(DRO)/ Motor Oil	SW8015B-E [c]	ATL/ASET
TPH-Gasoline Range Organics (GRO)	SW8015B-P [c]	ATL/ASET
Organochlorine Pesticides (Pest)	SW8081A [c]	ATL/ASET
Polychlorinated Biphenyls (PCB)	SW8082 [c]	ATL/ASET
Volatile Organic Compounds (VOC)	SW8260B [c]	ATL/ASET

TABLE 1
Analytical Parameters

Parameter	Method	Laboratory
Semivolatile Organic Compounds (SVOC)	SW8270C [c]	ATL/ASET
Polynuclear Aromatic Hydocarbons (PAH)	SW8270 Selected Ion Monitoring (SIM) [c]	ATL/ASET
Dioxins and Furans	SW8290 [c]	APPL
Cyanide	SW9014 [c]	TLI
pH	SW9045 [c]	ATL/ASET

[a] American Society for Testing and Materials – ASTM – 2005

[b] Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1999.

[c] SW-846 Test Methods for Evaluating Solid Waste, 3rd Edition, revision 4, 1996.

The SDGs were evaluated by CH2M HILL chemists for data quality. Analytical performance was initially assessed on a SDG or an analytical batch basis. The association of laboratory QC samples and environmental samples from the same analytical batches is determined by the laboratory lot control number. The assessment of data includes a review of: (1) the chain of custody documentation; (2) holding-time compliance; (3) the required quality control (QC) samples at the specified frequencies; (4) method blanks; (5) laboratory control sample (LCS); (6) surrogate spike recoveries;(7) matrix spike/matrix spike duplicate (MS/MSD) samples; (8) FD precision; and (9) initial and continuing calibration criteria.

Field samples were also reviewed to ascertain field compliance and data quality issues. This review includes evaluation of FD, EB, and TB data.

Data flags were assigned according to the QC acceptance limits defined in the QAPP. These flags, as well as the reason for each flag, are entered into the electronic database and are available to data users. Multiple flags can routinely be applied to a specific sample method/matrix/analyte combination, but there will be only one final flag. As discussed below, a final flag is applied to the data on the basis of the flags entered into the database and is the most conservative of the applied validation flags. The final flag also includes matrix and blank sample impacts.

Data flags can be separated into the following two categories to be used in estimating both contractor and analytical completeness:

- Flags caused by laboratory deviation from requirements in the QAPP
- Flags applied because of the nature of the sample matrix or method limitations

The categories of data flags are tracked in the database and used to calculate both contractual and analytical completeness.

- The database keeps track of the type of protocol violation, and contractual and analytical completeness during data validation.

The data flags are those listed in the QAPP and are defined as follows:

J = Analyte was present but reported value may not be accurate or precise because one or more QC specifications were not met, or concentration is greater than the method detection limit (MDL) but less than the project quantitation limit.

R = The result has been rejected; identification and/or quantitation could not be verified because critical QC specifications were not met.

U = Analyte was analyzed for but not detected at the specified detection limit.

UJ = Analyte was analyzed for but not detected. The sample quantitation limit is estimated.

In addition, the following flags, which have no QC implications and are not listed in the QAPP, were used:

None = A database flag with no QC implications. A flag is not applied. This is a placeholder for calculating QC criteria issues that do not require flagging.

Exclude = A database flag with no QC implications. When multiple data points have been reported, such as dilutions or re-extractions, the data that best matches QAPP QC requirements are presented to the data users and the remainders are marked with this flag.

Data Assessment

The overall summaries of the data validation findings are contained in Tables A1 through A9 at the end of this report.

- **Table A1 – Holding Times - Qualified Data**. Presents the data qualified due to holding time exceedances.
- **Table A2 – Blank Contamination - Qualified Data**. Presents the data qualified due to laboratory or field blank contamination.
- **Table A3 – Calibration Exceedances – Qualified Data.** Presents the data qualified because of calibration criteria exceedances.
- **Table A4 – Field Duplicate Precision - Qualified Data**. Presents the data qualified due to FD imprecision.
- **Table A5 - Laboratory Control Sample Exceedances – Qualified Data.** Presents the data qualified because of laboratory control sample criteria exceedances.
- **Table A6 – Matrix Spike Precision/Accuracy - Qualified Data**. Presents the data qualified due to MS/MSD criteria exceedances.
- **Table A7 – Surrogate Recovery – Qualified Data.** Presents the data qualified because of surrogate recovery criteria exceedances.
- **Table A8 – Internal Standard Response Exceedances – Qualified Data.** Presents the data qualified because of internal standard response criteria exceedances.
- **Table A9 – Site Completeness by Analyte - Qualified Data**. Presents the percent completeness by analyte, matrix, and method.
- **Table A10 – Site and Sample Location Summary – Data Summary**. Presents the sample locations and site information sorted by site.

The data assessment included a review of the activities described in the following sections.

Holding Times

Holding-time (HT) exceedances result in the possible loss of target analytes due to degradation or chemical reactions that usually cause a negative bias to sample results. Detected and non-detected sample results that marginally exceeded the method recommended holding time were qualified as estimated and flagged "J" or "UJ".

Due to the culturally sensitive nature of the site, samples collected during the field activities were archived and kept in cold storage in case additional analyes were required to be performed at a later date. In most cases, the analyses requested for these archive samples generally consisted of PAHs, PCBs, and Dioxins/Furans and were well beyond the recommended holding times. Therefore, detected sample results were qualified as estimated and flagged "J" while non-detected samples results were rejected from project use and flagged "R", with the exception of Dioxins/Furans. Based on their relative stability in the environment, detected and non-detected Dioxin/Furan results were qualified as estimated and flagged "J" or "UJ".

All sample results affected by holding times are listed in Table A1 and are summarized below by site:

AOC 1 - Four PCB (SW8082) samples were prepared outside the method recommended sample preparation HT of 14 days. The analysis for PCBs was not originally in the work plan and was requested well after the sample preparation holding time had been exceeded. However, based on other method sources, PCBs may be stored for up to one year. Therefore, detected and non-detected sample results were qualified as estimated and flagged "J" or "UJ" respectively.

Two SVOC (SW8270C) samples were prepared outside the method recommended sample preparation HT of 14 days. Samples were received after the sample preparation HT had expired. The non-detected result was qualified as estimated and flagged "UJ".

Four PAH (SW8270 SIM) samples were prepared outside the method recommended sample preparation HT of 14 days. The analysis for PAHs was not originally in the work plan and was requested well after the sample preparation holding time had been exceeded. Detected sample results were qualified as estimated and flagged "J" while non-detected samples results were rejected from project use and flagged "R".

One cyanide (SW9014) sample was analyzed one day outside the method recommended holding time of 14 days. The non-detected sample result was qualified as estimated and flagged "UJ".

AOC 4 - All HT acceptance criteria were met for this site.

AOC 6 - Two PCB (SW8082) and five PAH (SW8270 SIM) samples were prepared outside the method recommended sample preparation HT of 14 days. The analysis for PAHs and PCBs were not originally in the work plan and were requested well after the sample preparation holding time had been exceeded. Since the samples were prepared over one year after the samples were collected, the detected sample results were qualified as

estimated and flagged "J" while non-detected samples results were rejected from project use and flagged "R".

Six Dioxin/Furan (SW8290) samples and the associated moisture analysis were prepared more than one year after the samples were collected. The analysis for Dioxins/Furans was not originally in the work plan and was requested at a later date. Detected and non-detected sample results were qualified as estimated and flagged "J" or "UJ" respectively.

AOC 13 - Two Dioxin/Furan (SW8290) samples were prepared more than one year after the samples were collected. The analysis for Dioxins/Furans was not originally in the work plan and was requested at a later date. Detected and non-detected sample results were qualified as estimated and flagged "J" or "UJ" respectively.

AOC 20 - Three TPH-DRO (SW8015) samples were prepared 9-10 days outside the method recommended holding time of 14 days due to laboratory error. The detected sample results were qualified as estimated and flagged "J".

AOC 27 - All HT acceptance criteria were met for this site.

AOC 28 - All HT acceptance criteria were met for this site.

Perimeter Area - All HT acceptance criteria were met for this site.

Storm Drains - Five cyanide (SW9014) samples were analyzed one day outside the method recommended holding time of 14 days. The non-detected sample results were qualified as estimated and flagged "UJ".

SWMU 1 - Two Dioxin/Furan (SW8290) samples were prepared more than one year after the samples were collected. The analysis for Dioxins/Furans was not originally in the work plan and was requested at a later date. Detected and non-detected sample results were qualified as estimated and flagged "J" or "UJ" respectively.

SWMU 11 - All HT acceptance criteria were met for this site.

Method Blanks

Method blanks (MB) are used to monitor each preparation or analytical batch for contamination throughout the entire analytical process from sources such as glassware, reagents, instrumentation and other potential contaminant sources within the laboratory. If a target analyte is detected in the MB, similar detections in the samples are possibly artifacts of laboratory contamination. Therefore, sample results were qualified as not detected and flagged "U."

MBs were analyzed at the required frequency. All sample results affected by laboratory contamination are listed in Table A2 and are summarized below by site:

AOC 1 – Several Dioxin/Furan (SW8290) isomers were detected below or above the RL in one or more laboratory blanks (LB). Sixty-three associated detected sample results were less than or equal to five times the blank concentration and were qualified as not detected and flagged "U".

AOC 4 – 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin and OCDD (SW8290) were detected below the RL in one laboratory blank (LB). Four associated detected sample results were less

than or equal to five times the blank concentration and were qualified as not detected and flagged "U".

AOC 6 - All MB acceptance criteria were met for this site.

AOC 13 - All MB acceptance criteria were met for this site.

AOC 20 - All MB acceptance criteria were met for this site.

AOC 27 – OCDD and OCDF (SW8290) were detected below the RL in one laboratory blank (LB). Three associated detected sample results were less than or equal to five times the blank concentration and were qualified as not detected and flagged "U".

AOC 28 - All MB acceptance criteria were met for this site.

Perimeter Area - All MB acceptance criteria were met for this site.

Storm Drains – 2,3,7,8-Tetrachlorodibenzofuran and 2,3,7,8-Tetrachlorodibenzo-p-dioxin (SW8290) were detected below the RL in one laboratory blank (LB). Three associated detected sample results were less than or equal to five times the blank concentration and were qualified as not detected and flagged "U".

SWMU 1 - Several Dioxin/Furan (SW8290) isomers were detected below the RL in one or more laboratory blanks (LB). Eight associated detected sample results were less than or equal to five times the blank concentration and were qualified as not detected and flagged "U".

SWMU 11 - All MB acceptance criteria were met for this site.

Equipment Blanks

EBs are used to assess the effectiveness of sampling equipment decontamination procedures. Target analytes detected in EBs may indicate that field equipment was not thoroughly decontaminated and/or samples could have been cross contaminated.

No target analytes were detected in the EBs.

Trip Blanks

TBs are used to monitor for cross contamination of VOC samples during sample shipping and handling. One TB was placed in each sample cooler containing field samples for VOC analyses. Trip blanks are supplied by the fixed laboratory doing the analysis. The TBs were submitted and analyzed for VOC analyses only.

No target analytes were detected in the TBs.

Calibration

Initial calibration and periodic calibration verification are essential to generating defensible analytical data. Calibrations that do not meet method requirements result in data that may have either a high or low bias. Detected and non-detected sample results associated with caibrations that had a low bias were qualified as estimated and flagged "J" or "UJ" respectively. Detected sample results associated with calibrations that had a high bias were

qualified as estimated and flagged "J"; non-detected results associated with a high bias were not qualified.

All sample results affected by calibration exceedances are listed in Table A3 and are summarized below by site:

AOC 1 – On one analytical run, the continuing calibration verification standard exceeded the lower control limit (LCL) of 15 percent from the expected value for several pesticides (SW8081A). Six non-detected sample results were qualified as estimated and flagged "UJ".

On one analytical run, the continuing calibration verification standard exceeded the LCL of 15 percent from the expected value for Aroclors 1242, 1248, and 1254 (SW8082). Eighteen non-detected sample results were qualified as estimated and flagged "UJ".

On one analytical run, the continuing calibration verification standard exceeded the LCL of 20 percent from the expected value for methyl acetate (SW8260B). One non-detected sample result was qualified as estimated and flagged "UJ".

On one analytical run, the continuing calibration verification standard exceeded the LCL of 20 percent from the expected value for 2,4-dinitrophenol and pentachlorophenol (SW8270C). Four non-detected sample results were qualified as estimated and flagged "UJ".

AOC 4 - All calibration acceptance criteria were met for this site.

AOC 6 - On one or more analytical runs, the continuing calibration verification standard exceeded the LCL of 15 percent from the expected value for Aroclors 1242 and 1248 (SW8082). Eight non-detected sample results were qualified as estimated and flagged "UJ".

AOC 13 - On one analytical run, the continuing calibration verification standard exceeded the LCL of 15 percent from the expected value for Aroclor 1242 (SW8082). Two non-detected sample results were qualified as estimated and flagged "UJ".

On one analytical run, the continuing calibration verification standard exceeded the upper control limit (UCL) of 20 percent from the expected value for benzo(a)anthracene and phenanthrene (SW8270 SIM). Four detected sample results were qualified as estimated and flagged "J".

The mass resolution tuning criteria was not met for OCDD during initial calibration (SW8290). Two detected sample results were qualified as estimated and flagged "J".

AOC 20 - On one analytical run, the continuing calibration verification standard exceeded the UCL of 20 percent from the expected value for benzo(k)anthracene (SW8270 SIM). Two detected sample results were qualified as estimated and flagged "J".

AOC 27 - On one analytical run, the continuing calibration verification standard exceeded the LCL of 20 percent from the expected value for methyl acetate (SW8260B). One non-detected sample result was qualified as estimated and flagged "UJ".

On one analytical run, the continuing calibration verification standard exceeded the UCL of 20 percent from the expected value for benzo(a)anthracene (SW8270 SIM). One detected sample result was qualified as estimated and flagged "J".

AOC 28 - All calibration acceptance criteria were met for this site.

Perimeter Area - All calibration acceptance criteria were met for this site.

Storm Drains – On one analytical run, the continuing calibration verification standard exceeded the UCL of 20 percent from the expected value for benzo(a)anthracene and phenanthrene (SW8270 SIM). Four detected sample results were qualified as estimated and flagged "J".

SWMU 1 - On one analytical run, the continuing calibration verification standard exceeded the LCL of 20 percent from the expected value for methyl acetate (SW8260B). Two non-detected sample results were qualified as estimated and flagged "UJ".

The mass resolution tuning criteria was not met for OCDD during initial calibration (SW8290). One detected sample result was qualified as estimated and flagged "J".

SWMU 11 - All calibration acceptance criteria were met for this site.

Field Duplicates

A field duplicate (FD), or collocated sample, is an independent sample collected as close as possible to the original sample from the same source under identical conditions. Field duplicates were collected in the field for 10 percent or more of the samples collected for analysis during each sampling event, by matrix and method, and are used to document sampling and analytical precision and representativeness. The RPD criterion for FDs for soils is 20 percent for inorganic methods and 50 percent for organic methods, with the exception of Dioxins and Furans, which is 40 percent. When precision criteria were not met, detected and non-detected sample results were qualified as estimated and flagged "J" or "UJ".

All sample results affected by FD precision are listed Table A4 and are summarized below by site:

AOC 1 – Several metal compounds (SW6010B) from one or more FD pairs exceeded the RPD acceptance criteria of 20 percent. Forty-six detected native and FD results were qualified as estimated concentrations and flagged "J."

Chromium hexavalent (SW7199) from one FD pair exceeded the RPD acceptance criteria of 20 percent. Two detected native and FD results were qualified as estimated concentrations and flagged "J."

Aroclor 1254 (SW8082) from one FD pair exceeded the RPD acceptance criteria of 20 percent. Two detected native and FD results were qualified as estimated concentrations and flagged "J".

Chrysene (SW8270 SIM) from one FD pair exceeded the RPD acceptance criteria of 20 percent. One detected and one non-detected native/FD results were qualified as estimated concentrations and flagged "J" or "UJ" respectively.

Several Dioxin/Furan isomers (SW8290) from one or more FD pairs exceeded the RPD acceptance criteria of 40 percent. Thirty-five detected and three non-detected native and FD results were qualified as estimated concentrations and flagged "J" or "UJ" respectively.

AOC 4 – Several metal compounds (SW6010B) from one or more FD pairs exceeded the RPD acceptance criteria of 20 percent. Eighteen detected native and FD results were qualified as estimated concentrations and flagged "J."

Chromium hexavalent (SW7199) from one FD pair exceeded the RPD acceptance criteria of 20 percent. Two detected native and FD results were qualified as estimated concentrations and flagged "J."

Several Dioxin/Furan isomers (SW8290) from one or more FD pairs exceeded the RPD acceptance criteria of 40 percent. Fourteen detected native and FD results were qualified as estimated concentrations and flagged "J."

AOC 6 – Several metal compounds (SW6010B) from one or more FD pairs exceeded the RPD acceptance criteria of 20 percent. Eighteen detected native and FD results were qualified as estimated concentrations and flagged "J."

AOC 13 – Several metal compounds (SW6010B) from one or more FD pairs exceeded the RPD acceptance criteria of 20 percent. Sixteen detected native and FD results were qualified as estimated concentrations and flagged "J."

Chromium hexavalent (SW7199) from one FD pair exceeded the RPD acceptance criteria of 20 percent. Two detected native and FD results were qualified as estimated concentrations and flagged "J."

Aroclor 1254 (SW8082) from one FD pair exceeded the RPD acceptance criteria of 20 percent. Two detected native and FD results were qualified as estimated concentrations and flagged "J".

Several PAH compounds (SW8270 SIM) from one FD pair exceeded the RPD acceptance criteria of 20 percent. Sixteen detected and two non-detected native/FD results were qualified as estimated concentrations and flagged "J" or "UJ" respectively.

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin and octachlorodibenzo-p-dioxin (SW8290) from one FD pair exceeded the RPD acceptance criteria of 40 percent. Four detected native and FD results were qualified as estimated concentrations and flagged "J."

AOC 20 – Barium (SW6010B) from one FD pair exceeded the RPD acceptance criteria of 20 percent. Two detected native and FD results were qualified as estimated concentrations and flagged "J."

Aroclors 1254 and 1260 (SW8082) from one FD pair exceeded the RPD acceptance criteria of 20 percent. Four detected native and FD results were qualified as estimated concentrations and flagged "J".

Benzo(a)pyreme (SW8270 SIM) from one FD pair exceeded the RPD acceptance criteria of 20 percent. Two detected native and FD results were qualified as estimated concentrations and flagged "J".

AOC 27 - All FD acceptance criteria were met for this site.

AOC 28 - All FD acceptance criteria were met for this site.

Perimeter Area - All FD acceptance criteria were met for this site.

Storm Drains – Several metal compounds (SW6010B) from one or more FD pairs exceeded the RPD acceptance criteria of 20 percent. Twelve detected native and FD results were qualified as estimated concentrations and flagged "J."

Chromium hexavalent (SW7199) from one FD pair exceeded the RPD acceptance criteria of 20 percent. Two detected native and FD results were qualified as estimated concentrations and flagged "J."

Aroclors 1254 and 1260 (SW8082) from one FD pair exceeded the RPD acceptance criteria of 20 percent. Three detected and one non-detected native/FD results were qualified as estimated concentrations and flagged "J" or "UJ".

SWMU 1 – Barium, chromium, and copper (SW6010B) from one or more FD pairs exceeded the RPD acceptance criteria of 20 percent. Eight detected native and FD soil results were qualified as estimated concentrations and flagged "J."

Several Dioxin/Furan isomers (SW8290) from one or more FD pairs exceeded the RPD acceptance criteria of 40 percent. Six detected native and FD results were qualified as estimated concentrations and flagged "J."

Laboratory Control Samples

A LCS measures laboratory accuracy. Accuracy is the degree of agreement between a measured value and the expected value. The LCS is prepared from laboratory deionized or reagent-grade water and spiked with known amounts of the target analytes of interest. Recovery of analytes outside of QC limits generally indicates a problem with the analytical procedure. A low LCS recovery indicates that the target analyte in associated samples is likely biased low. Associated detected and non-detected sample results were qualified as estimated and flagged "J" or "UJ". Likewise, a high LCS recovery indicates that the target analyte in associated samples is likely biased high. Associated detected results were qualified as estimated and flagged "J". Non-detected results associated with a high bias recovery were not qualified.

All sample results affected by LCS accuracy exceedances are listed in Table A5 and are summarized below by site:

AOC 1 – One LCS for Chromium hexavalent (SW7199) had a recovery that was less than the LCL. Two associated detected sample results were qualified as estimated and flagged "J", and seven associated non-detected sample results were qualified as estimated and flagged "UJ."

Toxaphene (SW8081) recovery could not be evaluated as the compound was not included in the LCS spiking mix used to create the LCS. Therefore, non-detected sample results were qualified as estimated and flagged "UJ."

One LCS for hexachlorocyclopentadience (SW8270C) had a recovery that was less than the LCL. One associated non-detected sample result was qualified as estimated and flagged "UJ."

One LCS for naphthalene (SW8270 SIM) had a recovery that was less than the LCL. Two associated non-detected sample results were qualified as estimated and flagged "UJ."

AOC 4 - All LCS acceptance criteria were met for this site.

AOC 6 - All LCS acceptance criteria were met for this site.

AOC 13 – Acetone (SW8260B) from one LCS/LCS duplicate pair exceeded the RPD acceptance criteria of 30 percent. Two associated non-detected sample results were qualified as estimated and flagged "UJ."

AOC 20 – One LCS for isopropylbenzene (SW8260B) had a recovery that was less than the LCL. Three associated non-detected sample results were qualified as estimated and flagged "UJ."

AOC 27 - All LCS acceptance criteria were met for this site.

AOC 28 - All LCS acceptance criteria were met for this site.

Perimeter Area – One LCS for benzoic acid (SW8270C) had a recovery that was less than the LCL. One associated non-detected sample result was qualified as estimated and flagged "UJ."

Storm Drain - All LCS acceptance criteria were met for this site.

SWMU 1 - All LCS acceptance criteria were met for this site.

SWMU 11 - All LCS acceptance criteria were met for this site.

Matrix Spike Samples

MS recoveries are used to evaluate the affect of the sample matrix on the recovery of target analytes. A sample is fortified with a known quantity of a target analyte and is carried through the same preparation and analytical procedures as the unspiked sample. MS recoveries outside the QC limits may indicate that the sample's matrix is affecting the method's ability to accurately quantify the target analyte in the associated sample, or samples from similar locations. A low MS recovery generally indicates a negative bias in the sample data. Associated parent detected and non-detected sample results were qualified as estimated and flagged "J" or "UJ". When the MS and/or MSD recoveries were below 10 percent, the associated parent sample detected result was qualified as estimated and flagged "J". However, an associated non-detected parent sample result was rejected from project use and flagged "R". A high MS recovery indicates a potential positive bias to the associated sample data. The associated parent detected results were qualified as estimated and flagged "J". Non-detected parent results associated with a high bias recovery were not qualified. If duplicate MS analyses are performed, a RPD greater than QC criteria may further indicate that the sample matrix is affecting the precision of the method for the target analyte that did not meet criteria. Therefore, the associated parent detected results were qualified as estimated and flagged "J".

All sample results affected by MS accuracy or precision exceedances are listed in Table A6 and are summarized below by site:

AOC 1 – The MS or MSD for several metal compounds (SW6010B) had a recovery that was greater than the control limit for four samples. The associated detected parent sample results were qualified as estimated and flagged "J."

The MS/MSD for several metal compounds (SW6010B) had a recovery that was less than the control limit for 14 samples. The associated detected and non-detected parent sample results were qualified as estimated and flagged "J" or "UJ" respectively.

Arsenic, nickel and zinc from one MS/MSD and lead from another MS/MSD (SW6010B) exceeded the RPD acceptance criteria of 20 percent. The associated detected parent sample results were qualified as estimated and flagged "J."

The MSD for hexavalent chromium (SW7199) had a recovery that was less than LCL for one sample. The associated non-detected parent sample result was qualified as estimated and flagged "UJ."

The MS/MSD recovery for mercury (SW7471A) could not be evaluated for sample AOC1-4-184 as the compound was not included in the MS spiking mix used to create the MS/MSD. Therefore, the non-detected sample result was qualified as estimated and flagged "UJ."

The MS/MSD for heptachlor epoxide (SW8081A) had a recovery that was less than the LCL for one sample. The associated non-detected parent sample result was qualified as estimated and flagged "UJ."

Aroclor 1016 (SW8082) from one MS/MSD exceeded the RPD acceptance criteria of 20 percent. The associated non-detected parent sample result was qualified as estimated and flagged "UJ."

The MS/MSD for acrolein (SW8260B) had a recovery that was less than the LCL for one sample. The associated non-detected parent sample result was qualified as estimated and flagged "UJ."

The MS/MSD for several SVOC compounds (SW8270C) had a recovery that was less than then LCL for two samples. The associated non-detected parent sample results were qualified as estimated and flagged "UJ." The recoveries for 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, 4-nitrophenol, benzoic acid, and pentachlorophenol in the MS/MSD for sample TCS-4-02 were less than 10 percent. The associated non-detected parent sample results were rejected from project use and flagged "R".

The MS/MSD for several dioxin/furan isomers (SW8290) had a recovery that was less than the control limit for six samples. The associated detected and non-detected parent sample results were qualified as estimated and flagged "J" or "UJ" respectively.

The MS/MSD for several dioxin/furan isomers (SW8290) had a recovery that was greater than the control limit for seven samples. The associated detected parent sample results were qualified as estimated and flagged "J."

1,2,3,4,6,7,8-Heptachlorodibenzofuran, 1,2,3,6,7,8-hexachlorodibenzo-p-dioxin, and/or octachlorodibenzofuran (SW8290) from five MS/MSDs exceeded the RPD acceptance criteria of 20 percent. The associated detected parent sample results were qualified as estimated and flagged "J."

AOC 4 – The MS/MSD for antimony, barium, cadmium, selenium, thallium, or zinc (SW6010B) had a recovery that was either less than or greater than the control limit for two

samples. The associated detected and non-detected parent sample results were qualified as estimated and flagged "J" or "UJ" respectively.

AOC 6 – The MS or MSD for manganese and potassium (SW6010B) had a recovery that was less than the control limit for one sample. The associated detected parent sample results were qualified as estimated and flagged "J."

The MS/MSD for aroclors 1016 and 1260 (SW8082) had a recovery that was either less than or greater than the control limit for one sample. The associated detected and non-detected parent sample results were qualified as estimated and flagged "J" or "UJ" respectively.

Aroclors 1016 and 1260 (SW8082) from one MS/MSD exceeded the RPD acceptance criteria of 20 percent. The associated detected and non-detected parent sample results were qualified as estimated and flagged "J" or "UJ" respectively.

AOC 13 – The MS/MSD for cadmium, cobalt, lead, selenium, thallium, and zinc (SW6010B) had a recovery that was less than the LCL for one sample. The associated detected and non-detected parent sample results were qualified as estimated and flagged "J" or "UJ" respectively.

The MS or MSD for benzo(ghi)perylene, dibenzo(a,h)anthracene, or fluoranthene (SW8270 SIM) had a recovery that was less than the LCL for one sample. The associated detected and non-detected parent sample results were qualified as estimated and flagged "J" or "UJ" respectively.

The MS or MSD for 1,2,3,4,7,8,9-heptachlorodibenzofuran, 1,2,3,4,7,8-hexachlorodibenzofuran, or 1,2,3,7,8,9-hexachlorodibenzo-p-dioxin (SW8290) had a recovery that was less than the LCL for one sample. The associated detected parent sample results were qualified as estimated and flagged "J."

AOC 20 - All MS/MSD acceptance criteria were met for this site.

AOC 27 - The MS/MSD for selenium and thallium (SW6010B) had a recovery that was less than the LCL for one sample. The associated non-detected parent sample results were qualified as estimated and flagged "UJ."

The MS or MSD for several PAH compounds (SW8270 SIM) had a recovery that was less than the LCL for two samples. The associated detected parent sample results were qualified as estimated and flagged "J".

AOC 28 - All MS/MSD acceptance criteria were met for this site.

Perimeter Area – The MS/MSD for TPH as motor oil (SW8015B) had a recovery that was less than LCL for one sample. The associated detected parent sample result was qualified as estimated and flagged "J."

Storm Drain – The MS or MSD for selenium, silver, or thallium (SW6010B) had a recovery that was less than the LCL for one sample. The associated non-detected parent sample results were qualified as estimated and flagged "UJ."

SWMU 1 – The MS/MSD for antimony, barium, chromium, iron, selenium, thallium, or zinc (SW6010B) had a recovery that was less than the LCL for three samples. The associated

detected and non-detected parent sample results were qualified as estimated and flagged "J" or "UJ" respectively.

The MS/MSD for benzaldehyde, caprolactam, and hexachlorocyclopentadiene (SW8270C) had a recovery that was less than the LCL for one sample. The associated non-detected parent sample results were qualified as estimated and flagged "UJ."

The MS or MSD for 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin, 1,2,3,4,7,8,9-heptachlorodibenzofuran, 1,2,3,6,7,8-hexachlorodibenzo-p-dioxn, or octachlorodibenzofuran (SW8290) had a recovery that was less than the LCL for two samples. The associated detected parent sample results were qualified as estimated and flagged "J."

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin, 1,2,3,4,7,8,9-heptachlorodibenzofuran, 1,2,3,6,7,8-hexachlorodibenzo-p-dioxn (SW8290) from two MS/MSD exceeded the RPD acceptance criteria of 20 percent. The associated detected parent sample results were qualified as estimated and flagged "J."

SWMU 11 - All MS/MSD acceptance criteria were met for this site.

Post Digestion Spikes

A post-digestion spike (PDS) is a portion of the sample digestate that is fortified with a known quantity of a target analyte. The PDS is used to measure either positive or negative interferences that may distort the accuracy of the reported values in the native sample. Accuracy of the analytes should be within 75 to 125 percent of the known concentration added. Post-digestion spikes are only evaluated for metals analyses. When acceptance criteria were not met, detected and non-detected sample results were qualified as estimated and flagged "J" or "UJ".

All sample results affected by PDS exceedances are listed in Table A6 and are summarized below by site:

AOC 1 – The PDS for several metal compounds (SW6010B) had a recovery that was either less than or greater than the control limit for one or more parent samples. The associated detected and non-detected sample results in the associated analytical batch were qualified as estimated and flagged "J" or "UJ" respectively.

AOC 4 – The PDS for barium and zinc (SW6010B) had a recovery that was less than the LCL for one parent sample. The associated detected sample results in the associated analytical batch were qualified as estimated and flagged "J."

AOC 6 – The PDS for potassium or silver (SW6010B) had a recovery that was greater than the UCL for one parent sample. The associated detected and non-detected sample results in the associated analytical batch were qualified as estimated and flagged "J" or "UJ" respectively.

AOC 13 – The PDS for selenium, silver, or thallium (SW6010B) had a recovery that was less than the LCL for one or more parent samples. The associated non-detected sample results in the associated analytical batch were qualified as estimated and flagged "UJ."

AOC 20 – The PDS for antimony or selenium (SW6010B) had a recovery that was less than the LCL for one parent sample. The associated non-detected sample results in the associated analytical batch were qualified as estimated and flagged "UJ."

AOC 27 – The PDS for selenium or thallium (SW6010B) had a recovery that was less than the LCL for one parent sample. The associated non-detected sample results in the associated analytical batch were qualified as estimated and flagged "UJ."

AOC 28 - All PDS acceptance criteria were met for this site.

Perimeter Area - All PDS acceptance criteria were met for this site.

Storm Drain – The PDS for selenium, silver, or thallium (SW6010B) had a recovery that was less than the LCL for one or more parent samples. The associated non-detected sample results in the associated analytical batch were qualified as estimated and flagged "UJ."

SWMU 1 – The PDS for selenium, silver, or thallium (SW6010B) had a recovery that was less than the LCL for one parent sample. The associated non-detected sample results in the associated analytical batch were qualified as estimated and flagged "UJ."

SWMU 11 - All PDS acceptance criteria were met for this site.

Serial Dilution

A 1 to 5 serial dilution is performed on a portion of the sample digestate and analyzed. The serial dilution is used to measure either positive or negative interferences that may distort the precision of the reported values in the native sample. Precision is expressed in terms of the percent difference (%D) between the original sample and the serial dilution results. The %D criterion should be less than 10 percent if the concentration of the analyte in the original sample is greater than 50 times the MDL. Serial dilutions are only evaluated for metals analyses. When acceptance criteria were not met, detected and non-detected sample results were qualified as estimated and flagged "J" or "UJ".

All sample results affected by serial dilution exceedances are listed in Table A6 and are summarized below by site:

AOC 1 – The serial dilution for zinc (SW6010B) from one parent sample exceeded the %D criteria of 10 percent. The associated detected sample result in the associated analytical batch was qualified as estimated and flagged "J."

AOC 4 - All serial dilution acceptance criteria were met for this site.

AOC 6 – The serial dilution for magnesium and zinc (SW6010B) from one parent sample exceeded the %D criteria of 10 percent. The associated detected sample results in the associated analytical batch were qualified as estimated and flagged "J."

AOC 13 - All serial dilution acceptance criteria were met for this site.

AOC 20 - All serial dilution acceptance criteria were met for this site.

AOC 27 - All serial dilution acceptance criteria were met for this site.

AOC 28 - All serial dilution acceptance criteria were met for this site.

Perimeter Area - All serial dilution acceptance criteria were met for this site.

Storm Drain - All serial dilution acceptance criteria were met for this site.

SWMU 1 – The serial dilution for zinc (SW6010B) from one parent sample exceeded the %D criteria of 10 percent. The associated detected sample result in the associated analytical batch was qualified as estimated and flagged "J."

SWMU 11 - All serial dilution acceptance criteria were met for this site.

Laboratory Duplicates

A laboratory duplicate is a separate sample aliquot that is subjected to the same preparation and analytical procedures as the native sample. Laboratory duplicates were analyzed to measure the precision of sample results reported as required by the analytical method. Precision is expressed in terms of the relative percent difference (RPD) between the native and laboratory duplicate sample results. The RPD criterion for laboratory duplicates is 20 percent. When precision criteria were not met, detected and non-detected sample results were qualified as estimated and flagged "J" or "UJ".

The laboratory analyzed duplicate aliquots of field samples at the required frequency. The QC acceptance criteria were met for all methods.

Surrogates

Surrogates are primarily used in organic chromatography methods and are added prior to sample preparation. The surrogates are added to all samples, standards, and blanks in an analytical run and provide a measurement to determine recovery for every sample matrix. Surrogate compounds are chosen to represent the various chemistries of the target analytes in a specific method. A low surrogate recovery indicates that the target analytes in associated samples is likely biased low. Associated detected and non-detected sample results were qualified as estimated and flagged "J" or "UJ". Likewise, a high surrogate recovery indicates that the target analytes in associated samples is likely biased high. Associated detected results were qualified as estimated and flagged "J". Non-detected results associated with a high bias recovery were not qualified.

All sample results affected by surrogate accuracy exceedances are listed in Table A7 and are summarized below by site:

AOC 1 – The pesticide surrogate recovery (SW8081) from one soil sample was less than the LCL. Twenty associated non-detected sample results were qualified as estimated and flagged "UJ."

The PCB surrogate recovery (SW8082) from one soil sample was less than the LCL. Seven associated non-detected sample results were qualified as estimated and flagged "UJ."

Two SVOC surrogate recoveries (SW8270C) from one soil sample were less than the LCL. Sixty-four associated non-detected sample results were qualified as estimated and flagged "UJ."

One or more PAH surrogate recoveries (SW8270 SIM) from three soil samples were greater than the UCL. Ten associated detected sample results were qualified as estimated and flagged "J."

One or more Dioxin/Furan surrogate recoveries (SW8280) from two soil samples were greater than the UCL. Twelve associated detected sample results were qualified as estimated and flagged "J."

AOC 4 - All surrogate recovery acceptance criteria were met for this site.

AOC 6 - The PCB surrogate recovery (SW8082) from one soil sample was greater than the UCL. Two associated detected sample results were qualified as estimated and flagged "J."

AOC 13 – One or more PAH surrogate recoveries (SW8270 SIM) from three soil samples were greater than the UCL. Thirteen associated detected sample results were qualified as estimated and flagged "J."

One or more PAH surrogate recoveries (SW8270 SIM) from one soil sample were less than the LCL. Fifteen associated non-detected sample results were qualified as estimated and flagged "UJ."

AOC 20 – The PCB surrogate recovery (SW8082) from one soil sample was greater than the UCL. Two associated detected sample results were qualified as estimated and flagged "J."

AOC 27 - All surrogate recovery acceptance criteria were met for this site.

AOC 28 - All surrogate recovery acceptance criteria were met for this site.

Perimeter Area - All surrogate recovery acceptance criteria were met for this site.

Storm Drain – The PCB surrogate recoveries (SW8082) from two soil samples were greater than the UCL. Four associated detected sample results were qualified as estimated and flagged "J."

One or more PAH surrogate recoveries (SW8270 SIM) from two soil samples were greater than the UCL. Thirty-two associated detected sample results were qualified as estimated and flagged "J."

SWMU 1 – The PCB surrogate recovery (SW8082) from one soil sample was greater than the UCL. One associated detected sample result was qualified as estimated and flagged "J."

SWMU 11 - All surrogate recovery acceptance criteria were met for this site.

Internal Standards

Internal Standards (IS) have similar chemical characteristics to those of the analytes and provide an analytical response which is distinct from the analyte and not normally subject to interference. The internal standards are added prior to analysis for the purpose of determining analyte concentrations. The internal standard's response is referenced against a relative response factor and the samples analyte concentration can be corrected for matrix effects. Detected and non-detected sample results that exceeded the method recommended acceptance criteria for IS recovery were qualified as estimated and flagged "J" or "UJ".

All sample results affected by IS recovery exceedances are listed in Table A8 and are summarized below by site:

AOC 1 – The IS recovery for perylene-d12 (SW8270 SIM) from three soil samples was less than the LCL. Nine associated detected sample results were qualified as estimated and flagged "J."

AOC 4 - All IS recovery acceptance criteria were met for this site.

AOC 6 – The IS recovery for perylene-d12 (SW8270 SIM) from two soil samples was less than the LCL. Eight associated detected sample results and one associated non-detected sample result were qualified as estimated and flagged "J" or "UJ" respectively.

AOC 13 – The IS recovery for perylene-d12 (SW8270 SIM) from two soil samples was less than the LCL. Six associated detected sample results were qualified as estimated and flagged "J."

AOC 20 – The IS recovery for perylene-d12 (SW8270 SIM) from two soil samples was less than the LCL. Six associated detected sample results were qualified as estimated and flagged "J."

AOC 27 - All IS recovery acceptance criteria were met for this site.

AOC 28 - All IS recovery acceptance criteria were met for this site.

Perimeter Area - All IS recovery acceptance criteria were met for this site.

Storm Drain – The IS recovery for perylene-d12 (SW8270 SIM) from one soil sample was less than the LCL. Four associated detected sample results were qualified as estimated and flagged "J."

SWMU 1 - All IS recovery acceptance criteria were met for this site.

SWMU 11 - All IS recovery acceptance criteria were met for this site.

Other

Chain of Custody / Sample Receipt

Samples are collected under chain of custody to ensure that sample integrity is documented and known from the time of collection through receipt at the laboratory where custody is relinquished to the laboratory.

Each sample was documented in a completed chain of custody and received by the laboratory courier in good condition. All discrepancies identified by the laboratory were promptly resolved.

Three cyanide (SW9014) samples were received by the laboratory with a sample cooler temperature exceeding 6 deg C, which is outside the recommended temperature of 2 – 6 deg C. Three associated non-detected sample results were qualified as estimated and flagged "UJ." The associated samples are listed in Table A2.

Overall Review

The goal of this review is to demonstrate that a sufficient number of representative samples were collected and the resulting analytical data can be used to support the decision-making process. The procedures for assessing the precision, accuracy, representativeness, completeness, and comparability parameters (PARCC) are addressed in the QAPP. The following summary highlights the PARCC findings for the above-defined events:

- Precision of the data was verified through the review of the field and laboratory data quality indicators that include: FD, LCS/LCSD, MS/MSD, serial dilution, and laboratory duplicate RPDs. Precision was generally acceptable, with the exception of a number of analytical results that were qualified as estimated due to FD, MS or serial dilution RPD issues. Overall, 247 results out of 20,890 total results (approximately 1.2 percent) were qualified for precision exceptions.
- Accuracy of the data was verified through the review of the calibration, internal standard, LCS, MS/MSD, post digestion spike, and surrogate standard recoveries, as well as the evaluation of the method blank/field blank data. Accuracy was generally acceptable, with the exception of a number of analytical results being qualified as estimated detected and nondetected results due to calibration, internal standard, LCS, MS/MSD, post digestion spike, and surrogate standard recovery issues. Five results were rejected due to low MS/MSD recoveries. Overall, 471 results out of 20,890 total results (approximately 2.3 percent) were qualified for accuracy exceptions. Analytical/field blank data were generally free of contamination, with some analytical results being qualified as nondetect. Overall, 81 results out of 20,890 total results (approximately 0.4 percent) were qualified for blank contamination.
- Representativeness of the data was verified through the sample's collection, storage, and the verification of holding-time compliance. Three sample results for cyanide were qualified as estimated non-detects due to improper sample preservation (i.e. sample cooler temperature). In addition, 427 sample results were qualified as estimated detected and nondetected results and 110 sample results were rejected from project use due to holding time exceptions. All other data were reported from analyses within the USEPA-recommended holding times. Overall, 540 out of 20,890 total results (approximately 2.6 percent) were qualified.
- Comparability of the data was verified through the use of standard USEPA analytical procedures and standard units for reporting. Results obtained are comparable to industry standards in that the collection and analytical techniques followed approved, documented procedures.
- Sensitivity is a measurement based upon the analytical instrument MRLs determined by each subcontract laboratory. The analytical reporting limits were determined based upon the completion of instrument-specific MDL studies performed annually in accordance with the Code of Federal Regulations, Title 40, Part 136, Appendix B (USEPA, 1984). The MRLs are generally established by multiplying the MDL by a factor of three to five as recommended by generally accepted laboratory practice and is further supported by the lowest-level analytical standard in the initial calibration process. Sensitivity is ensured through compliance with the MRLs specified in the QAPP. Any

nondetect results that were reported by the laboratory, or were flagged non-detect due to blank contamination, have been evaluated against the project screening levels as discussed in the work plan.

- Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements compared to planned measurements. Valid data are defined as data that are not rejected for project use. The completeness goal of 90 percent was met for all analyte/methods as listed in Appendix A, Table A9.

Evaluation of 100 percent of the chemical data was performed by using the QAPP and QAPP Addendum as a guide for data quality evaluation. The overall completeness was met and no other systematic protocol errors were identified during the monitoring of the field or laboratory efforts. This along with the PARCCS evaluation demonstrate that the overall quality of the analytical program and laboratory are sufficient to meet the project data quality objectives.

Data Management

Sampling activity logs and laboratory analytical data are maintained in a project database and/or in project files, where appropriate. Data were collected and include, but are not limited to, the following items described below:

Field Data

- Daily field progress reports
- Field worksheets
- Daily field notebooks
- Groundwater sample collection logs
- Chain-of-custody reports

Laboratory Data

- Laboratory data packages grouped by SDG
- Corrective action reports
- Laboratory MDL studies
- Internal data evaluation reports for all data

Laboratory data were received in both hardcopy (PDF format) and in electronic comma-delimited American Standard Code for Information Interchange (ASCII) format. The receipt of both data types was logged into the sample-tracking program to determine completeness and laboratory turnaround-time compliance.

All data quality evaluation is done using a semi-automated data validation program that uses laboratory hardcopy and electronic data simultaneously. All validation flags and discoveries are entered into the project database and are linked directly to each individual data point. This process compares hardcopy data to electronic data. All data quality validation reports are generated from the electronic database.

The data management system was designed to maintain the usability and integrity of the data through a series of procedures and QC checks that began at the field site and carried through to the generation of data for the user. These data included both the chemical data and field operation information. Both the chemical data and the field data were handled in a relational database.

The laboratory hardcopy PDF report and electronic data are stored in the project files and project local area network hard drive areas in the CH2M HILL office in Redding, California. The original field data forms are stored in the CH2M HILL office in Oakland, California. Laboratories are required to archive the analytical data as outlined in the QAPP.

Works Cited

CH2M HILL, 2008. *PG&E Program Quality Assurance Project Plan, Revision 1.* December.

CH2M HILL, 2010. *Addendum to the PG&E Program Quality Assurance Project Plan for Dioxins and Furans.* January.

CH2M HILL, 2012. *PG&E Program Quality Assurance Project Plan, Revision 2.* August.

CH2M HILL, 2014. *PG&E Program Quality Assurance Project Plan, Revision 3.* December.

Tables

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 1								
SW8082	SOIL	AOC1-BCW12-196						
			Aroclor 1016	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1221	329 Days	37 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1232	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1242	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1248	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1254	329 Days	33 ug/Kg	J	HTp>UCL	J
			Aroclor 1260	329 Days	26 ug/Kg	J	HTp>UCL	J
SW8082	SOIL	AOC1-BCW12-197						
			Aroclor 1016	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1221	329 Days	37 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1232	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1242	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1248	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1254	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1260	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
SW8082	SOIL	AOC1-BCW9-285						
			Aroclor 1016	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1221	329 Days	36 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1232	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1242	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1248	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1254	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1260	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
SW8082	SOIL	AOC1-BCW9-286						

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 1								
SW8082	SOIL	AOC1-BCW9-286						
			Aroclor 1016	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1221	329 Days	35 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1232	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1242	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1248	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1254	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
			Aroclor 1260	329 Days	18 ug/Kg	UJ	HTp>UCL	UJ
SW8270C	SOIL	TCS-4-01						
			1,2,4-Trichlorobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			1,2-Dichlorobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			1,3-Dichlorobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			1,4-Dichlorobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2,4,5-Trichlorophenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2,4,6-Trichlorophenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2,4-Dichlorophenol	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			2,4-Dimethylphenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2,4-Dinitrophenol	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			2,4-Dinitrotoluene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2,6-Dinitrotoluene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2-Chloronaphthalene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2-Chlorophenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2-Methylnaphthalene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2-Methylphenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2-Nitroaniline	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 1								
SW8270C	SOIL	TCS-4-01						
			2-Nitrophenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			3,3'-Dichlorobenzidine	23 Days	660 ug/Kg	UJ	HTp>UCL	UJ
			3-Nitroaniline	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			4,6-Dinitro-2-methylphenol	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			4-Bromophenyl phenyl ether	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			4-Chloro-3-methylphenol	23 Days	660 ug/Kg	UJ	HTp>UCL	UJ
			4-Chloroaniline	23 Days	660 ug/Kg	UJ	HTp>UCL	UJ
			4-Chlorophenyl phenyl ether	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			4-Methylphenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			4-Nitroaniline	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			4-Nitrophenol	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			Acenaphthene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Acenaphthylene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Anthracene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzo (a) anthracene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzo (a) pyrene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzo (b) fluoranthene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzo (g,h,i) perylene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzo (k) fluoranthene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzoic acid	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			Benzyl alcohol	23 Days	660 ug/Kg	UJ	HTp>UCL	UJ
			bis (2-chloroethoxy) methane	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			bis (2-chloroethyl) ether	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			bis (2-chloroisopropyl) ether	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 1								
SW8270C	SOIL	TCS-4-01						
			bis (2-ethylhexyl) phthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Butylbenzylphthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Chrysene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Dibenzo (a,h) anthracene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Dibenzofuran	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Diethyl phthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Dimethyl phthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Di-n-butylphthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Di-n-octylphthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Fluoranthene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Fluorene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Hexachlorobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Hexachlorobutadiene	23 Days	660 ug/Kg	UJ	HTp>UCL	UJ
			Hexachloroethane	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Indeno (1,2,3-c,d) pyrene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Isophorone	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Naphthalene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Nitrobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			n-Nitrosodi-n-propylamine	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			n-Nitrosodiphenylamine	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Pentachlorophenol	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			Phenanthrene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Phenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Pyrene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 1								
SW8270C	SOIL	TCS-4-02						
			1,2,4-Trichlorobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			1,2-Dichlorobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			1,3-Dichlorobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			1,4-Dichlorobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2,4,5-Trichlorophenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2,4,6-Trichlorophenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2,4-Dichlorophenol	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			2,4-Dimethylphenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2,4-Dinitrophenol	23 Days	1700 ug/Kg	UJ	HTp>UCL	R
			2,4-Dinitrotoluene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2,6-Dinitrotoluene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2-Chloronaphthalene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2-Chlorophenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2-Methylnaphthalene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2-Methylphenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			2-Nitroaniline	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			2-Nitrophenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			3,3'-Dichlorobenzidine	23 Days	670 ug/Kg	UJ	HTp>UCL	UJ
			3-Nitroaniline	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			4,6-Dinitro-2-methylphenol	23 Days	1700 ug/Kg	UJ	HTp>UCL	R
			4-Bromophenyl phenyl ether	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			4-Chloro-3-methylphenol	23 Days	670 ug/Kg	UJ	HTp>UCL	UJ
			4-Chloroaniline	23 Days	670 ug/Kg	UJ	HTp>UCL	UJ
			4-Chlorophenyl phenyl ether	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ

TABLE A1
Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 1								
SW8270C	SOIL	TCS-4-02						
			4-Methylphenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			4-Nitroaniline	23 Days	1700 ug/Kg	UJ	HTp>UCL	UJ
			4-Nitrophenol	23 Days	1700 ug/Kg	UJ	HTp>UCL	R
			Acenaphthene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Acenaphthylene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Anthracene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzo (a) anthracene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzo (a) pyrene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzo (b) fluoranthene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzo (g,h,i) perylene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzo (k) fluoranthene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Benzoic acid	23 Days	1700 ug/Kg	UJ	HTp>UCL	R
			Benzyl alcohol	23 Days	670 ug/Kg	UJ	HTp>UCL	UJ
			bis (2-chloroethoxy) methane	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			bis (2-chloroethyl) ether	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			bis (2-chloroisopropyl) ether	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			bis (2-ethylhexyl) phthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Butylbenzylphthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Chrysene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Dibenzo (a,h) anthracene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Dibenzofuran	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Diethyl phthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Dimethyl phthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Di-n-butylphthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ

TABLE A1
Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 1								
SW8270C	SOIL	TCS-4-02						
			Di-n-octylphthalate	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Fluoranthene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Fluorene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Hexachlorobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Hexachlorobutadiene	23 Days	670 ug/Kg	UJ	HTp>UCL	UJ
			Hexachloroethane	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Indeno (1,2,3-c,d) pyrene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Isophorone	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Naphthalene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Nitrobenzene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			n-Nitrosodi-n-propylamine	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			n-Nitrosodiphenylamine	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Pentachlorophenol	23 Days	1700 ug/Kg	UJ	HTp>UCL	R
			Phenanthrene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Phenol	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
			Pyrene	23 Days	330 ug/Kg	UJ	HTp>UCL	UJ
SW8270SIM	SOIL	AOC1-BCW24-244						
			1-Methylnaphthalene	327 Days	6 ug/Kg	R	HTp>UCL	R
			2-Methylnaphthalene	327 Days	6 ug/Kg	R	HTp>UCL	R
			Acenaphthene	327 Days	6 ug/Kg	R	HTp>UCL	R
			Acenaphthylene	327 Days	6 ug/Kg	R	HTp>UCL	R
			Anthracene	327 Days	6 ug/Kg	R	HTp>UCL	R
			Benzo (a) anthracene	327 Days	7.2 ug/Kg	J	HTp>UCL	J
			Benzo (a) pyrene	327 Days	8 ug/Kg	J	HTp>UCL	J

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 1								
SW8270SIM	SOIL	AOC1-BCW24-244						
			Benzo (b) fluoranthene	327 Days	17 ug/Kg	J	HTp>UCL	J
			Benzo (g,h,i) perylene	327 Days	6 ug/Kg	R	HTp>UCL	R
			Benzo (k) fluoranthene	327 Days	7.6 ug/Kg	J	HTp>UCL	J
			Chrysene	327 Days	11 ug/Kg	J	HTp>UCL	J
			Dibenzo (a,h) anthracene	327 Days	6 ug/Kg	R	HTp>UCL	R
			Fluoranthene	327 Days	21 ug/Kg	J	HTp>UCL	J
			Fluorene	327 Days	6 ug/Kg	R	HTp>UCL	R
			Indeno (1,2,3-c,d) pyrene	327 Days	6 ug/Kg	R	HTp>UCL	R
			Naphthalene	327 Days	6 ug/Kg	R	HTp>UCL	R
			Phenanthrene	327 Days	10 ug/Kg	J	HTp>UCL	J
			Pyrene	327 Days	16 ug/Kg	J	HTp>UCL	J
SW8270SIM	SOIL	AOC1-BCW24-245						
			1-Methylnaphthalene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			2-Methylnaphthalene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Acenaphthene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Acenaphthylene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Anthracene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Benzo (a) anthracene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Benzo (a) pyrene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Benzo (b) fluoranthene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Benzo (g,h,i) perylene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Benzo (k) fluoranthene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Chrysene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Dibenzo (a,h) anthracene	327 Days	5.3 ug/Kg	R	HTp>UCL	R

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 1								
SW8270SIM	SOIL	AOC1-BCW24-245						
			Fluoranthene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Fluorene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Indeno (1,2,3-c,d) pyrene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Naphthalene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Phenanthrene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
			Pyrene	327 Days	5.3 ug/Kg	R	HTp>UCL	R
SW8270SIM	SOIL	AOC1-BCW26-252						
			1-Methylnaphthalene	328 Days	5.6 ug/Kg	R	HTp>UCL	R
			2-Methylnaphthalene	328 Days	5.6 ug/Kg	R	HTp>UCL	R
			Acenaphthene	328 Days	5.6 ug/Kg	R	HTp>UCL	R
			Acenaphthylene	328 Days	5.6 ug/Kg	R	HTp>UCL	R
			Anthracene	328 Days	5.6 ug/Kg	R	HTp>UCL	R
			Benzo (a) anthracene	328 Days	9.8 ug/Kg	J	HTp>UCL	J
			Benzo (a) pyrene	328 Days	14 ug/Kg	J	HTp>UCL	J
			Benzo (b) fluoranthene	328 Days	31 ug/Kg	J	HTp>UCL	J
			Benzo (g,h,i) perylene	328 Days	5.6 ug/Kg	R	HTp>UCL	R
			Benzo (k) fluoranthene	328 Days	13 ug/Kg	J	HTp>UCL	J
			Chrysene	328 Days	16 ug/Kg	J	HTp>UCL	J
			Dibenzo (a,h) anthracene	328 Days	5.6 ug/Kg	R	HTp>UCL	R
			Fluoranthene	328 Days	26 ug/Kg	J	HTp>UCL	J
			Fluorene	328 Days	5.6 ug/Kg	R	HTp>UCL	R
			Indeno (1,2,3-c,d) pyrene	328 Days	5.6 ug/Kg	R	HTp>UCL	R
			Naphthalene	328 Days	5.6 ug/Kg	R	HTp>UCL	R
			Phenanthrene	328 Days	12 ug/Kg	J	HTp>UCL	J

TABLE A1
Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 1								
SW8270SIM	SOIL	AOC1-BCW26-252						
			Pyrene	328 Days	23 ug/Kg	J	HTp>UCL	J
SW8270SIM	SOIL	AOC1-BCW26-253						
			1-Methylnaphthalene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			2-Methylnaphthalene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Acenaphthene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Acenaphthylene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Anthracene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Benzo (a) anthracene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Benzo (a) pyrene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Benzo (b) fluoranthene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Benzo (g,h,i) perylene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Benzo (k) fluoranthene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Chrysene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Dibenzo (a,h) anthracene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Fluoranthene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Fluorene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Indeno (1,2,3-c,d) pyrene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Naphthalene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Phenanthrene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
			Pyrene	328 Days	6.2 ug/Kg	R	HTp>UCL	R
SW9014	SOIL	AOC1-8-381						
			Cyanide, add	15 Days	0.224 MG/KG	UJ	HT>UCL	UJ
Site: AOC 13								
SW8290	SOIL	AOC13-30-17056						

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 13								
SW8290	SOIL	AOC13-30-17056						
			1,2,3,4,6,7,8-Heptachlorodibenzofuran	438 Days	1100 PG/G	J	HTp>UCL	J
			1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	438 Days	14000 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8,9-Heptachlorodibenzofuran	438 Days	93 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzofuran	438 Days	62 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	438 Days	40 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzofuran	438 Days	27 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	438 Days	290 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzofuran	438 Days	22 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	438 Days	76 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzofuran	438 Days	11 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzo-p-dioxin	438 Days	20 PG/G	J	HTp>UCL	J
			2,3,4,6,7,8-Hexachlorodibenzofuran	438 Days	3000 PG/G	UJ	HTp>UCL	UJ
			2,3,4,7,8-Pentachlorodibenzofuran	438 Days	21 PG/G	J	HTp>UCL	J
			2,3,7,8-Tetrachlorodibenzofuran	438 Days	3.1 PG/G	UJ	HTp>UCL	UJ
			2,3,7,8-Tetrachlorodibenzo-p-dioxin	438 Days	2.7 PG/G	UJ	HTp>UCL	UJ
			OCDD	438 Days	130000 PG/G	J	HTp>UCL	J
			OCDF	438 Days	3700 PG/G	J	HTp>UCL	J
			TEQ	438 Days	50 PG/G	J	HTp>UCL	J
SW8290	SOIL	AOC13-30-17057						
			1,2,3,4,6,7,8-Heptachlorodibenzofuran	438 Days	44 PG/G	J	HTp>UCL	J
			1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	438 Days	380 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8,9-Heptachlorodibenzofuran	438 Days	3.7 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzofuran	438 Days	2.2 PG/G	UJ	HTp>UCL	UJ
			1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	438 Days	1.8 PG/G	UJ	HTp>UCL	UJ

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 13								
SW8290	SOIL	AOC13-30-17057						
			1,2,3,6,7,8-Hexachlorodibenzofuran	438 Days	2.7 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	438 Days	11 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzofuran	438 Days	0.44 PG/G	UJ	HTp>UCL	UJ
			1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	438 Days	3.2 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzofuran	438 Days	0.66 PG/G	UJ	HTp>UCL	UJ
			1,2,3,7,8-Pentachlorodibenzo-p-dioxin	438 Days	1.2 PG/G	J	HTp>UCL	J
			2,3,4,6,7,8-Hexachlorodibenzofuran	438 Days	77 PG/G	UJ	HTp>UCL	UJ
			2,3,4,7,8-Pentachlorodibenzofuran	438 Days	0.74 PG/G	UJ	HTp>UCL	UJ
			2,3,7,8-Tetrachlorodibenzofuran	438 Days	0.17 PG/G	UJ	HTp>UCL	UJ
			2,3,7,8-Tetrachlorodibenzo-p-dioxin	438 Days	0.16 PG/G	UJ	HTp>UCL	UJ
			OCDD	438 Days	4400 PG/G	J	HTp>UCL	J
			OCDF	438 Days	95 PG/G	J	HTp>UCL	J
			TEQ	438 Days	1.5 PG/G	J	HTp>UCL	J
Site: AOC 20								
SW8015-E	SOIL	AOC20-09-OS1-1001						
			Motor Oil	23 Days	88 mg/Kg	J	HTp>UCL	J
			TPH-Diesel	23 Days	29 mg/Kg	J	HTp>UCL	J
SW8015-E	SOIL	AOC20-09-OS1-1002						
			Motor Oil	24 Days	64 mg/Kg	J	HTp>UCL	J
			TPH-Diesel	24 Days	35 mg/Kg	J	HTp>UCL	J
SW8015-E	SOIL	AOC20-09-OS1-1003						
			Motor Oil	24 Days	69 mg/Kg	J	HTp>UCL	J
			TPH-Diesel	24 Days	35 mg/Kg	J	HTp>UCL	J
Site: AOC 6								

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 6								
D2216	SOIL	AOC6-2-14003						
			Percent Moisture	418 Days	3.8 %	J	HT>UCL	J
D2216	SOIL	AOC6-2-14004						
			Percent Moisture	418 Days	5.4 %	J	HT>UCL	J
D2216	SOIL	AOC6-4-14008						
			Percent Moisture	418 Days	4.5 %	J	HT>UCL	J
D2216	SOIL	AOC6-7-14013						
			Percent Moisture	419 Days	4.8 %	J	HT>UCL	J
D2216	SOIL	AOC6-7-14014						
			Percent Moisture	419 Days	3.8 %	J	HT>UCL	J
D2216	SOIL	AOC6-8-14015						
			Percent Moisture	414 Days	2.7 %	J	HT>UCL	J
SW8082	SOIL	AOC6-5-14010						
			Aroclor 1016	416 Days	17 ug/Kg	R	HTp>UCL	R
			Aroclor 1221	416 Days	34 ug/Kg	R	HTp>UCL	R
			Aroclor 1232	416 Days	17 ug/Kg	R	HTp>UCL	R
			Aroclor 1242	416 Days	17 ug/Kg	R	HTp>UCL	R
			Aroclor 1248	416 Days	17 ug/Kg	R	HTp>UCL	R
			Aroclor 1254	416 Days	17 ug/Kg	R	HTp>UCL	R
			Aroclor 1260	416 Days	17 ug/Kg	R	HTp>UCL	R
SW8082	SOIL	AOC6-5-14011						
			Aroclor 1016	416 Days	17 ug/Kg	R	HTp>UCL	R
			Aroclor 1221	416 Days	34 ug/Kg	R	HTp>UCL	R
			Aroclor 1232	416 Days	17 ug/Kg	R	HTp>UCL	R

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 6								
SW8082	SOIL	AOC6-5-14011						
			Aroclor 1242	416 Days	17 ug/Kg	R	HTp>UCL	R
			Aroclor 1248	416 Days	17 ug/Kg	R	HTp>UCL	R
			Aroclor 1254	416 Days	230 ug/Kg	J	HTp>UCL	J
			Aroclor 1260	416 Days	98 ug/Kg	J	HTp>UCL	J
SW8270SIM	SOIL	AOC6-2-14003						
			1-Methylnaphthalene	414 Days	5.2 ug/Kg	R	HTp>UCL	R
			2-Methylnaphthalene	414 Days	5.2 ug/Kg	R	HTp>UCL	R
			Acenaphthene	414 Days	5.2 ug/Kg	R	HTp>UCL	R
			Acenaphthylene	414 Days	5.2 ug/Kg	R	HTp>UCL	R
			Anthracene	414 Days	5.2 ug/Kg	R	HTp>UCL	R
			Benzo (a) anthracene	414 Days	23 ug/Kg	J	HTp>UCL	J
			Benzo (a) pyrene	414 Days	19 ug/Kg	J	HTp>UCL	J
			Benzo (b) fluoranthene	414 Days	51 ug/Kg	J	HTp>UCL	J
			Benzo (g,h,i) perylene	414 Days	5.5 ug/Kg	J	HTp>UCL	J
			Benzo (k) fluoranthene	414 Days	17 ug/Kg	J	HTp>UCL	J
			Chrysene	414 Days	21 ug/Kg	J	HTp>UCL	J
			Dibenzo (a,h) anthracene	414 Days	5.2 ug/Kg	R	HTp>UCL	R
			Fluoranthene	414 Days	39 ug/Kg	J	HTp>UCL	J
			Fluorene	414 Days	5.2 ug/Kg	R	HTp>UCL	R
			Indeno (1,2,3-c,d) pyrene	414 Days	5.2 ug/Kg	J	HTp>UCL	J
			Naphthalene	414 Days	5.2 ug/Kg	R	HTp>UCL	R
			Phenanthrene	414 Days	16 ug/Kg	J	HTp>UCL	J
			Pyrene	414 Days	38 ug/Kg	J	HTp>UCL	J
SW8270SIM	SOIL	AOC6-2-14004						

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 6								
SW8270SIM	SOIL	AOC6-2-14004						
			1-Methylnaphthalene	414 Days	5.3 ug/Kg	R	HTp>UCL	R
			2-Methylnaphthalene	414 Days	5.3 ug/Kg	R	HTp>UCL	R
			Acenaphthene	414 Days	8.4 ug/Kg	J	HTp>UCL	J
			Acenaphthylene	414 Days	5.3 ug/Kg	R	HTp>UCL	R
			Anthracene	414 Days	25 ug/Kg	J	HTp>UCL	J
			Benzo (a) anthracene	414 Days	780 ug/Kg	J	HTp>UCL	J
			Benzo (a) pyrene	414 Days	1300 ug/Kg	J	HTp>UCL	J
			Benzo (b) fluoranthene	414 Days	1800 ug/Kg	J	HTp>UCL	J
			Benzo (g,h,i) perylene	414 Days	1000 ug/Kg	J	HTp>UCL	J
			Benzo (k) fluoranthene	414 Days	600 ug/Kg	J	HTp>UCL	J
			Chrysene	414 Days	580 ug/Kg	J	HTp>UCL	J
			Dibenzo (a,h) anthracene	414 Days	310 ug/Kg	J	HTp>UCL	J
			Fluoranthene	414 Days	560 ug/Kg	J	HTp>UCL	J
			Fluorene	414 Days	5.3 ug/Kg	R	HTp>UCL	R
			Indeno (1,2,3-c,d) pyrene	414 Days	720 ug/Kg	J	HTp>UCL	J
			Naphthalene	414 Days	5.3 ug/Kg	R	HTp>UCL	R
			Phenanthrene	414 Days	160 ug/Kg	J	HTp>UCL	J
			Pyrene	414 Days	540 ug/Kg	J	HTp>UCL	J
SW8270SIM	SOIL	AOC6-7-14013						
			1-Methylnaphthalene	415 Days	5.3 ug/Kg	R	HTp>UCL	R
			2-Methylnaphthalene	415 Days	5.3 ug/Kg	R	HTp>UCL	R
			Acenaphthene	415 Days	8.1 ug/Kg	J	HTp>UCL	J
			Acenaphthylene	415 Days	5.3 ug/Kg	R	HTp>UCL	R
			Anthracene	415 Days	13 ug/Kg	J	HTp>UCL	J

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 6								
SW8270SIM	SOIL	AOC6-7-14013						
			Benzo (a) anthracene	415 Days	640 ug/Kg	J	HTp>UCL	J
			Benzo (a) pyrene	415 Days	670 ug/Kg	J	HTp>UCL	J
			Benzo (b) fluoranthene	415 Days	1100 ug/Kg	J	HTp>UCL	J
			Benzo (g,h,i) perylene	415 Days	500 ug/Kg	J	HTp>UCL	J
			Benzo (k) fluoranthene	415 Days	380 ug/Kg	J	HTp>UCL	J
			Chrysene	415 Days	650 ug/Kg	J	HTp>UCL	J
			Dibenzo (a,h) anthracene	415 Days	110 ug/Kg	J	HTp>UCL	J
			Fluoranthene	415 Days	1300 ug/Kg	J	HTp>UCL	J
			Fluorene	415 Days	5.3 ug/Kg	J	HTp>UCL	J
			Indeno (1,2,3-c,d) pyrene	415 Days	390 ug/Kg	J	HTp>UCL	J
			Naphthalene	415 Days	5.3 ug/Kg	R	HTp>UCL	R
			Phenanthrene	415 Days	530 ug/Kg	J	HTp>UCL	J
			Pyrene	415 Days	1200 ug/Kg	J	HTp>UCL	J
SW8270SIM	SOIL	AOC6-7-14014						
			1-Methylnaphthalene	415 Days	5.2 ug/Kg	R	HTp>UCL	R
			2-Methylnaphthalene	415 Days	5.2 ug/Kg	R	HTp>UCL	R
			Acenaphthene	415 Days	5.2 ug/Kg	R	HTp>UCL	R
			Acenaphthylene	415 Days	5.2 ug/Kg	R	HTp>UCL	R
			Anthracene	415 Days	5.2 ug/Kg	R	HTp>UCL	R
			Benzo (a) anthracene	415 Days	58 ug/Kg	J	HTp>UCL	J
			Benzo (a) pyrene	415 Days	52 ug/Kg	J	HTp>UCL	J
			Benzo (b) fluoranthene	415 Days	79 ug/Kg	J	HTp>UCL	J
			Benzo (g,h,i) perylene	415 Days	10 ug/Kg	J	HTp>UCL	J
			Benzo (k) fluoranthene	415 Days	32 ug/Kg	J	HTp>UCL	J

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 6								
SW8270SIM	SOIL	AOC6-7-14014						
			Chrysene	415 Days	47 ug/Kg	J	HTp>UCL	J
			Dibenzo (a,h) anthracene	415 Days	5.2 ug/Kg	R	HTp>UCL	R
			Fluoranthene	415 Days	110 ug/Kg	J	HTp>UCL	J
			Fluorene	415 Days	5.2 ug/Kg	R	HTp>UCL	R
			Indeno (1,2,3-c,d) pyrene	415 Days	10 ug/Kg	J	HTp>UCL	J
			Naphthalene	415 Days	5.2 ug/Kg	R	HTp>UCL	R
			Phenanthrene	415 Days	46 ug/Kg	J	HTp>UCL	J
			Pyrene	415 Days	100 ug/Kg	J	HTp>UCL	J
SW8270SIM	SOIL	AOC6-8-14015						
			1-Methylnaphthalene	409 Days	5.1 ug/Kg	R	HTp>UCL	R
			2-Methylnaphthalene	409 Days	5.1 ug/Kg	R	HTp>UCL	R
			Acenaphthene	409 Days	5.1 ug/Kg	R	HTp>UCL	R
			Acenaphthylene	409 Days	5.1 ug/Kg	R	HTp>UCL	R
			Anthracene	409 Days	5.1 ug/Kg	R	HTp>UCL	R
			Benzo (a) anthracene	409 Days	8.1 ug/Kg	J	HTp>UCL	J
			Benzo (a) pyrene	409 Days	12 ug/Kg	J	HTp>UCL	J
			Benzo (b) fluoranthene	409 Days	26 ug/Kg	J	HTp>UCL	J
			Benzo (g,h,i) perylene	409 Days	5.1 ug/Kg	R	HTp>UCL	R
			Benzo (k) fluoranthene	409 Days	12 ug/Kg	J	HTp>UCL	J
			Chrysene	409 Days	12 ug/Kg	J	HTp>UCL	J
			Dibenzo (a,h) anthracene	409 Days	5.1 ug/Kg	R	HTp>UCL	R
			Fluoranthene	409 Days	19 ug/Kg	J	HTp>UCL	J
			Fluorene	409 Days	5.1 ug/Kg	R	HTp>UCL	R
			Indeno (1,2,3-c,d) pyrene	409 Days	5.1 ug/Kg	R	HTp>UCL	R

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 6								
SW8270SIM	SOIL	AOC6-8-14015						
			Naphthalene	409 Days	5.1 ug/Kg	R	HTp>UCL	R
			Phenanthrene	409 Days	7.1 ug/Kg	J	HTp>UCL	J
			Pyrene	409 Days	18 ug/Kg	J	HTp>UCL	J
SW8290	SOIL	AOC6-2-14003						
			1,2,3,4,6,7,8-Heptachlorodibenzofuran	437 Days	390 PG/G	J	HTp>UCL	J
			1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	437 Days	4300 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8,9-Heptachlorodibenzofuran	437 Days	28 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzofuran	437 Days	25 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	437 Days	25 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzofuran	437 Days	18 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	437 Days	110 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzofuran	437 Days	9.6 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	437 Days	47 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzofuran	437 Days	9.7 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzo-p-dioxin	437 Days	15 PG/G	UJ	HTp>UCL	UJ
			2,3,4,6,7,8-Hexachlorodibenzofuran	437 Days	840 PG/G	UJ	HTp>UCL	UJ
			2,3,4,7,8-Pentachlorodibenzofuran	437 Days	9.7 PG/G	J	HTp>UCL	J
			2,3,7,8-Tetrachlorodibenzofuran	437 Days	5.6 PG/G	J	HTp>UCL	J
			2,3,7,8-Tetrachlorodibenzo-p-dioxin	437 Days	2.1 PG/G	UJ	HTp>UCL	UJ
			OCDD	437 Days	31000 PG/G	J	HTp>UCL	J
			OCDF	437 Days	1200 PG/G	J	HTp>UCL	J
			TEQ	437 Days	14 PG/G	J	HTp>UCL	J
SW8290	SOIL	AOC6-2-14004						
			1,2,3,4,6,7,8-Heptachlorodibenzofuran	437 Days	120 PG/G	J	HTp>UCL	J

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 6								
SW8290	SOIL	AOC6-2-14004						
			1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	437 Days	1400 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8,9-Heptachlorodibenzofuran	437 Days	8.9 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzofuran	437 Days	8.8 PG/G	UJ	HTp>UCL	UJ
			1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	437 Days	8.8 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzofuran	437 Days	6.8 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	437 Days	39 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzofuran	437 Days	3.2 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	437 Days	16 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzofuran	437 Days	5.1 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzo-p-dioxin	437 Days	5.4 PG/G	UJ	HTp>UCL	UJ
			2,3,4,6,7,8-Hexachlorodibenzofuran	437 Days	240 PG/G	UJ	HTp>UCL	UJ
			2,3,4,7,8-Pentachlorodibenzofuran	437 Days	4.3 PG/G	J	HTp>UCL	J
			2,3,7,8-Tetrachlorodibenzofuran	437 Days	0.24 PG/G	UJ	HTp>UCL	UJ
			2,3,7,8-Tetrachlorodibenzo-p-dioxin	437 Days	0.76 PG/G	UJ	HTp>UCL	UJ
			OCDD	437 Days	17000 PG/G	J	HTp>UCL	J
			OCDF	437 Days	350 PG/G	J	HTp>UCL	J
			TEQ	437 Days	5.4 PG/G	J	HTp>UCL	J
SW8290	SOIL	AOC6-4-14008						
			1,2,3,4,6,7,8-Heptachlorodibenzofuran	437 Days	230 PG/G	J	HTp>UCL	J
			1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	437 Days	2300 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8,9-Heptachlorodibenzofuran	437 Days	16 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzofuran	437 Days	19 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	437 Days	15 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzofuran	437 Days	13 PG/G	UJ	HTp>UCL	UJ

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 6								
SW8290	SOIL	AOC6-4-14008						
			1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	437 Days	66 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzofuran	437 Days	4.5 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	437 Days	26 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzofuran	437 Days	11 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzo-p-dioxin	437 Days	9.2 PG/G	UJ	HTp>UCL	UJ
			2,3,4,6,7,8-Hexachlorodibenzofuran	437 Days	380 PG/G	UJ	HTp>UCL	UJ
			2,3,4,7,8-Pentachlorodibenzofuran	437 Days	7.8 PG/G	J	HTp>UCL	J
			2,3,7,8-Tetrachlorodibenzofuran	437 Days	6 PG/G	UJ	HTp>UCL	UJ
			2,3,7,8-Tetrachlorodibenzo-p-dioxin	437 Days	1.1 PG/G	UJ	HTp>UCL	UJ
			OCDD	437 Days	24000 PG/G	J	HTp>UCL	J
			OCDF	437 Days	550 PG/G	J	HTp>UCL	J
			TEQ	437 Days	9.4 PG/G	J	HTp>UCL	J
SW8290	SOIL	AOC6-7-14013						
			1,2,3,4,6,7,8-Heptachlorodibenzofuran	438 Days	1900 PG/G	J	HTp>UCL	J
			1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	438 Days	15000 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8,9-Heptachlorodibenzofuran	438 Days	140 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzofuran	438 Days	88 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	438 Days	62 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzofuran	438 Days	270 PG/G	UJ	HTp>UCL	UJ
			1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	438 Days	450 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzofuran	438 Days	18 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	438 Days	83 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzofuran	438 Days	14 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzo-p-dioxin	438 Days	31 PG/G	UJ	HTp>UCL	UJ

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 6								
SW8290	SOIL	AOC6-7-14013						
			2,3,4,6,7,8-Hexachlorodibenzofuran	438 Days	77 PG/G	J	HTp>UCL	J
			2,3,4,7,8-Pentachlorodibenzofuran	438 Days	35 PG/G	UJ	HTp>UCL	UJ
			2,3,7,8-Tetrachlorodibenzofuran	438 Days	7.6 PG/G	UJ	HTp>UCL	UJ
			2,3,7,8-Tetrachlorodibenzo-p-dioxin	438 Days	2.3 PG/G	UJ	HTp>UCL	UJ
			OCDD	438 Days	250000 PG/G	J	HTp>UCL	J
			OCDF	438 Days	11000 PG/G	J	HTp>UCL	J
			TEQ	438 Days	22 PG/G	J	HTp>UCL	J
SW8290	SOIL	AOC6-7-14014						
			1,2,3,4,6,7,8-Heptachlorodibenzofuran	438 Days	2800 PG/G	J	HTp>UCL	J
			1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	438 Days	15000 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8,9-Heptachlorodibenzofuran	438 Days	200 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzofuran	438 Days	150 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	438 Days	57 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzofuran	438 Days	41 PG/G	UJ	HTp>UCL	UJ
			1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	438 Days	650 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzofuran	438 Days	52 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	438 Days	97 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzofuran	438 Days	32 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzo-p-dioxin	438 Days	29 PG/G	J	HTp>UCL	J
			2,3,4,6,7,8-Hexachlorodibenzofuran	438 Days	6600 PG/G	UJ	HTp>UCL	UJ
			2,3,4,7,8-Pentachlorodibenzofuran	438 Days	47 PG/G	J	HTp>UCL	J
			2,3,7,8-Tetrachlorodibenzofuran	438 Days	0.64 PG/G	UJ	HTp>UCL	UJ
			2,3,7,8-Tetrachlorodibenzo-p-dioxin	438 Days	3.3 PG/G	UJ	HTp>UCL	UJ
			OCDD	438 Days	230000 PG/G	J	HTp>UCL	J

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: AOC 6								
SW8290	SOIL	AOC6-7-14014						
			OCDF	438 Days	17000 PG/G	J	HTp>UCL	J
			TEQ	438 Days	87 PG/G	J	HTp>UCL	J
SW8290	SOIL	AOC6-8-14015						
			1,2,3,4,6,7,8-Heptachlorodibenzofuran	432 Days	100 PG/G	J	HTp>UCL	J
			1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	432 Days	1000 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8,9-Heptachlorodibenzofuran	432 Days	7.7 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzofuran	432 Days	9.2 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	432 Days	6.1 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzofuran	432 Days	4.6 PG/G	J	HTp>UCL	J
			1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	432 Days	29 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzofuran	432 Days	2.1 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	432 Days	8.9 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzofuran	432 Days	4.1 PG/G	UJ	HTp>UCL	UJ
			1,2,3,7,8-Pentachlorodibenzo-p-dioxin	432 Days	2.6 PG/G	UJ	HTp>UCL	UJ
			2,3,4,6,7,8-Hexachlorodibenzofuran	432 Days	200 PG/G	UJ	HTp>UCL	UJ
			2,3,4,7,8-Pentachlorodibenzofuran	432 Days	5 PG/G	J	HTp>UCL	J
			2,3,7,8-Tetrachlorodibenzofuran	432 Days	0.42 PG/G	UJ	HTp>UCL	UJ
			2,3,7,8-Tetrachlorodibenzo-p-dioxin	432 Days	0.36 PG/G	UJ	HTp>UCL	UJ
			OCDD	432 Days	14000 PG/G	J	HTp>UCL	J
			OCDF	432 Days	290 PG/G	J	HTp>UCL	J
			TEQ	432 Days	5.4 PG/G	J	HTp>UCL	J
Site: Storm Drain								
SW9014	SOIL	CB-13-01						
			Cyanide, add	46 Days	0.24 MG/KG	UJ	HT>UCL	UJ

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: Storm Drain								
SW9014	SOIL	SD-14-01						
			Cyanide, add	15 Days	0.208 MG/KG	UJ	HT>UCL	UJ
SW9014	SOIL	SD-14-03						
			Cyanide, add	15 Days	0.208 MG/KG	UJ	HT>UCL	UJ
SW9014	SOIL	SD-14-06						
			Cyanide, add	15 Days	0.224 MG/KG	UJ	HT>UCL	UJ
SW9014	SOIL	SD-14-10						
			Cyanide, add	15 Days	0.211 MG/KG	UJ	HT>UCL	UJ
Site: SWMU 1								
SW8290	SOIL	SWMU1-19-1117						
			1,2,3,4,6,7,8-Heptachlorodibenzofuran	366 Days	100 PG/G	J	HTp>UCL	J
			1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	366 Days	1100 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8,9-Heptachlorodibenzofuran	366 Days	9.1 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8-Hexachlorodibenzofuran	366 Days	6.2 PG/G	UJ	HTp>UCL	UJ
			1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	366 Days	6.4 PG/G	UJ	HTp>UCL	UJ
			1,2,3,6,7,8-Hexachlorodibenzofuran	366 Days	9.1 PG/G	UJ	HTp>UCL	UJ
			1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	366 Days	40 PG/G	J	HTp>UCL	J
			1,2,3,7,8,9-Hexachlorodibenzofuran	366 Days	7.1 PG/G	UJ	HTp>UCL	UJ
			1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	366 Days	12 PG/G	J	HTp>UCL	J
			1,2,3,7,8-Pentachlorodibenzofuran	366 Days	1.9 PG/G	UJ	HTp>UCL	UJ
			1,2,3,7,8-Pentachlorodibenzo-p-dioxin	366 Days	3 PG/G	J	HTp>UCL	J
			2,3,4,6,7,8-Hexachlorodibenzofuran	366 Days	700 PG/G	UJ	HTp>UCL	UJ
			2,3,4,7,8-Pentachlorodibenzofuran	366 Days	5.6 PG/G	J	HTp>UCL	J
			2,3,7,8-Tetrachlorodibenzofuran	366 Days	0.9 PG/G	J	HTp>UCL	J
			2,3,7,8-Tetrachlorodibenzo-p-dioxin	366 Days	0.48 PG/G	UJ	HTp>UCL	UJ

TABLE A1

Holding Times - Qualified Data

Method	Matrix	Sample Identification	Analyte	Holding Time	Result	Holding Time Qualifier	Criteria	Final Flag*
Site: SWMU 1								
SW8290	SOIL	SWMU1-19-1117						
			OCDD	366 Days	15000 PG/G	J	HTp>UCL	J
			OCDF	366 Days	120 PG/G	J	HTp>UCL	J
			TEQ	366 Days	8.4 PG/G	J	HTp>UCL	J
SW8290	SOIL	SWMU1-19-1118						
			1,2,3,4,6,7,8-Heptachlorodibenzofuran	366 Days	2.4 PG/G	UJ	HTp>UCL	UJ
			1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	366 Days	25 PG/G	J	HTp>UCL	J
			1,2,3,4,7,8,9-Heptachlorodibenzofuran	366 Days	2.8 PG/G	UJ	HTp>UCL	UJ
			1,2,3,4,7,8-Hexachlorodibenzofuran	366 Days	0.11 PG/G	UJ	HTp>UCL	UJ
			1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	366 Days	0.11 PG/G	UJ	HTp>UCL	UJ
			1,2,3,6,7,8-Hexachlorodibenzofuran	366 Days	0.24 PG/G	UJ	HTp>UCL	UJ
			1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	366 Days	0.12 PG/G	UJ	HTp>UCL	UJ
			1,2,3,7,8,9-Hexachlorodibenzofuran	366 Days	0.13 PG/G	UJ	HTp>UCL	UJ
			1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	366 Days	0.27 PG/G	UJ	HTp>UCL	UJ
			1,2,3,7,8-Pentachlorodibenzofuran	366 Days	0.087 PG/G	UJ	HTp>UCL	UJ
			1,2,3,7,8-Pentachlorodibenzo-p-dioxin	366 Days	0.079 PG/G	UJ	HTp>UCL	UJ
			2,3,4,6,7,8-Hexachlorodibenzofuran	366 Days	29 PG/G	UJ	HTp>UCL	UJ
			2,3,4,7,8-Pentachlorodibenzofuran	366 Days	0.13 PG/G	UJ	HTp>UCL	UJ
			2,3,7,8-Tetrachlorodibenzofuran	366 Days	0.046 PG/G	UJ	HTp>UCL	UJ
			2,3,7,8-Tetrachlorodibenzo-p-dioxin	366 Days	0.07 PG/G	UJ	HTp>UCL	UJ
			OCDD	366 Days	340 PG/G	J	HTp>UCL	J
			OCDF	366 Days	1.7 PG/G	J	HTp>UCL	J
			TEQ	366 Days	0.013 PG/G	J	HTp>UCL	J

TABLE A1

Holding Times - Qualified Data

% = percent

mg/Kg = milligrams per kilogram

PG/G = picograms per gram

ug/Kg = micrograms per kilogram

* 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.

R = The data are unusable because of deficiencies in the ability to analyze the sample and meet quality control (QC) criteria.

UJ = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL). The quantitation is an estimate.

Criteria:

HT>UCL = Holding time exceeded (analytical)

HTp>UCL = Holding time exceeded (sample preparation)

TABLE A2

Blank Contamination - Qualified Data

Analyte	Sample Identification	Result	Blank Contamination Qualifier*	Criteria	Comments
Site: AOC 1					
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,6,7,8-Heptachlorodibenzofuran					
	AOC1-5-365	9.5 PG/G	U	LB<RL	blank target = 2.1PG/G
	AOC1-6-371	10 PG/G	U	LB<RL	blank target = 2.1PG/G
	AOC1-6-372	1.1 PG/G	U	LB<RL	blank target = 2.1PG/G
	AOC1-7-378	1.3 PG/G	U	LB<RL	blank target = 0.8PG/G
	AOC1-BCW27-257	0.095 PG/G	U	LB<RL	blank target = 0.12PG/G
	AOC1-T1e-290	3 PG/G	U	LB<RL	blank target = 0.76PG/G
	AOC1-T1e-292	3.6 PG/G	U	LB<RL	blank target = 0.76PG/G
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin					
	AOC1-BCW10-190	1.7 PG/G	U	LB<RL	blank target = 0.93PG/G
	AOC1-BCW10-191	0.88 PG/G	U	LB<RL	blank target = 0.93PG/G
	AOC1-BCW13-202	1.8 PG/G	U	LB<RL	blank target = 0.93PG/G
	AOC1-BCW13-203	2.3 PG/G	U	LB<RL	blank target = 0.93PG/G
	AOC1-BCW16-215	1.9 PG/G	U	LB<RL	blank target = 0.51PG/G
	AOC1-BCW18-222	0.29 PG/G	U	LB<RL	blank target = 0.8PG/G
	AOC1-BCW20-230	3.1 PG/G	U	LB<RL	blank target = 0.8PG/G
	AOC1-BCW20-231	0.61 PG/G	U	LB<RL	blank target = 0.8PG/G
	AOC1-BCW21-234	1 PG/G	U	LB<RL	blank target = 0.93PG/G
	AOC1-BCW21-235	0.73 PG/G	U	LB<RL	blank target = 0.93PG/G
	AOC1-BCW7-275	2.7 PG/G	U	LB<RL	blank target = 0.93PG/G
	AOC1-T6D-315	0.74 PG/G	U	LB<RL	blank target = 0.51PG/G
	AOC1-T6D-316	1.1 PG/G	U	LB<RL	blank target = 0.51PG/G
1,2,3,4,7,8,9-Heptachlorodibenzofuran					
	AOC1-5-365	1.4 PG/G	U	LB<RL	blank target = 2PG/G
	AOC1-6-370	4.5 PG/G	U	LB<RL	blank target = 2PG/G
	AOC1-BCW26-253	1.7 PG/G	U	LB<RL	blank target = 1.3PG/G
1,2,3,7,8,9-Hexachlorodibenzofuran					
	AOC1-BCW14-204	3.7 PG/G	U	LB<RL	blank target = 1.1PG/G
	AOC1-T7-356	0.43 PG/G	U	LB<RL	blank target = 0.2PG/G
	AOC1-T7-358	0.93 PG/G	U	LB<RL	blank target = 0.2PG/G
1,2,3,7,8-Pentachlorodibenzofuran					
	AOC1-T2h-330	0.81 PG/G	U	LB<RL	blank target = 0.27PG/G

TABLE A2

Blank Contamination - Qualified Data

Analyte	Sample Identification	Result	Blank Contamination Qualifier*	Criteria	Comments
Site: AOC 1					
Method (Matrix): SW8290 (SOIL)					
2,3,4,7,8-Pentachlorodibenzofuran					
	AOC1-T1g-351	0.5 PG/G	U	LB<RL	blank target = 0.16PG/G
	AOC1-T1g-352	0.57 PG/G	U	LB<RL	blank target = 0.16PG/G
OCDD					
	AOC1-5-366	44 PG/G	U	LB<RL	blank target = 15PG/G
	AOC1-6-372	75 PG/G	U	LB<RL	blank target = 15PG/G
	AOC1-6-373	41 PG/G	U	LB<RL	blank target = 15PG/G
	AOC1-6-374	30 PG/G	U	LB<RL	blank target = 15PG/G
	AOC1-BCW10-190	14 PG/G	U	LB<RL	blank target = 6PG/G
	AOC1-BCW10-191	3.8 PG/G	U	LB<RL	blank target = 6PG/G
	AOC1-BCW11-195	13 PG/G	U	LB<RL	blank target = 6PG/G
	AOC1-BCW13-202	12 PG/G	U	LB<RL	blank target = 6PG/G
	AOC1-BCW13-203	7.6 PG/G	U	LB<RL	blank target = 6PG/G
	AOC1-BCW16-215	6.4 PG/G	U	LB<RL	blank target = 2.1PG/G
	AOC1-BCW17-217	24 PG/G	U	LB<RL	blank target = 18PG/G
	AOC1-BCW18-221	9.5 PG/G	U	LB<RL	blank target = 8.1PG/G
	AOC1-BCW20-229	21 PG/G	U	LB<RL	blank target = 8.1PG/G
	AOC1-BCW20-230	13 PG/G	U	LB<RL	blank target = 8.1PG/G
	AOC1-BCW20-231	2 PG/G	U	LB<RL	blank target = 8.1PG/G
	AOC1-BCW21-234	5.6 PG/G	U	LB<RL	blank target = 6PG/G
	AOC1-BCW21-235	3.4 PG/G	U	LB<RL	blank target = 6PG/G
	AOC1-BCW25-251	1.8 PG/G	U	LB<RL	blank target = 0.6PG/G
	AOC1-BCW26-253	120 PG/G	U	LB>RL	blank target = 62PG/G
	AOC1-BCW27-259	1.5 PG/G	U	LB<RL	blank target = 0.6PG/G
	AOC1-BCW28-263	1.8 PG/G	U	LB<RL	blank target = 0.6PG/G
	AOC1-BCW7-275	23 PG/G	U	LB<RL	blank target = 6PG/G
	AOC1-T6D-315	4.5 PG/G	U	LB<RL	blank target = 2.1PG/G
	AOC1-T6D-316	4.6 PG/G	U	LB<RL	blank target = 2.1PG/G
OCDF					
	AOC1-5-366	1.3 PG/G	U	LB<RL	blank target = 3.9PG/G
	AOC1-5-368	4.4 PG/G	U	LB<RL	blank target = 3.9PG/G
	AOC1-6-374	1.6 PG/G	U	LB<RL	blank target = 3.9PG/G
	AOC1-BCW13-202	0.4 PG/G	U	LB<RL	blank target = 0.25PG/G

TABLE A2

Blank Contamination - Qualified Data

Analyte	Sample Identification	Result	Blank Contamination Qualifier*	Criteria	Comments
Site: AOC 1					
Method (Matrix): SW8290 (SOIL)					
	AOC1-BCW26-253	3.4 PG/G	U	LB<RL	blank target = 2.7PG/G
	AOC1-BCW29-266	1.1 PG/G	U	LB<RL	blank target = 0.29PG/G
	AOC1-BCW7-275	0.6 PG/G	U	LB<RL	blank target = 0.25PG/G
	AOC1-T1e-291	1.2 PG/G	U	LB<RL	blank target = 1PG/G
	AOC1-T1e-292	4.9 PG/G	U	LB<RL	blank target = 1PG/G
	AOC1-T1f-297	0.5 PG/G	U	LB<RL	blank target = 1PG/G
Site: AOC 27					
Method (Matrix): SW8290 (SOIL)					
OCDD					
	AOC27-51-28558	29 PG/G	U	LB<RL	blank target = 7.4PG/G
	AOC27-51-28559	27 PG/G	U	LB<RL	blank target = 7.4PG/G
OCDF					
	AOC27-51-28559	0.85 PG/G	U	LB<RL	blank target = 0.4PG/G
Site: AOC 4					
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin					
	AOC4-BCW2-3133	0.79 PG/G	U	LB<RL	blank target = 0.43PG/G
	AOC4-BCW2-3134	0.5 PG/G	U	LB<RL	blank target = 0.43PG/G
OCDD					
	AOC4-BCW1-3129	4.4 PG/G	U	LB<RL	blank target = 0.97PG/G
	AOC4-BCW2-3131	0.99 PG/G	U	LB<RL	blank target = 0.97PG/G
Site: AOC 6					
Method (Matrix): SW9014 (SOIL)					
Cyanide, add					
	AOC6-7-14021	0.214 MG/KG	UJ	TEMP>6C	
Site: Storm Drain					
Method (Matrix): SW8290 (SOIL)					
2,3,7,8-Tetrachlorodibenzofuran					
	SD-14-03	1.4 PG/G	U	LB<RL	blank target = 0.32PG/G
	SD-14-10	0.32 PG/G	U	LB<RL	blank target = 0.32PG/G
2,3,7,8-Tetrachlorodibenzo-p-dioxin					

TABLE A2

Blank Contamination - Qualified Data

Analyte	Sample Identification	Result	Blank Contamination Qualifier*	Criteria	Comments
Site: Storm Drain					
Method (Matrix): SW8290 (SOIL)					
	SD-14-03	1.4 PG/G	U	LB<RL	blank target = 0.39PG/G
Site: SWMU 1					
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,6,7,8-Heptachlorodibenzofuran					
	SWMU1-26-1161	2.8 PG/G	U	LB<RL	blank target = 0.8PG/G
2,3,7,8-Tetrachlorodibenzo-p-dioxin					
	SWMU1-19-1116	0.97 PG/G	U	LB<RL	blank target = 0.39PG/G
OCDD					
	SWMU1-20-1128	71 PG/G	U	LB<RL	blank target = 18PG/G
	SWMU1-27-1168	22 PG/G	U	LB<RL	blank target = 15PG/G
	SWMU1-27-1170	12 PG/G	U	LB<RL	blank target = 15PG/G
OCDF					
	SWMU1-27-1166	4.6 PG/G	U	LB<RL	blank target = 3.9PG/G
	SWMU1-27-1168	0.78 PG/G	U	LB<RL	blank target = 3.9PG/G
	SWMU1-27-1169	1.3 PG/G	U	LB<RL	blank target = 3.9PG/G
Method (Matrix): SW9014 (SOIL)					
Cyanide, add					
	SWMU1-28-1172	0.204 MG/KG	UJ	TEMP>6C	
	SWMU1-29-1175	0.203 MG/KG	UJ	TEMP>6C	

MG/KG = milligrams per kilogram

PG/G = picograms per gram

Blank target = concentration of field or laboratory blank.

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

Qualifier Description:

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL).

UJ = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL). The quantitation is an estimate.

Criteria:

LB<RL = Laboratory blank contamination less than the RL

LB>RL = Laboratory blank contamination greater than the RL

TEMP>6C = Temperature Blank>6C<8C

TABLE A3

Calibration Criteria - Qualified Data

Analyte	Sample Identification	Result	Calibration Qualifier*	Criteria	Validation Comments
Site: AOC 1					
Method (Matrix): SW8081A (SOIL)					
4,4'-DDT	AOC1-T2g-328	2.1 ug/Kg	UJ	CCV<LCL	%D -37.9 vs. 15
Endosulfan sulfate	AOC1-T2g-328	2.1 ug/Kg	UJ	CCV<LCL	%D -19.9 vs. 15
Endrin	AOC1-T2g-328	2.1 ug/Kg	UJ	CCV<LCL	%D -19.4 vs. 15
Heptachlor	AOC1-T2g-328	1.1 ug/Kg	UJ	CCV<LCL	%D -18.6 vs. 15
Methoxychlor	AOC1-T2g-328	5.3 ug/Kg	UJ	CCV<LCL	%D -39.9 vs. 15
Toxaphene	AOC1-T2g-328	53 ug/Kg	UJ	CCV<LCL	%D -20.02 vs. 15
Method (Matrix): SW8082 (SOIL)					
Aroclor 1242	AOC1-7-375	17 ug/Kg	UJ	CCV<LCL	%D -22.44 vs. 15
	AOC1-7-376	17 ug/Kg	UJ	CCV<LCL	%D -22.44 vs. 15
	AOC1-7-377	17 ug/Kg	UJ	CCV<LCL	%D -22.44 vs. 15
	AOC1-7-378	17 ug/Kg	UJ	CCV<LCL	%D -22.44 vs. 15
	AOC1-7-379	17 ug/Kg	UJ	CCV<LCL	%D -22.44 vs. 15
	AOC1-7-380	17 ug/Kg	UJ	CCV<LCL	%D -22.44 vs. 15
Aroclor 1248	AOC1-7-375	17 ug/Kg	UJ	CCV<LCL	%D -22.76 vs. 15
	AOC1-7-376	17 ug/Kg	UJ	CCV<LCL	%D -22.76 vs. 15
	AOC1-7-377	17 ug/Kg	UJ	CCV<LCL	%D -22.76 vs. 15
	AOC1-7-378	17 ug/Kg	UJ	CCV<LCL	%D -22.76 vs. 15
	AOC1-7-379	17 ug/Kg	UJ	CCV<LCL	%D -22.76 vs. 15
	AOC1-7-380	17 ug/Kg	UJ	CCV<LCL	%D -22.76 vs. 15
Aroclor 1254	AOC1-7-375	17 ug/Kg	UJ	CCV<LCL	%D -15.42 vs. 15
	AOC1-7-376	17 ug/Kg	UJ	CCV<LCL	%D -15.42 vs. 15
	AOC1-7-377	17 ug/Kg	UJ	CCV<LCL	%D -15.42 vs. 15
	AOC1-7-378	17 ug/Kg	UJ	CCV<LCL	%D -15.42 vs. 15
	AOC1-7-379	17 ug/Kg	UJ	CCV<LCL	%D -15.42 vs. 15
	AOC1-7-380	17 ug/Kg	UJ	CCV<LCL	%D -15.42 vs. 15
Method (Matrix): SW8260B (SOIL)					
Methyl Acetate, add	AOC1-T7-356	5.3 ug/Kg	UJ	CCV<LCL	%D -21.5 vs. 20
Method (Matrix): SW8270C (SOIL)					

TABLE A3

Calibration Criteria - Qualified Data

Analyte	Sample Identification	Result	Calibration Qualifier*	Criteria	Validation Comments
Site: AOC 1					
Method (Matrix): SW8270C (SOIL)					
2,4-Dinitrophenol	TCS-4-01	1700 ug/Kg	UJ	CCV<LCL	%D -28.7 vs. 20
	TCS-4-02	1700 ug/Kg	UJ	CCV<LCL	%D -28.7 vs. 20
Pentachlorophenol	TCS-4-01	1700 ug/Kg	UJ	CCV<LCL	%D -23.3 vs. 20
	TCS-4-02	1700 ug/Kg	UJ	CCV<LCL	%D -23.3 vs. 20
Site: AOC 13					
Method (Matrix): SW8082 (SOIL)					
Aroclor 1242	AOC13-33-DEBRIS	18 ug/Kg	UJ	CCV<LCL	%D -16.4 vs. 15
	AOC13-33-SCALE	18 ug/Kg	UJ	CCV<LCL	%D -15.68 vs. 15
Method (Matrix): SW8270SIM (SOIL)					
Benzo (a) anthracene	AOC13-33-17078	620 ug/Kg	J	CCV>UCL	%D +20.3 vs. 20
	AOC13-33-DEBRIS	160 ug/Kg	J	CCV>UCL	%D +20.2 vs. 20
	AOC13-33-SCALE	200 ug/Kg	J	CCV>UCL	%D +20.2 vs. 20
Phenanthrene	AOC13-33-17078	980 ug/Kg	J	CCV>UCL	%D +20.3 vs. 20
Method (Matrix): SW8290 (SOIL)					
OCDD	AOC13-33-17077	680000 PG/G	J	NoCAL	Tune mass resolution out
	AOC13-33-17078	380000 PG/G	J	NoCAL	Tune mass resolution out
Site: AOC 20					
Method (Matrix): SW8270SIM (SOIL)					
Benzo (k) fluoranthene	AOC20-09-OS1-1002	33 ug/Kg	J	CCV>UCL	%D +22.1 vs. 20
	AOC20-09-OS1-1003	55 ug/Kg	J	CCV>UCL	%D +22.1 vs. 20
Site: AOC 27					
Method (Matrix): SW8260B (SOIL)					
Methyl Acetate, add	AOC27-51-28557	6.5 ug/Kg	UJ	CCV<LCL	%D -21.5 vs. 20
Method (Matrix): SW8270SIM (SOIL)					
Benzo (a) anthracene	AOC27-51-28557	490 ug/Kg	J	CCV>UCL	%D +23.7 vs. 20
Site: AOC 6					
Method (Matrix): SW8082 (SOIL)					

TABLE A3

Calibration Criteria - Qualified Data

Analyte	Sample Identification	Result	Calibration Qualifier*	Criteria	Validation Comments
Site: AOC 6					
Method (Matrix): SW8082 (SOIL)					
Aroclor 1242	AOC6-5-14010	17 ug/Kg	UJ	CCV<LCL	%D -18.44 vs. 15
	AOC6-5-14010	17 ug/Kg	UJ	CCV<LCL	%D -18.04 vs. 15
	AOC6-5-14011	17 ug/Kg	UJ	CCV<LCL	%D -18.04 vs. 15
	AOC6-5-14011	17 ug/Kg	UJ	CCV<LCL	%D -18.44 vs. 15
	AOC6-7-14021	18 ug/Kg	UJ	CCV<LCL	%D -17.62 vs. 15
	AOC6-7-14022	17 ug/Kg	UJ	CCV<LCL	%D -18.66 vs. 15
Aroclor 1248	AOC6-7-14021	18 ug/Kg	UJ	CCV<LCL	%D -18.54 vs. 15
	AOC6-7-14022	17 ug/Kg	UJ	CCV<LCL	%D -15.48 vs. 15
Site: Storm Drain					
Method (Matrix): SW8270SIM (SOIL)					
Benzo (a) anthracene	SD-31-01	1300 ug/Kg	J	CCV>UCL	%D +20.3 vs. 20
	SD-31-02	1700 ug/Kg	J	CCV>UCL	%D +20.3 vs. 20
Phenanthrene	SD-31-01	840 ug/Kg	J	CCV>UCL	%D +20.3 vs. 20
	SD-31-02	1000 ug/Kg	J	CCV>UCL	%D +20.3 vs. 20
Site: SWMU 1					
Method (Matrix): SW8260B (SOIL)					
Methyl Acetate, add	SWMU1-28-1172	5.7 ug/Kg	UJ	CCV<LCL	%D -21.5 vs. 20
	SWMU1-29-1175	6.8 ug/Kg	UJ	CCV<LCL	%D -21.5 vs. 20
Method (Matrix): SW8290 (SOIL)					
OCDD	SWMU1-29-1176	48000 PG/G	J	NoCAL	Tune mass resolution out

TABLE A3

Calibration Criteria - Qualified Data

%D = percent difference

PG/G = picograms per gram

ug/Kg = micrograms per kilogram

* 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.

UJ = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL). The quantitation is an estimate.

Criteria:

CCV<LCL	=	Continuing calibration recovery less than lower control limit
CCV>UCL	=	Continuing calibration recovery greater than upper control limit
NoCAL	=	No calibration analyzed in the analytical batch

TABLE A4

Field Duplicate Precision - Qualified Data

Analyte	Sample Identification	Result	Field Duplicate Qualifier*	Criteria	Validation Comments
Site: AOC 1					
Method (Matrix): SW6010B (SOIL)					
Barium	AOC1-BCW7-278	460 mg/Kg	J	FD>RPD	74.63 vs 20
	AOC1-BCW7-279	210 mg/Kg	J	FD>RPD	74.63 vs 20
	AOC1-T2j-344	80 mg/Kg	J	FD>RPD	20.69 vs 20
	AOC1-T2j-345	65 mg/Kg	J	FD>RPD	20.69 vs 20
	AOC1-T5D-310	120 mg/Kg	J	FD>RPD	27.49 vs 20
	AOC1-T5D-311	91 mg/Kg	J	FD>RPD	27.49 vs 20
	AOC1-T6D-317	72 mg/Kg	J	FD>RPD	23.31 vs 20
	AOC1-T6D-318	91 mg/Kg	J	FD>RPD	23.31 vs 20
Chromium	AOC1-2-163	16 mg/Kg	J	FD>RPD	20.69 vs 20
	AOC1-2-164	13 mg/Kg	J	FD>RPD	20.69 vs 20
	AOC1-BCW10-190	25 mg/Kg	J	FD>RPD	27.27 vs 20
	AOC1-BCW10-191	19 mg/Kg	J	FD>RPD	27.27 vs 20
	AOC1-BCW8-283	15 mg/Kg	J	FD>RPD	30.77 vs 20
	AOC1-BCW8-284	11 mg/Kg	J	FD>RPD	30.77 vs 20
	AOC1-T1f-298	18 mg/Kg	J	FD>RPD	50 vs 20
	AOC1-T1f-299	30 mg/Kg	J	FD>RPD	50 vs 20
	AOC1-T2j-349	22 mg/Kg	J	FD>RPD	30.77 vs 20
	AOC1-T2j-350	30 mg/Kg	J	FD>RPD	30.77 vs 20
	AOC1-T5D-305	120 mg/Kg	J	FD>RPD	53.97 vs 20
	AOC1-T5D-306	69 mg/Kg	J	FD>RPD	53.97 vs 20
	AOC1-T8-363	13 mg/Kg	J	FD>RPD	26.67 vs 20
	AOC1-T8-364	17 mg/Kg	J	FD>RPD	26.67 vs 20
Cobalt	AOC1-T1f-298	11 mg/Kg	J	FD>RPD	29.17 vs 20
	AOC1-T1f-299	8.2 mg/Kg	J	FD>RPD	29.17 vs 20
	AOC1-T2j-344	8.3 mg/Kg	J	FD>RPD	24.32 vs 20
	AOC1-T2j-345	6.5 mg/Kg	J	FD>RPD	24.32 vs 20
Copper	TCS4-E-05	16 mg/Kg	J	FD>RPD	28.57 vs 20
	TCS4-E-05D	12 mg/Kg	J	FD>RPD	28.57 vs 20
Nickel	AOC1-1-154	15 mg/Kg	J	FD>RPD	22.22 vs 20
	AOC1-1-155	12 mg/Kg	J	FD>RPD	22.22 vs 20

TABLE A4

Field Duplicate Precision - Qualified Data

Analyte	Sample Identification	Result	Field Duplicate Qualifier*	Criteria	Validation Comments
Site: AOC 1					
Method (Matrix): SW6010B (SOIL)					
Nickel	AOC1-2-163	12 mg/Kg	J	FD>RPD	24.3 vs 20
	AOC1-2-164	9.4 mg/Kg	J	FD>RPD	24.3 vs 20
	AOC1-T2j-349	11 mg/Kg	J	FD>RPD	24 vs 20
	AOC1-T2j-350	14 mg/Kg	J	FD>RPD	24 vs 20
	AOC1-T8-363	7.9 mg/Kg	J	FD>RPD	32.8 vs 20
	AOC1-T8-364	11 mg/Kg	J	FD>RPD	32.8 vs 20
	TCS4-E-05	10 mg/Kg	J	FD>RPD	33.92 vs 20
	TCS4-E-05D	7.1 mg/Kg	J	FD>RPD	33.92 vs 20
Vanadium	AOC1-T1f-298	36 mg/Kg	J	FD>RPD	25 vs 20
	AOC1-T1f-299	28 mg/Kg	J	FD>RPD	25 vs 20
Zinc	AOC1-T1f-298	46 mg/Kg	J	FD>RPD	27.16 vs 20
	AOC1-T1f-299	35 mg/Kg	J	FD>RPD	27.16 vs 20
	AOC1-T5D-305	100 mg/Kg	J	FD>RPD	32.56 vs 20
	AOC1-T5D-306	72 mg/Kg	J	FD>RPD	32.56 vs 20
	TCS4-E-05	190 mg/Kg	J	FD>RPD	45.16 vs 20
	TCS4-E-05D	120 mg/Kg	J	FD>RPD	45.16 vs 20
Method (Matrix): SW7199 (SOIL)					
Chromium, hexavalent	TCS4-E-05	29 mg/Kg	J	FD>RPD	53.16 vs 20
	TCS4-E-05D	50 mg/Kg	J	FD>RPD	53.16 vs 20
Method (Matrix): SW8082 (SOIL)					
Aroclor 1254	AOC1-T5D-305	110 ug/Kg	J	FD>RPD	74.29 vs 50
	AOC1-T5D-306	240 ug/Kg	J	FD>RPD	74.29 vs 50
Method (Matrix): SW8270SIM (SOIL)					
Chrysene	TCS4-E-05	73 ug/Kg	J	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 72.46 vs 0
	TCS4-E-05D	5.3 ug/Kg	UJ	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 72.46 vs 0
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	AOC1-7-376	190 PG/G	J	FD>RPD	64.81 vs 40

TABLE A4

Field Duplicate Precision - Qualified Data

Analyte	Sample Identification	Result	Field Duplicate Qualifier*	Criteria	Validation Comments
Site: AOC 1					
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	AOC1-7-377	97 PG/G	J	FD>RPD	64.81 vs 40
	AOC1-T1g-351	260 PG/G	J	FD>RPD	85.71 vs 40
	AOC1-T1g-352	650 PG/G	J	FD>RPD	85.71 vs 40
	AOC1-T2j-344	380 PG/G	J	FD>RPD	76.36 vs 40
	AOC1-T2j-345	170 PG/G	J	FD>RPD	76.36 vs 40
	AOC1-T5D-305	21000 PG/G	J	FD>RPD	70.77 vs 40
	AOC1-T5D-306	44000 PG/G	J	FD>RPD	70.77 vs 40
	TCS4-E-05	10000 PG/G	J	FD>RPD	62.07 vs 40
	TCS4-E-05D	19000 PG/G	J	FD>RPD	62.07 vs 40
1,2,3,4,7,8,9-Heptachlorodibenzofuran	AOC1-T5D-305	130 PG/G	J	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 120 vs 0
	AOC1-T5D-306	250 PG/G	UJ	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 120 vs 0
	TCS4-E-05	650 PG/G	UJ	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 220 vs 0
	TCS4-E-05D	430 PG/G	J	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 220 vs 0
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	TCS4-E-05	54 PG/G	J	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 116 vs 0
	TCS4-E-05D	170 PG/G	UJ	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 116 vs 0
OCDD	AOC1-7-376	2200 PG/G	J	FD>RPD	76.73 vs 40
	AOC1-7-377	980 PG/G	J	FD>RPD	76.73 vs 40
	AOC1-T1g-351	2000 PG/G	J	FD>RPD	110.11 vs 40
	AOC1-T1g-352	6900 PG/G	J	FD>RPD	110.11 vs 40
	AOC1-T2j-344	4000 PG/G	J	FD>RPD	96.3 vs 40
	AOC1-T2j-345	1400 PG/G	J	FD>RPD	96.3 vs 40
	TCS4-E-05	140000 PG/G	J	FD>RPD	44.44 vs 40
	TCS4-E-05D	220000 PG/G	J	FD>RPD	44.44 vs 40
OCDF	AOC1-T5D-305	11000 PG/G	J	FD>RPD	48.28 vs 40
	AOC1-T5D-306	18000 PG/G	J	FD>RPD	48.28 vs 40

TABLE A4

Field Duplicate Precision - Qualified Data

Analyte	Sample Identification	Result	Field Duplicate Qualifier*	Criteria	Validation Comments
Site: AOC 1					
Method (Matrix): SW8290 (SOIL)					
TEQ	AOC1-7-376	0.15 PG/G	J	FD>RPD	44.9 vs 40
	AOC1-7-377	0.095 PG/G	J	FD>RPD	44.9 vs 40
	AOC1-BCW10-190	0.0009 PG/G	J	FD>RPD	161.29 vs 40
	AOC1-BCW10-191	0.0084 PG/G	J	FD>RPD	161.29 vs 40
	AOC1-BCW7-273	0.15 PG/G	J	FD>RPD	66.67 vs 40
	AOC1-BCW7-274	0.075 PG/G	J	FD>RPD	66.67 vs 40
	AOC1-T2j-344	2.1 PG/G	J	FD>RPD	84.75 vs 40
	AOC1-T2j-345	0.85 PG/G	J	FD>RPD	84.75 vs 40
	AOC1-T5D-305	33 PG/G	J	FD>RPD	100.75 vs 40
	AOC1-T5D-306	100 PG/G	J	FD>RPD	100.75 vs 40
	AOC1-T6D-315	0.014 PG/G	J	FD>RPD	158.97 vs 40
	AOC1-T6D-316	0.0016 PG/G	J	FD>RPD	158.97 vs 40
Site: AOC 13					
Method (Matrix): SW6010B (SOIL)					
Barium	AOC13-33-17077	150 mg/Kg	J	FD>RPD	33.33 vs 20
	AOC13-33-17078	210 mg/Kg	J	FD>RPD	33.33 vs 20
Chromium	AOC13-33-17077	160 mg/Kg	J	FD>RPD	35.9 vs 20
	AOC13-33-17078	230 mg/Kg	J	FD>RPD	35.9 vs 20
Cobalt	AOC13-33-17077	5.3 mg/Kg	J	FD>RPD	27.64 vs 20
	AOC13-33-17078	7 mg/Kg	J	FD>RPD	27.64 vs 20
Copper	AOC13-33-17077	170 mg/Kg	J	FD>RPD	42.86 vs 20
	AOC13-33-17078	110 mg/Kg	J	FD>RPD	42.86 vs 20
Lead	AOC13-31-17058	5.6 mg/Kg	J	FD>RPD	53.59 vs 20
	AOC13-31-17059	9.7 mg/Kg	J	FD>RPD	53.59 vs 20
	AOC13-33-17077	200 mg/Kg	J	FD>RPD	97.44 vs 20
	AOC13-33-17078	580 mg/Kg	J	FD>RPD	97.44 vs 20
Nickel	AOC13-33-17077	10 mg/Kg	J	FD>RPD	26.09 vs 20
	AOC13-33-17078	13 mg/Kg	J	FD>RPD	26.09 vs 20
Zinc	AOC13-33-17077	230 mg/Kg	J	FD>RPD	70.42 vs 20

TABLE A4

Field Duplicate Precision - Qualified Data

Analyte	Sample Identification	Result	Field Duplicate Qualifier*	Criteria	Validation Comments
Site: AOC 13					
Method (Matrix): SW6010B (SOIL)					
Zinc	AOC13-33-17078	480 mg/Kg	J	FD>RPD	70.42 vs 20
Method (Matrix): SW7199 (SOIL)					
Chromium, hexavalent	AOC13-33-17077	3.7 mg/Kg	J	FD>RPD	53.47 vs 20
	AOC13-33-17078	6.4 mg/Kg	J	FD>RPD	53.47 vs 20
Method (Matrix): SW8082 (SOIL)					
Aroclor 1254	AOC13-33-17077	2600 ug/Kg	J	FD>RPD	81.08 vs 50
	AOC13-33-17078	1100 ug/Kg	J	FD>RPD	81.08 vs 50
Method (Matrix): SW8270SIM (SOIL)					
Acenaphthene	AOC13-33-17077	5.1 ug/Kg	UJ	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 33.16 vs 0
	AOC13-33-17078	34 ug/Kg	J	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 33.16 vs 0
Anthracene	AOC13-33-17077	9.3 ug/Kg	J	FD>RPD	Difference > RL X 4: 57.7 vs 20.4
	AOC13-33-17078	67 ug/Kg	J	FD>RPD	Difference > RL X 4: 57.7 vs 20.4
Benzo (a) anthracene	AOC13-33-17077	89 ug/Kg	J	FD>RPD	149.79 vs 50
	AOC13-33-17078	620 ug/Kg	J	FD>RPD	149.79 vs 50
Benzo (a) pyrene	AOC13-33-17078	350 ug/Kg	J	FD>RPD	134.93 vs 50
Benzo (b) fluoranthene	AOC13-33-17078	800 ug/Kg	J	FD>RPD	129.9 vs 50
Chrysene	AOC13-33-17077	96 ug/Kg	J	FD>RPD	144.83 vs 50
	AOC13-33-17078	600 ug/Kg	J	FD>RPD	144.83 vs 50
Fluoranthene	AOC13-33-17077	200 ug/Kg	J	FD>RPD	155.56 vs 50
	AOC13-33-17078	1600 ug/Kg	J	FD>RPD	155.56 vs 50
Fluorene	AOC13-33-17077	5.1 ug/Kg	UJ	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 26.8 vs 0
	AOC13-33-17078	28 ug/Kg	J	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 26.8 vs 0
Phenanthrene	AOC13-33-17077	120 ug/Kg	J	FD>RPD	156.36 vs 50
	AOC13-33-17078	980 ug/Kg	J	FD>RPD	156.36 vs 50

TABLE A4

Field Duplicate Precision - Qualified Data

Analyte	Sample Identification	Result	Field Duplicate Qualifier*	Criteria	Validation Comments
Site: AOC 13					
Method (Matrix): SW8270SIM (SOIL)					
Pyrene	AOC13-33-17077	170 ug/Kg	J	FD>RPD	153.74 vs 50
	AOC13-33-17078	1300 ug/Kg	J	FD>RPD	153.74 vs 50
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	AOC13-33-17077	62000 PG/G	J	FD>RPD	58.46 vs 40
	AOC13-33-17078	46000 PG/G	J	FD>RPD	58.46 vs 40
OCDD	AOC13-33-17077	680000 PG/G	J	FD>RPD	77.42 vs 40
	AOC13-33-17078	380000 PG/G	J	FD>RPD	77.42 vs 40
Site: AOC 20					
Method (Matrix): SW6010B (SOIL)					
Barium	AOC20-09-OS1-1002	180 mg/Kg	J	FD>RPD	32.26 vs 20
	AOC20-09-OS1-1003	130 mg/Kg	J	FD>RPD	32.26 vs 20
Method (Matrix): SW8082 (SOIL)					
Aroclor 1254	AOC20-09-OS1-1002	230 ug/Kg	J	FD>RPD	83.54 vs 50
	AOC20-09-OS1-1003	560 ug/Kg	J	FD>RPD	83.54 vs 50
Aroclor 1260	AOC20-09-OS1-1002	130 ug/Kg	J	FD>RPD	76.19 vs 50
	AOC20-09-OS1-1003	290 ug/Kg	J	FD>RPD	76.19 vs 50
Method (Matrix): SW8270SIM (SOIL)					
Benzo (a) pyrene	AOC20-09-OS1-1002	36 ug/Kg	J	FD>RPD	51.55 vs 50
	AOC20-09-OS1-1003	66 ug/Kg	J	FD>RPD	51.55 vs 50
Site: AOC 4					
Method (Matrix): SW6010B (SOIL)					
Barium	AOC4-BCW3-3135	92 mg/Kg	J	FD>RPD	59.54 vs 20
	AOC4-BCW3-3136	170 mg/Kg	J	FD>RPD	59.54 vs 20
Chromium	AOC4-BCW3-3135	18 mg/Kg	J	FD>RPD	90.91 vs 20
	AOC4-BCW3-3136	48 mg/Kg	J	FD>RPD	90.91 vs 20
Cobalt	AOC4-BCW3-3135	6.1 mg/Kg	J	FD>RPD	36.24 vs 20

TABLE A4

Field Duplicate Precision - Qualified Data

Analyte	Sample Identification	Result	Field Duplicate Qualifier*	Criteria	Validation Comments
Site: AOC 4					
Method (Matrix): SW6010B (SOIL)					
Cobalt	AOC4-BCW3-3136	8.8 mg/Kg	J	FD>RPD	36.24 vs 20
Copper	AOC4-BCW3-3135	13 mg/Kg	J	FD>RPD	146.94 vs 20
	AOC4-BCW3-3136	85 mg/Kg	J	FD>RPD	146.94 vs 20
Lead	AOC4-BCW3-3135	4.6 mg/Kg	J	FD>RPD	Difference > RL X 4: 6.4 vs 4.4
	AOC4-BCW3-3136	11 mg/Kg	J	FD>RPD	Difference > RL X 4: 6.4 vs 4.4
Nickel	AOC4-BCW2-3133	8.6 mg/Kg	J	FD>RPD	21.94 vs 20
	AOC4-BCW2-3134	6.9 mg/Kg	J	FD>RPD	21.94 vs 20
	AOC4-BCW3-3135	11 mg/Kg	J	FD>RPD	62.5 vs 20
	AOC4-BCW3-3136	21 mg/Kg	J	FD>RPD	62.5 vs 20
Vanadium	AOC4-BCW3-3135	24 mg/Kg	J	FD>RPD	25.45 vs 20
	AOC4-BCW3-3136	31 mg/Kg	J	FD>RPD	25.45 vs 20
Zinc	AOC4-BCW3-3135	32 mg/Kg	J	FD>RPD	57.78 vs 20
	AOC4-BCW3-3136	58 mg/Kg	J	FD>RPD	57.78 vs 20
Method (Matrix): SW7199 (SOIL)					
Chromium, hexavalent	AOC4-BCW3-3135	0.4 mg/Kg	J	FD>RPD	Difference > RL X 4: 1.9 vs 0.84
	AOC4-BCW3-3136	2.3 mg/Kg	J	FD>RPD	Difference > RL X 4: 1.9 vs 0.84
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,6,7,8-Heptachlorodibenzofuran	AOC4-BCW3-3135	340 PG/G	J	FD>RPD	64 vs 40
	AOC4-BCW3-3136	660 PG/G	J	FD>RPD	64 vs 40
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	AOC4-BCW3-3135	4500 PG/G	J	FD>RPD	50 vs 40
	AOC4-BCW3-3136	7500 PG/G	J	FD>RPD	50 vs 40
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	AOC4-BCW3-3135	110 PG/G	J	FD>RPD	42.86 vs 40
	AOC4-BCW3-3136	170 PG/G	J	FD>RPD	42.86 vs 40
OCDF	AOC4-BCW3-3135	1200 PG/G	J	FD>RPD	70.27 vs 40
	AOC4-BCW3-3136	2500 PG/G	J	FD>RPD	70.27 vs 40

TABLE A4

Field Duplicate Precision - Qualified Data

Analyte	Sample Identification	Result	Field Duplicate Qualifier*	Criteria	Validation Comments
Site: AOC 4					
Method (Matrix): SW8290 (SOIL)					
TEQ	AOC4-BCW2-3133	0.0004 PG/G	J	FD>RPD	42.42 vs 40
	AOC4-BCW2-3134	0.00026 PG/G	J	FD>RPD	42.42 vs 40
	AOC4-BCW3-3135	19 PG/G	J	FD>RPD	45.16 vs 40
	AOC4-BCW3-3136	12 PG/G	J	FD>RPD	45.16 vs 40
	AOC4-BCW5-3144	0.0033 PG/G	J	FD>RPD	198.89 vs 40
	AOC4-BCW5-3145	0.0000092 PG/G	J	FD>RPD	198.89 vs 40
Site: AOC 6					
Method (Matrix): SW6010B (SOIL)					
Chromium	AOC6-3-14005	23 mg/Kg	J	FD>RPD	46.67 vs 20
	AOC6-3-14006	37 mg/Kg	J	FD>RPD	46.67 vs 20
Lead	AOC6-3-14005	7.2 mg/Kg	J	FD>RPD	31.58 vs 20
	AOC6-3-14006	9.9 mg/Kg	J	FD>RPD	31.58 vs 20
	AOC6-5-14011	9.5 mg/Kg	J	FD>RPD	36.02 vs 20
	AOC6-5-14012	6.6 mg/Kg	J	FD>RPD	36.02 vs 20
Manganese, add	AOC6-5-14011	280 mg/Kg	J	FD>RPD	24 vs 20
	AOC6-5-14012	220 mg/Kg	J	FD>RPD	24 vs 20
Nickel	AOC6-3-14005	9.6 mg/Kg	J	FD>RPD	30.09 vs 20
	AOC6-3-14006	13 mg/Kg	J	FD>RPD	30.09 vs 20
	AOC6-5-14011	11 mg/Kg	J	FD>RPD	25.64 vs 20
	AOC6-5-14012	8.5 mg/Kg	J	FD>RPD	25.64 vs 20
Vanadium	AOC6-3-14005	21 mg/Kg	J	FD>RPD	21.28 vs 20
	AOC6-3-14006	26 mg/Kg	J	FD>RPD	21.28 vs 20
Zinc	AOC6-1-14001	78 mg/Kg	J	FD>RPD	68.97 vs 20
	AOC6-1-14002	38 mg/Kg	J	FD>RPD	68.97 vs 20
	AOC6-3-14005	42 mg/Kg	J	FD>RPD	23.16 vs 20
	AOC6-3-14006	53 mg/Kg	J	FD>RPD	23.16 vs 20
Site: Storm Drain					
Method (Matrix): SW6010B (SOIL)					

TABLE A4

Field Duplicate Precision - Qualified Data

Analyte	Sample Identification	Result	Field Duplicate Qualifier*	Criteria	Validation Comments
Site: Storm Drain					
Method (Matrix): SW6010B (SOIL)					
Barium	SD-19-D1	150 mg/Kg	J	FD>RPD	22.22 vs 20
	SD-19-D7	120 mg/Kg	J	FD>RPD	22.22 vs 20
Chromium	SD-31-01	170 mg/Kg	J	FD>RPD	116.28 vs 20
	SD-31-02	45 mg/Kg	J	FD>RPD	116.28 vs 20
Copper	SD-19-D1	15 mg/Kg	J	FD>RPD	30.77 vs 20
	SD-19-D7	11 mg/Kg	J	FD>RPD	30.77 vs 20
	SD-31-01	20 mg/Kg	J	FD>RPD	112.09 vs 20
	SD-31-02	71 mg/Kg	J	FD>RPD	112.09 vs 20
Nickel	SD-31-01	7.9 mg/Kg	J	FD>RPD	32.8 vs 20
	SD-31-02	11 mg/Kg	J	FD>RPD	32.8 vs 20
Zinc	SD-31-01	180 mg/Kg	J	FD>RPD	32.26 vs 20
	SD-31-02	130 mg/Kg	J	FD>RPD	32.26 vs 20
Method (Matrix): SW7199 (SOIL)					
Chromium, hexavalent	SD-31-01	1.4 mg/Kg	J	FD>RPD	24 vs 20
	SD-31-02	1.1 mg/Kg	J	FD>RPD	24 vs 20
Method (Matrix): SW8082 (SOIL)					
Aroclor 1254	SD-39-OS1-1001	95 ug/Kg	J	FD>RPD	92.96 vs 50
	SD-39-OS1-1004	260 ug/Kg	J	FD>RPD	92.96 vs 50
Aroclor 1260	SD-39-OS1-1001	17 ug/Kg	UJ	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 68.7 vs 50
	SD-39-OS1-1004	72 ug/Kg	J	FD>RPD	Analyte detected in only 1/2 of duplicate pair, Difference > RL X 4: 68.7 vs 50
Site: SWMU 1					
Method (Matrix): SW6010B (SOIL)					
Barium	SWMU1-18-1104	62 mg/Kg	J	FD>RPD	41.03 vs 20
	SWMU1-18-1105	94 mg/Kg	J	FD>RPD	41.03 vs 20
	SWMU1-21-1142	330 mg/Kg	J	FD>RPD	93.33 vs 20
	SWMU1-21-1143	120 mg/Kg	J	FD>RPD	93.33 vs 20

TABLE A4

Field Duplicate Precision - Qualified Data

Analyte	Sample Identification	Result	Field Duplicate Qualifier*	Criteria	Validation Comments
Site: SWMU 1					
Method (Matrix): SW6010B (SOIL)					
Chromium	SWMU1-19-1118	24 mg/Kg	J	FD>RPD	25.45 vs 20
	SWMU1-19-1119	31 mg/Kg	J	FD>RPD	25.45 vs 20
Copper	SWMU1-18-1104	19 mg/Kg	J	FD>RPD	27.27 vs 20
	SWMU1-18-1105	25 mg/Kg	J	FD>RPD	27.27 vs 20
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	SWMU1-26-1157	450 PG/G	J	FD>RPD	90.91 vs 40
	SWMU1-26-1158	1200 PG/G	J	FD>RPD	90.91 vs 40
OCDD	SWMU1-26-1157	5100 PG/G	J	FD>RPD	44.27 vs 40
	SWMU1-26-1158	8000 PG/G	J	FD>RPD	44.27 vs 40
TEQ	SWMU1-26-1157	0.38 PG/G	J	FD>RPD	85.71 vs 40
	SWMU1-26-1158	0.95 PG/G	J	FD>RPD	85.71 vs 40

RPD = relative percent difference
mg/Kg = milligrams per kilogram
PG/G = picograms per gram
ug/Kg = micrograms per kilogram

* 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.

UJ = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL). The quantitation is an estimate.

Criteria:

Difference > RL X **=** The difference between the native result and the field duplicate result is greater than 4 times the reporting limit

FD>RPD **=** Field duplicate exceeds RPD criteria

TABLE A5

Laboratory Control Sample - Qualified Data

Analyte	Sample Identification / QAQC Type	Result	LCS Qualifier*	LCS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW7199 (SOIL)					
Hexavalent Chromium	AOC1-BCW29-267 / N	0.24 mg/Kg	UJ	%R = 84.4 LCL=85 UCL=115	LCS<LCL
	AOC1-T6D-312 / N	0.2 mg/Kg	UJ	%R = 84.4 LCL=85 UCL=115	LCS<LCL
	AOC1-T6D-313 / N	0.32 mg/Kg	J	%R = 84.4 LCL=85 UCL=115	LCS<LCL
	AOC1-T6D-314 / N	0.24 mg/Kg	J	%R = 84.4 LCL=85 UCL=115	LCS<LCL
	AOC1-T6D-315 / N	0.21 mg/Kg	UJ	%R = 84.4 LCL=85 UCL=115	LCS<LCL
	AOC1-T6D-316 / FD	0.21 mg/Kg	UJ	%R = 84.4 LCL=85 UCL=115	LCS<LCL
	AOC1-T6D-317 / N	0.21 mg/Kg	UJ	%R = 84.4 LCL=85 UCL=115	LCS<LCL
	AOC1-T6D-318 / FD	0.2 mg/Kg	UJ	%R = 84.4 LCL=85 UCL=115	LCS<LCL
	AOC1-T6D-319 / N	0.2 mg/Kg	UJ	%R = 84.4 LCL=85 UCL=115	LCS<LCL
Method (Matrix): SW8081A (SOIL)					
Toxaphene	AOC1-T2g-320 / N	55 ug/Kg	UJ		NoLCS
	AOC1-T2g-321 / N	53 ug/Kg	UJ		NoLCS
	AOC1-T2g-322 / N	53 ug/Kg	UJ		NoLCS
	AOC1-T2g-323 / N	53 ug/Kg	UJ		NoLCS
	AOC1-T2g-324 / N	53 ug/Kg	UJ		NoLCS
	AOC1-T2g-325 / FD	53 ug/Kg	UJ		NoLCS
	AOC1-T2g-326 / N	53 ug/Kg	UJ		NoLCS
	AOC1-T2g-327 / N	54 ug/Kg	UJ		NoLCS
	AOC1-T2g-328 / N	53 ug/Kg	UJ		NoLCS
	AOC1-T2h-329 / N	51 ug/Kg	UJ		NoLCS
	AOC1-T2h-330 / N	53 ug/Kg	UJ		NoLCS
	AOC1-T2h-331 / N	52 ug/Kg	UJ		NoLCS
	AOC1-T2h-332 / N	51 ug/Kg	UJ		NoLCS
	AOC1-T2h-333 / N	52 ug/Kg	UJ		NoLCS
	AOC1-T2h-334 / N	52 ug/Kg	UJ		NoLCS
	AOC1-T2h-335 / N	52 ug/Kg	UJ		NoLCS
	AOC1-T2h-336 / N	53 ug/Kg	UJ		NoLCS
	AOC1-T2i-337 / N	52 ug/Kg	UJ		NoLCS
	AOC1-T2i-338 / N	51 ug/Kg	UJ		NoLCS
	AOC1-T2i-339 / N	52 ug/Kg	UJ		NoLCS
	AOC1-T2i-340 / N	51 ug/Kg	UJ		NoLCS
	AOC1-T2i-341 / N	51 ug/Kg	UJ		NoLCS
	AOC1-T2i-342 / N	51 ug/Kg	UJ		NoLCS

TABLE A5

Laboratory Control Sample - Qualified Data

Analyte	Sample Identification / QAQC Type	Result	LCS Qualifier*	LCS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW8081A (SOIL)					
Toxaphene	AOC1-T2j-343 / N	52 ug/Kg	UJ		NoLCS
	AOC1-T2j-344 / N	52 ug/Kg	UJ		NoLCS
	AOC1-T2j-345 / FD	51 ug/Kg	UJ		NoLCS
	AOC1-T2j-346 / N	52 ug/Kg	UJ		NoLCS
	AOC1-T2j-347 / N	52 ug/Kg	UJ		NoLCS
	AOC1-T2j-348 / N	53 ug/Kg	UJ		NoLCS
	AOC1-T2j-349 / N	54 ug/Kg	UJ		NoLCS
	AOC1-T2j-350 / FD	53 ug/Kg	UJ		NoLCS
Method (Matrix): SW8270C (SOIL)					
Hexachlorocyclopentadiene, add	AOC1-8-381 / N	700 ug/Kg	UJ	%R = 53.1 LCL=57 UCL=108	LCS<LCL
Method (Matrix): SW8270SIM (SOIL)					
Naphthalene	TCS-4-01 / N	5 ug/Kg	UJ	%R = 28 LCL=29 UCL=106	LCS<LCL
	TCS-4-02 / N	5.1 ug/Kg	UJ	%R = 28 LCL=29 UCL=106	LCS<LCL
Site: AOC 13					
Method (Matrix): SW8260B (SOIL)					
Acetone	AOC13-30-17057 / N	64 ug/Kg	UJ	RPD = 38.3 Limit =30	LCSRPD
	AOC13-31-17060 / N	59 ug/Kg	UJ	RPD = 38.3 Limit =30	LCSRPD
Site: AOC 20					
Method (Matrix): SW8260B (SOIL)					
Isopropylbenzene	AOC20-09-OS1-1001 / N	6.7 ug/Kg	UJ	%R = 75.8 LCL=77 UCL=129	LCS<LCL
	AOC20-09-OS1-1002 / N	7.5 ug/Kg	UJ	%R = 75.8 LCL=77 UCL=129	LCS<LCL
	AOC20-09-OS1-1003 / F	6.6 ug/Kg	UJ	%R = 75.8 LCL=77 UCL=129	LCS<LCL
Site: Perimeter Area					
Method (Matrix): SW8270C (SOIL)					
Benzoic acid	PA-07-1 / N	1700 ug/Kg	UJ	%R = 24.4 LCL=25 UCL=125	LCS<LCL

TABLE A5

Laboratory Control Sample - Qualified Data

%R = percent recovery

mg/Kg = milligrams per kilogram

ug/Kg = micrograms per kilogram

QAQC Type

N = Normal Environmental Sample
FD = Field Duplicate

* 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.

UJ = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL). The quantitation is an estimate.

Criteria:

LCS<LCL	=	LCS recovery less than lower control limit
LCSRPD	=	LCSD RPD criteria exceeded
NoLCS	=	No LCS in the analytical batch

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW6010B (SOIL)					
Antimony	AOC1-2-159	2 mg/Kg	UJ	%R = 69.9 LCL=75 UCL=125	MS<LCL
	AOC1-2-159	2 mg/Kg	UJ	%R = 71.1 LCL=75 UCL=125	SD<LCL
	AOC1-4-185	2 mg/Kg	UJ	%R = 73.7 LCL=75 UCL=125	MS<LCL
	AOC1-4-185	2 mg/Kg	UJ	%R = 72.4 LCL=75 UCL=125	SD<LCL
	AOC1-BCW14-206	2.1 mg/Kg	UJ	%R = 67.7 LCL=75 UCL=125	MS<LCL
	AOC1-BCW14-206	2.1 mg/Kg	UJ	%R = 67.6 LCL=75 UCL=125	SD<LCL
	AOC1-BCW19-224	2.3 mg/Kg	UJ	%R = 68.8 LCL=75 UCL=125	MS<LCL
	AOC1-BCW19-224	2.3 mg/Kg	UJ	%R = 67.4 LCL=75 UCL=125	SD<LCL
	AOC1-BCW24-244	2.4 mg/Kg	UJ	%R = 58.6 LCL=75 UCL=125	MS<LCL
	AOC1-BCW24-244	2.4 mg/Kg	UJ	%R = 62 LCL=75 UCL=125	SD<LCL
	AOC1-BCW30-268	2.4 mg/Kg	UJ	%R = 45.6 LCL=75 UCL=125	MS<LCL
	AOC1-BCW30-268	2.4 mg/Kg	UJ	%R = 41.9 LCL=75 UCL=125	SD<LCL
	AOC1-T2h-329	2.1 mg/Kg	UJ	%R = 71.4 LCL=75 UCL=125	MS<LCL
	AOC1-T2h-329	2.1 mg/Kg	UJ	%R 72.1 < 80-120%	PDS<LCL
	AOC1-T2h-329	2.1 mg/Kg	UJ	%R = 71.6 LCL=75 UCL=125	SD<LCL
	Old Well-BCW-1	2.2 mg/Kg	UJ	%R = 30.8 LCL=75 UCL=125	MS<LCL
	Old Well-BCW-1	2.2 mg/Kg	UJ	%R = 27.5 LCL=75 UCL=125	SD<LCL
	TCS-4-01	2 mg/Kg	UJ	%R = 27.8 LCL=75 UCL=125	MS<LCL
	TCS-4-01	2 mg/Kg	UJ	%R = 24.4 LCL=75 UCL=125	SD<LCL
	TCS4-E-05	8.3 mg/Kg	J	%R = 56.3 LCL=75 UCL=125	MS<LCL
	TCS4-E-05	8.3 mg/Kg	J	%R = 66.2 LCL=75 UCL=125	SD<LCL
	TCS4-E-05D	16 mg/Kg	J	%R = 56.3 LCL=75 UCL=125	MS<LCL
	TCS4-E-05D	16 mg/Kg	J	%R = 66.2 LCL=75 UCL=125	SD<LCL
Arsenic	AOC1-7-375	1.6 mg/Kg	J	MSRPD = 24.56 Limit =20	MSRPD
	TCS4-E-05	19 mg/Kg	J	%R = 67.5 LCL=75 UCL=125	MS<LCL
	TCS4-E-05D	18 mg/Kg	J	%R = 67.5 LCL=75 UCL=125	MS<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW6010B (SOIL)					
Barium	AOC1-4-185	110 mg/Kg	J	%R = 70.3 LCL=75 UCL=125	MS<LCL
	AOC1-4-185	110 mg/Kg	J	%R = 56.4 LCL=75 UCL=125	SD<LCL
	AOC1-BCW14-206	88 mg/Kg	J	parent sample >25xRL	PDS>UCL
	AOC1-BCW14-206	88 mg/Kg	J	%R = 67 LCL=75 UCL=125	SD<LCL
	AOC1-T6D-312	110 mg/Kg	J	%R = 145 LCL=75 UCL=125	MS>UCL
Beryllium	Old Well-BCW-1	1.1 mg/Kg	UJ	%R = 72.5 LCL=75 UCL=125	MS<LCL
	Old Well-BCW-1	1.1 mg/Kg	UJ	%R = 70.6 LCL=75 UCL=125	SD<LCL
	TCS4-E-05	1 mg/Kg	UJ	%R = 71.8 LCL=75 UCL=125	MS<LCL
	TCS4-E-05	1 mg/Kg	UJ	%R = 73 LCL=75 UCL=125	SD<LCL
	TCS4-E-05D	1.1 mg/Kg	UJ	%R = 71.8 LCL=75 UCL=125	MS<LCL
	TCS4-E-05D	1.1 mg/Kg	UJ	%R = 73 LCL=75 UCL=125	SD<LCL
Cadmium	Old Well-BCW-1	1.1 mg/Kg	UJ	%R = 73.9 LCL=75 UCL=125	MS<LCL
	Old Well-BCW-1	1.1 mg/Kg	UJ	%R = 72.5 LCL=75 UCL=125	SD<LCL
	TCS-4-01	1 mg/Kg	UJ	%R = 74.7 LCL=75 UCL=125	MS<LCL
Chromium	AOC1-2-159	18 mg/Kg	J	%R = 70.1 LCL=75 UCL=125	SD<LCL
	AOC1-T2h-329	100 mg/Kg	J	%R = 14.9 LCL=75 UCL=125	MS<LCL
	AOC1-T2h-329	100 mg/Kg	J	%R = 18.7 LCL=75 UCL=125	SD<LCL
	TCS-4-01	61 mg/Kg	J	%R = 44.2 LCL=75 UCL=125	MS<LCL
	TCS-4-01	61 mg/Kg	J	%R = 40.2 LCL=75 UCL=125	SD<LCL
Copper	AOC1-T2h-329	9.2 mg/Kg	J	%R = 127 LCL=75 UCL=125	MS>UCL
	AOC1-T2h-329	9.2 mg/Kg	J	%R = 130 LCL=75 UCL=125	SD>UCL
	TCS-4-01	18 mg/Kg	J	%R = 71.2 LCL=75 UCL=125	SD<LCL
Lead	AOC1-BCW30-268	17 mg/Kg	J	%R = 73.5 LCL=75 UCL=125	SD<LCL
	Old Well-BCW-1	12 mg/Kg	J	MSRPD = 66.67 Limit =20	MSRPD
	Old Well-BCW-1	12 mg/Kg	J	%R = 203 LCL=75 UCL=125	SD>UCL
	TCS-4-01	32 mg/Kg	J	%R = 10.4 LCL=75 UCL=125	MS<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW6010B (SOIL)					
Lead	TCS-4-01	32 mg/Kg	J	%R = -9.21 LCL=75 UCL=125	SD<LCL
Manganese, add	AOC1-7-375	180 mg/Kg	J	%R = 140 LCL=75 UCL=125	SD>UCL
Molybdenum	AOC1-BCW30-268	1.2 mg/Kg	UJ	%R = 74.5 LCL=75 UCL=125	MS<LCL
	TCS4-E-05	9.6 mg/Kg	J	%R = 71.6 LCL=75 UCL=125	MS<LCL
	TCS4-E-05D	9.1 mg/Kg	J	%R = 71.6 LCL=75 UCL=125	MS<LCL
Nickel	AOC1-7-375	9.3 mg/Kg	J	MSRPD = 22.86 Limit =20	MSRPD
	TCS-4-01	16 mg/Kg	J	%R = 72.4 LCL=75 UCL=125	SD<LCL
Selenium	AOC1-2-159	1 mg/Kg	UJ	%R = 65.4 LCL=75 UCL=125	MS<LCL
	AOC1-2-159	1 mg/Kg	UJ	%R = 66.6 LCL=75 UCL=125	SD<LCL
	AOC1-4-185	1 mg/Kg	UJ	%R = 70.2 LCL=75 UCL=125	MS<LCL
	AOC1-4-185	1 mg/Kg	UJ	%R = 69.7 LCL=75 UCL=125	SD<LCL
	AOC1-5-365	1 mg/Kg	UJ	67.9% vs 75-125%	PDS<LCL
	AOC1-5-366	1 mg/Kg	UJ	67.9% vs 75-125%	PDS<LCL
	AOC1-5-367	1 mg/Kg	UJ	67.9% vs 75-125%	PDS<LCL
	AOC1-5-368	1 mg/Kg	UJ	67.9% vs 75-125%	PDS<LCL
	AOC1-5-369	1.1 mg/Kg	UJ	67.9% vs 75-125%	PDS<LCL
	AOC1-6-370	1 mg/Kg	UJ	67.9% vs 75-125%	PDS<LCL
	AOC1-6-371	1 mg/Kg	UJ	67.9% vs 75-125%	PDS<LCL
	AOC1-6-372	1 mg/Kg	UJ	67.9% vs 75-125%	PDS<LCL
	AOC1-6-373	1 mg/Kg	UJ	67.9% vs 75-125%	PDS<LCL
	AOC1-6-374	1 mg/Kg	UJ	67.9% vs 75-125%	PDS<LCL
	AOC1-7-375	1 mg/Kg	UJ	%R = 68.4 LCL=75 UCL=125	MS<LCL
	AOC1-7-375	1 mg/Kg	UJ	67.9% vs 75-125%	PDS<LCL
	AOC1-8-381	1.1 mg/Kg	UJ	63.1% vs 75-125%	PDS<LCL
	AOC1-8-382	1.2 mg/Kg	UJ	63.1% vs 75-125%	PDS<LCL
	AOC1-BCW14-206	1 mg/Kg	UJ	%R = 59.7 LCL=75 UCL=125	MS<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW6010B (SOIL)					
Selenium	AOC1-BCW14-206	1 mg/Kg	UJ	%R = 58.9 LCL=75 UCL=125	SD<LCL
	AOC1-BCW19-224	1.2 mg/Kg	UJ	%R = 64 LCL=75 UCL=125	MS<LCL
	AOC1-BCW19-224	1.2 mg/Kg	UJ	%R = 61.1 LCL=75 UCL=125	SD<LCL
	AOC1-BCW24-244	1.2 mg/Kg	UJ	%R = 67.8 LCL=75 UCL=125	MS<LCL
	AOC1-BCW24-244	1.2 mg/Kg	UJ	%R = 71.4 LCL=75 UCL=125	SD<LCL
	AOC1-BCW30-268	1.2 mg/Kg	UJ	%R = 56.1 LCL=75 UCL=125	MS<LCL
	AOC1-BCW30-268	1.2 mg/Kg	UJ	%R = 53.9 LCL=75 UCL=125	SD<LCL
	AOC1-BCW8-283	1.1 mg/Kg	UJ	%R = 64.8 LCL=75 UCL=125	MS<LCL
	AOC1-BCW8-283	1.1 mg/Kg	UJ	%R = 65.2 LCL=75 UCL=125	SD<LCL
	AOC1-T1g-351	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	AOC1-T1g-352	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	AOC1-T1g-353	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	AOC1-T1g-354	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	AOC1-T1g-355	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	AOC1-T2h-329	1 mg/Kg	UJ	%R = 74.1 LCL=75 UCL=125	MS<LCL
	AOC1-T2h-329	1 mg/Kg	UJ	%R 75.5 < 80-120%	PDS<LCL
	AOC1-T7-356	1.1 mg/Kg	UJ	%R = 35.4 LCL=75 UCL=125	MS<LCL
	AOC1-T7-356	1.1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
	AOC1-T7-356	1.1 mg/Kg	UJ	%R = 35 LCL=75 UCL=125	SD<LCL
	AOC1-T7-357	1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
	AOC1-T7-358	1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
	AOC1-T7-359	1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
	AOC1-T8-360	1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
	AOC1-T8-361	1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
	AOC1-T8-362	1.1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
	AOC1-T8-363	1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
	AOC1-T8-364	1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW6010B (SOIL)					
Selenium	TCS4-E-05	1 mg/Kg	UJ	%R = 66 LCL=75 UCL=125	MS<LCL
	TCS4-E-05	1 mg/Kg	UJ	%R = 66.3 LCL=75 UCL=125	SD<LCL
	TCS4-E-05D	1.1 mg/Kg	UJ	%R = 66 LCL=75 UCL=125	MS<LCL
	TCS4-E-05D	1.1 mg/Kg	UJ	%R = 66.3 LCL=75 UCL=125	SD<LCL
Silver	AOC1-T1g-351	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	AOC1-T1g-352	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	AOC1-T1g-353	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	AOC1-T1g-354	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	AOC1-T1g-355	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	Old Well-BCW-1	1.1 mg/Kg	UJ	%R = 71 LCL=75 UCL=125	MS<LCL
	Old Well-BCW-1	1.1 mg/Kg	UJ	%R = 71.1 LCL=75 UCL=125	SD<LCL
	TCS-4-01	1 mg/Kg	UJ	%R = 72.9 LCL=75 UCL=125	MS<LCL
	TCS-4-01	1 mg/Kg	UJ	%R = 73.7 LCL=75 UCL=125	SD<LCL
Thallium	AOC1-8-381	2.1 mg/Kg	UJ	74.3% vs 75-125%	PDS<LCL
	AOC1-8-382	2.4 mg/Kg	UJ	74.3% vs 75-125%	PDS<LCL
	AOC1-BCW30-268	2.4 mg/Kg	UJ	%R = 66.1 LCL=75 UCL=125	MS<LCL
	AOC1-BCW30-268	2.4 mg/Kg	UJ	%R = 66.7 LCL=75 UCL=125	SD<LCL
	AOC1-T1g-351	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T1g-352	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T1g-353	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T1g-354	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T1g-355	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T7-356	2.1 mg/Kg	UJ	%R = 62.2 LCL=75 UCL=125	MS<LCL
	AOC1-T7-356	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T7-356	2.1 mg/Kg	UJ	%R = 61.1 LCL=75 UCL=125	SD<LCL
	AOC1-T7-357	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW6010B (SOIL)					
Thallium	AOC1-T7-358	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T7-359	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T8-360	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T8-361	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T8-362	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T8-363	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC1-T8-364	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	TCS-4-01	2 mg/Kg	UJ	%R = 74 LCL=75 UCL=125	MS<LCL
	TCS-4-01	2 mg/Kg	UJ	%R = 74.7 LCL=75 UCL=125	SD<LCL
	TCS4-E-05	2.1 mg/Kg	UJ	%R = 73.7 LCL=75 UCL=125	MS<LCL
	TCS4-E-05D	2.1 mg/Kg	UJ	%R = 73.7 LCL=75 UCL=125	MS<LCL
Vanadium	Old Well-BCW-1	37 mg/Kg	J	%R = 74.9 LCL=75 UCL=125	MS<LCL
	Old Well-BCW-1	37 mg/Kg	J	%R = 70.1 LCL=75 UCL=125	SD<LCL
	TCS4-E-05	67 mg/Kg	J	%R = 74.2 LCL=75 UCL=125	MS<LCL
	TCS4-E-05D	60 mg/Kg	J	%R = 74.2 LCL=75 UCL=125	MS<LCL
Zinc	AOC1-4-185	43 mg/Kg	J	%R = 65.8 LCL=75 UCL=125	MS<LCL
	AOC1-4-185	43 mg/Kg	J	sample >25xRL	PDS<LCL
	AOC1-7-375	28 mg/Kg	J	%R = 74.7 LCL=75 UCL=125	MS<LCL
	AOC1-7-375	28 mg/Kg	J	MSRPD = 32.14 Limit =20	MSRPD
	AOC1-7-375	28 mg/Kg	J	%R = 146 LCL=75 UCL=125	SD>UCL
	AOC1-7-375	28 mg/Kg	J	Serial dilution > 10% D	SerDil
Method (Matrix): SW7199 (SOIL)					
Chromium, hexavalent	AOC1-BCW11-192	0.21 mg/Kg	UJ	%R = 18.6 LCL=75 UCL=125	SD<LCL
Method (Matrix): SW7471A (SOIL)					
Mercury	AOC1-4-184	0.1 mg/Kg	UJ	MS/MSD not spiked, no recovery.	LabA&P
	AOC1-4-184	0.1 mg/Kg	UJ	%R = 0 LCL=75 UCL=125	MS<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW7471A (SOIL)					
Mercury	AOC1-4-184	0.1 mg/Kg	UJ	%R = 0 LCL=75 UCL=125	SD<LCL
Method (Matrix): SW8081A (SOIL)					
Heptachlor epoxide	AOC1-BCW11-192	1.1 ug/Kg	UJ	%R = 46.5 LCL=66 UCL=130	MS<LCL
	AOC1-BCW11-192	1.1 ug/Kg	UJ	%R = 54.1 LCL=66 UCL=130	SD<LCL
Method (Matrix): SW8082 (SOIL)					
Aroclor 1016	AOC1-T5D-304	17 ug/Kg	UJ	MSRPD = 21.2 Limit = 20	MSRPD
Method (Matrix): SW8260B (SOIL)					
Acrolein	AOC1-8-381	130 ug/Kg	UJ	%R = 38.4 LCL=65 UCL=135	MS<LCL
	AOC1-8-381	130 ug/Kg	UJ	%R = 23.8 LCL=65 UCL=135	SD<LCL
Method (Matrix): SW8270C (SOIL)					
1,2,4-Trichlorobenzene	TCS-4-02	330 ug/Kg	UJ	%R = 41.5 LCL=44 UCL=125	SD<LCL
1,2-Dichlorobenzene	TCS-4-02	330 ug/Kg	UJ	%R = 34.7 LCL=45 UCL=125	SD<LCL
1,3-Dichlorobenzene	TCS-4-02	330 ug/Kg	UJ	%R = 32 LCL=39 UCL=125	SD<LCL
1,4-Dichlorobenzene	TCS-4-02	330 ug/Kg	UJ	%R = 33.3 LCL=35 UCL=125	SD<LCL
2,4,5-Trichlorophenol	TCS-4-02	330 ug/Kg	UJ	%R = 15.9 LCL=49 UCL=125	MS<LCL
	TCS-4-02	330 ug/Kg	UJ	%R = 9.06 LCL=49 UCL=125	SD<LCL
2,4,6-Trichlorophenol	TCS-4-02	330 ug/Kg	UJ	%R = 18.9 LCL=43 UCL=125	MS<LCL
	TCS-4-02	330 ug/Kg	UJ	%R = 11.9 LCL=43 UCL=125	SD<LCL
2,4-Dichlorophenol	TCS-4-02	1700 ug/Kg	UJ	%R = 28.7 LCL=45 UCL=125	MS<LCL
	TCS-4-02	1700 ug/Kg	UJ	%R = 18.1 LCL=45 UCL=125	SD<LCL
2,4-Dinitrophenol	TCS-4-02	1700 ug/Kg	R	%R = 0 LCL=25 UCL=132	MS<LCL
	TCS-4-02	1700 ug/Kg	R	%R = 0 LCL=25 UCL=132	SD<LCL
2-Chlorophenol	TCS-4-02	330 ug/Kg	UJ	%R = 40.9 LCL=44 UCL=125	MS<LCL
	TCS-4-02	330 ug/Kg	UJ	%R = 25.2 LCL=44 UCL=125	SD<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW8270C (SOIL)					
2-Methylnaphthalene	TCS-4-02	330 ug/Kg	UJ	%R = 42.2 LCL=47 UCL=125	SD<LCL
2-Methylphenol	TCS-4-02	330 ug/Kg	UJ	%R = 38 LCL=40 UCL=125	SD<LCL
2-Nitrophenol	TCS-4-02	330 ug/Kg	UJ	%R = 33.4 LCL=42 UCL=125	MS<LCL
	TCS-4-02	330 ug/Kg	UJ	%R = 20.4 LCL=42 UCL=125	SD<LCL
4,6-Dinitro-2-methylphenol	TCS-4-02	1700 ug/Kg	R	%R = 2.6 LCL=29 UCL=137	MS<LCL
	TCS-4-02	1700 ug/Kg	R	%R = 0 LCL=29 UCL=137	SD<LCL
4-Chloro-3-methylphenol	TCS-4-02	670 ug/Kg	UJ	%R = 33.5 LCL=46 UCL=125	SD<LCL
4-Methylphenol	TCS-4-02	330 ug/Kg	UJ	%R = 34.3 LCL=41 UCL=125	SD<LCL
4-Nitrophenol	TCS-4-02	1700 ug/Kg	UJ	%R = 12.4 LCL=25 UCL=138	MS<LCL
	TCS-4-02	1700 ug/Kg	R	%R = 4.02 LCL=25 UCL=138	SD<LCL
Acenaphthene	TCS-4-02	330 ug/Kg	UJ	%R = 45.6 LCL=46 UCL=125	SD<LCL
Anthracene	TCS-4-02	330 ug/Kg	UJ	%R = 49.6 LCL=53 UCL=125	SD<LCL
Benzo (a) anthracene	TCS-4-02	330 ug/Kg	UJ	%R = 51.3 LCL=52 UCL=125	SD<LCL
Benzo (a) pyrene	TCS-4-02	330 ug/Kg	UJ	%R = 49.4 LCL=50 UCL=125	SD<LCL
Benzo (g,h,i) perylene	AOC1-7-375	340 ug/Kg	UJ	%R = 26.9 LCL=38 UCL=126	MS<LCL
	AOC1-7-375	340 ug/Kg	UJ	%R = 22.9 LCL=38 UCL=126	SD<LCL
Benzoic acid	TCS-4-02	1700 ug/Kg	R	%R = 0 LCL=25 UCL=125	MS<LCL
	TCS-4-02	1700 ug/Kg	R	%R = 0 LCL=25 UCL=125	SD<LCL
bis (2-chloroethoxy) methane	TCS-4-02	330 ug/Kg	UJ	%R = 42.9 LCL=43 UCL=125	SD<LCL
Chrysene	TCS-4-02	330 ug/Kg	UJ	%R = 51.3 LCL=53 UCL=125	SD<LCL
Dibenzo (a,h) anthracene	AOC1-7-375	340 ug/Kg	UJ	%R = 39.4 LCL=41 UCL=125	MS<LCL
	AOC1-7-375	340 ug/Kg	UJ	%R = 34.5 LCL=41 UCL=125	SD<LCL
Dibenzofuran	TCS-4-02	330 ug/Kg	UJ	%R = 48.6 LCL=51 UCL=125	SD<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW8270C (SOIL)					
Di-n-butylphthalate	TCS-4-02	330 ug/Kg	UJ	%R = 51.3 LCL=56 UCL=125	SD<LCL
Fluoranthene	TCS-4-02	330 ug/Kg	UJ	%R = 43.9 LCL=54 UCL=125	SD<LCL
Fluorene	TCS-4-02	330 ug/Kg	UJ	%R = 48.5 LCL=49 UCL=125	SD<LCL
Hexachlorocyclopentadiene, add	AOC1-7-375	680 ug/Kg	UJ	%R = 27.8 LCL=57 UCL=108	MS<LCL
	AOC1-7-375	680 ug/Kg	UJ	%R = 26.4 LCL=57 UCL=108	SD<LCL
Hexachloroethane	TCS-4-02	330 ug/Kg	UJ	%R = 33.2 LCL=34 UCL=125	SD<LCL
Indeno (1,2,3-c,d) pyrene	AOC1-7-375	340 ug/Kg	UJ	%R = 36.1 LCL=38 UCL=125	MS<LCL
	AOC1-7-375	340 ug/Kg	UJ	%R = 31.1 LCL=38 UCL=125	SD<LCL
Pentachlorophenol	TCS-4-02	1700 ug/Kg	R	%R = 1.66 LCL=25 UCL=125	MS<LCL
	TCS-4-02	1700 ug/Kg	R	%R = 0 LCL=25 UCL=125	SD<LCL
Phenanthrene	TCS-4-02	330 ug/Kg	UJ	%R = 49.4 LCL=50 UCL=125	SD<LCL
Phenol	TCS-4-02	330 ug/Kg	UJ	%R = 31.3 LCL=39 UCL=125	SD<LCL
Pyrene	TCS-4-02	330 ug/Kg	UJ	%R = 41.9 LCL=46 UCL=125	SD<LCL
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,6,7,8-Heptachlorodibenzofuran	AOC1-7-375	38 PG/G	J	%R = 67.7 LCL=70 UCL=130	SD<LCL
	AOC1-BCW16-212	53 PG/G	J	%R = 231 LCL=70 UCL=130	SD>UCL
	AOC1-BCW18-220	57 PG/G	J	MSRPD = 46.23 Limit =20	MSRPD
	AOC1-BCW18-220	57 PG/G	J	%R = 150 LCL=70 UCL=130	SD>UCL
	AOC1-BCW25-248	110 PG/G	J	%R = 295 LCL=70 UCL=130	MS>UCL
	AOC1-BCW25-248	110 PG/G	J	MSRPD = 44.08 Limit =20	MSRPD
	AOC1-BCW25-248	110 PG/G	J	%R = 157 LCL=70 UCL=130	SD>UCL
	AOC1-T2g-320	820 PG/G	J	%R = 264 LCL=70 UCL=130	MS>UCL
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	AOC1-T2g-320	3100 PG/G	J	%R = 776 LCL=70 UCL=130	MS>UCL
	AOC1-T2g-320	3100 PG/G	J	%R = 752 LCL=70 UCL=130	SD>UCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	AOC1-T7-356	210 PG/G	J	%R = 0.9 LCL=70 UCL=130	MS<LCL
	AOC1-T7-356	210 PG/G	J	%R = 34.5 LCL=70 UCL=130	SD<LCL
1,2,3,4,7,8,9-Heptachlorodibenzofuran	AOC1-BCW16-212	4.8 PG/G	J	MSRPD = 24.96 Limit =20	MSRPD
1,2,3,6,7,8-Hexachlorodibenzofuran	AOC1-T2g-320	89 PG/G	UJ	%R = 68.2 LCL=70 UCL=130	SD<LCL
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	AOC1-BCW16-212	24 PG/G	J	MSRPD = 32.08 Limit =20	MSRPD
	AOC1-BCW25-248	50 PG/G	J	%R = 158 LCL=70 UCL=130	MS>UCL
	AOC1-BCW25-248	50 PG/G	J	%R = 153 LCL=70 UCL=130	SD>UCL
2,3,4,6,7,8-Hexachlorodibenzofuran	AOC1-T2h-329	290 PG/G	UJ	%R = 67 LCL=70 UCL=130	MS<LCL
	AOC1-T2h-329	290 PG/G	UJ	%R = 58.9 LCL=70 UCL=130	SD<LCL
OCDD	AOC1-T7-356	2100 PG/G	J	%R = -191 LCL=70 UCL=130	SD<LCL
OCDF	AOC1-7-375	130 PG/G	J	%R = 48 LCL=70 UCL=130	MS<LCL
	AOC1-7-375	130 PG/G	J	%R = 48.4 LCL=70 UCL=130	SD<LCL
	AOC1-BCW11-193	320 PG/G	J	%R = 182 LCL=70 UCL=130	MS>UCL
	AOC1-BCW11-193	320 PG/G	J	MSRPD = 23.15 Limit =20	MSRPD
	AOC1-BCW16-212	190 PG/G	J	%R = 49.6 LCL=70 UCL=130	MS<LCL
	AOC1-BCW16-212	190 PG/G	J	MSRPD = 134.38 Limit =20	MSRPD
	AOC1-BCW16-212	190 PG/G	J	%R = 564 LCL=70 UCL=130	SD>UCL
	AOC1-BCW18-220	230 PG/G	J	%R = 67.2 LCL=70 UCL=130	MS<LCL
	AOC1-BCW18-220	230 PG/G	J	%R = 53.2 LCL=70 UCL=130	SD<LCL
	AOC1-BCW25-248	620 PG/G	J	%R = 256 LCL=70 UCL=130	MS>UCL
	AOC1-BCW25-248	620 PG/G	J	%R = 228 LCL=70 UCL=130	SD>UCL
	AOC1-T2h-329	720 PG/G	J	MSRPD = 23.19 Limit =20	MSRPD
	AOC1-T2h-329	720 PG/G	J	%R = 38.4 LCL=70 UCL=130	SD<LCL
	AOC1-T7-356	68 PG/G	J	%R = 67.3 LCL=70 UCL=130	MS<LCL
	AOC1-T7-356	68 PG/G	J	%R = 69.1 LCL=70 UCL=130	SD<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 13					
Method (Matrix): SW6010B (SOIL)					
Cadmium	AOC13-33-17079	1 mg/Kg	UJ	%R = 74.4 LCL=75 UCL=125	MS<LCL
	AOC13-33-17079	1 mg/Kg	UJ	%R = 74.5 LCL=75 UCL=125	SD<LCL
Cobalt	AOC13-33-17079	4.4 mg/Kg	J	%R = 72.3 LCL=75 UCL=125	MS<LCL
	AOC13-33-17079	4.4 mg/Kg	J	%R = 72.3 LCL=75 UCL=125	SD<LCL
Lead	AOC13-33-17079	22 mg/Kg	J	%R = 72.4 LCL=75 UCL=125	MS<LCL
	AOC13-33-17079	22 mg/Kg	J	%R = 70.9 LCL=75 UCL=125	SD<LCL
Selenium	AOC13-33-17077	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	AOC13-33-17078	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	AOC13-33-17079	1 mg/Kg	UJ	%R = 36.6 LCL=75 UCL=125	MS<LCL
	AOC13-33-17079	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	AOC13-33-17079	1 mg/Kg	UJ	%R = 35.6 LCL=75 UCL=125	SD<LCL
	AOC13-33-DEBRIS	1.1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
	AOC13-33-SCALE	1.1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
Silver	AOC13-33-17077	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	AOC13-33-17078	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	AOC13-33-17079	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
Thallium	AOC13-33-17077	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC13-33-17078	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC13-33-17079	2.1 mg/Kg	UJ	%R = 60.8 LCL=75 UCL=125	MS<LCL
	AOC13-33-17079	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC13-33-17079	2.1 mg/Kg	UJ	%R = 59.7 LCL=75 UCL=125	SD<LCL
	AOC13-33-DEBRIS	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC13-33-SCALE	2.2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
Zinc	AOC13-33-17079	55 mg/Kg	J	%R = 73.5 LCL=75 UCL=125	MS<LCL
	AOC13-33-17079	55 mg/Kg	J	%R = 72.2 LCL=75 UCL=125	SD<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 13					
Method (Matrix): SW8270SIM (SOIL)					
Benzo (g,h,i) perylene	AOC13-33-17079	5.9 ug/Kg	J	%R = 20.8 LCL=21 UCL=149	MS<LCL
Dibenzo (a,h) anthracene	AOC13-33-17079	5.2 ug/Kg	UJ	%R = 29.5 LCL=30 UCL=138	MS<LCL
Fluoranthene	AOC13-33-17079	120 ug/Kg	J	%R = 28.5 LCL=30 UCL=142	SD<LCL
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,7,8,9-Heptachlorodibenzofuran	AOC13-33-17079	150 PG/G	J	%R = 62.9 LCL=70 UCL=130	MS<LCL
	AOC13-33-17079	150 PG/G	J	%R = 58.1 LCL=70 UCL=130	SD<LCL
1,2,3,4,7,8-Hexachlorodibenzofuran	AOC13-33-17079	110 PG/G	J	%R = 66.7 LCL=70 UCL=130	SD<LCL
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	AOC13-33-17079	160 PG/G	J	%R = 69.5 LCL=70 UCL=130	SD<LCL
Site: AOC 20					
Method (Matrix): SW6010B (SOIL)					
Antimony	AOC20-09-OS1-1001	2.1 mg/Kg	UJ	50.6% vs 75-125%	PDS<LCL
	AOC20-09-OS1-1002	2.1 mg/Kg	UJ	50.6% vs 75-125%	PDS<LCL
	AOC20-09-OS1-1003	2.1 mg/Kg	UJ	50.6% vs 75-125%	PDS<LCL
Selenium	AOC20-09-OS1-1001	1 mg/Kg	UJ	59.4% vs 75-125%	PDS<LCL
	AOC20-09-OS1-1002	1 mg/Kg	UJ	59.4% vs 75-125%	PDS<LCL
	AOC20-09-OS1-1003	1 mg/Kg	UJ	59.4% vs 75-125%	PDS<LCL
Site: AOC 27					
Method (Matrix): SW6010B (SOIL)					
Selenium	AOC27-51-28557	1 mg/Kg	UJ	%R = 35.1 LCL=75 UCL=125	MS<LCL
	AOC27-51-28557	1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
	AOC27-51-28557	1 mg/Kg	UJ	%R = 35.9 LCL=75 UCL=125	SD<LCL
	AOC27-51-28558	1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
	AOC27-51-28559	1 mg/Kg	UJ	6.76% vs 75-125%	PDS<LCL
Thallium	AOC27-51-28557	2.1 mg/Kg	UJ	%R = 55.6 LCL=75 UCL=125	MS<LCL
	AOC27-51-28557	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 27					
Method (Matrix): SW6010B (SOIL)					
Thallium	AOC27-51-28557	2.1 mg/Kg	UJ	%R = 57.8 LCL=75 UCL=125	SD<LCL
	AOC27-51-28558	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	AOC27-51-28559	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
Method (Matrix): SW8270SIM (SOIL)					
Benzo (a) anthracene	AOC27-51-28557	490 ug/Kg	J	%R = -166 LCL=31 UCL=146	MS<LCL
	AOC27-51-28557	490 ug/Kg	J	%R = -162 LCL=31 UCL=146	SD<LCL
Benzo (a) pyrene	AOC27-51-28557	250 ug/Kg	J	%R = -78.7 LCL=28 UCL=128	MS<LCL
	AOC27-51-28557	250 ug/Kg	J	%R = -73.1 LCL=28 UCL=128	SD<LCL
Benzo (g,h,i) perylene	AOC27-51-28557	140 ug/Kg	J	%R = -25.5 LCL=21 UCL=149	MS<LCL
	AOC27-51-28557	140 ug/Kg	J	%R = -29.7 LCL=21 UCL=149	SD<LCL
Benzo (k) fluoranthene	AOC27-51-28557	130 ug/Kg	J	%R = -11.7 LCL=42 UCL=129	MS<LCL
	AOC27-51-28557	130 ug/Kg	J	%R = -4.19 LCL=42 UCL=129	SD<LCL
Chrysene	AOC27-51-28557	410 ug/Kg	J	%R = -149 LCL=39 UCL=134	MS<LCL
	AOC27-51-28557	410 ug/Kg	J	%R = -145 LCL=39 UCL=134	SD<LCL
Indeno (1,2,3-c,d) pyrene	AOC27-51-28557	140 ug/Kg	J	%R = -19.2 LCL=17 UCL=164	MS<LCL
	AOC27-51-28557	140 ug/Kg	J	%R = -21.2 LCL=17 UCL=164	SD<LCL
Phenanthrene	AOC27-51-28557	480 ug/Kg	J	%R = -208 LCL=32 UCL=127	MS<LCL
	AOC27-51-28557	480 ug/Kg	J	%R = -206 LCL=32 UCL=127	SD<LCL
Site: AOC 4					
Method (Matrix): SW6010B (SOIL)					
Antimony	AOC4-BCW2-3132	2 mg/Kg	UJ	%R = 46.8 LCL=75 UCL=125	MS<LCL
	AOC4-BCW2-3132	2 mg/Kg	UJ	%R = 47.4 LCL=75 UCL=125	SD<LCL
	AOC4-BCW4-3140	2.1 mg/Kg	UJ	%R = 68.3 LCL=75 UCL=125	MS<LCL
	AOC4-BCW4-3140	2.1 mg/Kg	UJ	%R = 63.3 LCL=75 UCL=125	SD<LCL
Barium	AOC4-BCW2-3132	95 mg/Kg	J	PS%R<80, sample >25xRL	PDS<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 4					
Method (Matrix): SW6010B (SOIL)					
Barium	AOC4-BCW2-3132	95 mg/Kg	J	%R = 57.7 LCL=75 UCL=125	SD<LCL
	AOC4-BCW4-3140	100 mg/Kg	J	%R = 161 LCL=75 UCL=125	MS>UCL
Cadmium	AOC4-BCW2-3132	1 mg/Kg	UJ	%R = 71.9 LCL=75 UCL=125	SD<LCL
Selenium	AOC4-BCW4-3140	1 mg/Kg	UJ	%R = 71.2 LCL=75 UCL=125	MS<LCL
	AOC4-BCW4-3140	1 mg/Kg	UJ	%R = 65.3 LCL=75 UCL=125	SD<LCL
Thallium	AOC4-BCW2-3132	2 mg/Kg	UJ	%R = 71.2 LCL=75 UCL=125	MS<LCL
	AOC4-BCW2-3132	2 mg/Kg	UJ	%R = 70.8 LCL=75 UCL=125	SD<LCL
Zinc	AOC4-BCW2-3132	32 mg/Kg	J	PS%R<80, sample >25xRL	PDS<LCL
	AOC4-BCW2-3132	32 mg/Kg	J	%R = 58.2 LCL=75 UCL=125	SD<LCL
Site: AOC 6					
Method (Matrix): SW6010B (SOIL)					
Magnesium, add	AOC6-6-0001	5200 mg/Kg	J	10.9% D	SerDil
Manganese, add	AOC6-6-0001	200 mg/Kg	J	%R = 71.9 LCL=75 UCL=125	MS<LCL
Potassium, add	AOC6-6-0001	1300 mg/Kg	J	%R = 41.3 LCL=75 UCL=125	MS<LCL
	AOC6-6-0001	1300 mg/Kg	J	%R = 40.8 LCL=75 UCL=125	SD<LCL
	AOC6-7-14021	1800 mg/Kg	J	211% vs 75-125%	PDS>UCL
Silver	AOC6-5-14019	1.1 mg/Kg	UJ	130% vs 75-125%	PDS>UCL
	AOC6-5-14020	1 mg/Kg	UJ	130% vs 75-125%	PDS>UCL
	AOC6-7-14021	1.1 mg/Kg	UJ	130% vs 75-125%	PDS>UCL
	AOC6-7-14022	1 mg/Kg	UJ	130% vs 75-125%	PDS>UCL
Zinc	AOC6-6-0001	64 mg/Kg	J	10.6% D	SerDil
Method (Matrix): SW8082 (SOIL)					
Aroclor 1016	AOC6-7-14013	18 ug/Kg	UJ	%R=255 LCL=41 UCL =138	MS>UCL
	AOC6-7-14013	18 ug/Kg	UJ	MSRPD = 24.8 Limit = 20	MSRPD
	AOC6-7-14013	18 ug/Kg	UJ	%R=199 LCL=41 UCL =138	SD>UCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: AOC 6					
Method (Matrix): SW8082 (SOIL)					
Aroclor 1260	AOC6-7-14013	1100 ug/Kg	J	%R=343 LCL=61 UCL =131	MS>UCL
	AOC6-7-14013	1100 ug/Kg	J	MSRPD = 58.3 Limit = 20	MSRPD
	AOC6-7-14013	1100 ug/Kg	J	%R=-90.3 LCL=61 UCL =131	SD<LCL
Site: Perimeter Area					
Method (Matrix): SW8015-E (SOIL)					
Motor Oil	PA-07-1	360 mg/Kg	J	%R = 44.4 LCL=60 UCL=120	MS<LCL
	PA-07-1	360 mg/Kg	J	%R = 10.7 LCL=60 UCL=120	SD<LCL
Site: Storm Drain					
Method (Matrix): SW6010B (SOIL)					
Selenium	SD-31-01	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	SD-31-02	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	SD-31-03	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	SD-31-PIPE	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	SD-39-OS1-1001	1 mg/Kg	UJ	%R = 60.7 LCL=75 UCL=125	MS<LCL
	SD-39-OS1-1001	1 mg/Kg	UJ	61.5% vs 75-125%	PDS<LCL
	SD-39-OS1-1001	1 mg/Kg	UJ	%R = 60.4 LCL=75 UCL=125	SD<LCL
	SD-39-OS1-1002	1 mg/Kg	UJ	61.5% vs 75-125%	PDS<LCL
	SD-39-OS1-1003	1 mg/Kg	UJ	61.5% vs 75-125%	PDS<LCL
	SD-39-OS1-1004	1 mg/Kg	UJ	61.5% vs 75-125%	PDS<LCL
Silver	SD-31-01	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	SD-31-02	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	SD-31-03	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	SD-31-PIPE	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	SD-39-OS1-1001	1 mg/Kg	UJ	%R = 58.9 LCL=75 UCL=125	MS<LCL
Thallium	SD-31-01	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	SD-31-02	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: Storm Drain					
Method (Matrix): SW6010B (SOIL)					
Thallium	SD-31-03	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	SD-31-PIPE	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	SD-39-OS1-1001	2 mg/Kg	UJ	%R = 66.4 LCL=75 UCL=125	MS<LCL
	SD-39-OS1-1001	2 mg/Kg	UJ	67.5% vs 75-125%	PDS<LCL
	SD-39-OS1-1001	2 mg/Kg	UJ	%R = 66.6 LCL=75 UCL=125	SD<LCL
	SD-39-OS1-1002	2.1 mg/Kg	UJ	67.5% vs 75-125%	PDS<LCL
	SD-39-OS1-1003	2.1 mg/Kg	UJ	67.5% vs 75-125%	PDS<LCL
	SD-39-OS1-1004	2 mg/Kg	UJ	67.5% vs 75-125%	PDS<LCL
Site: SWMU 1					
Method (Matrix): SW6010B (SOIL)					
Antimony	SWMU1-18-1109	2.4 mg/Kg	UJ	%R = 57.5 LCL=75 UCL=125	MS<LCL
	SWMU1-18-1109	2.4 mg/Kg	UJ	%R = 58.6 LCL=75 UCL=125	SD<LCL
Barium	SWMU1-18-1109	66 mg/Kg	J	%R = 74.5 LCL=75 UCL=125	SD<LCL
Chromium	SWMU1-18-1109	33 mg/Kg	J	%R = 74.3 LCL=75 UCL=125	SD<LCL
Selenium	SWMU1-18-1109	1.2 mg/Kg	UJ	%R = 67.4 LCL=75 UCL=125	MS<LCL
	SWMU1-18-1109	1.2 mg/Kg	UJ	%R = 68.1 LCL=75 UCL=125	SD<LCL
	SWMU1-21-1137	1 mg/Kg	UJ	%R = 60.3 LCL=75 UCL=125	MS<LCL
	SWMU1-21-1137	1 mg/Kg	UJ	%R = 59.3 LCL=75 UCL=125	SD<LCL
	SWMU1-28-1172	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	SWMU1-28-1173	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	SWMU1-28-1174	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	SWMU1-29-1175	1 mg/Kg	UJ	%R = 17.8 LCL=75 UCL=125	MS<LCL
	SWMU1-29-1175	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	SWMU1-29-1175	1 mg/Kg	UJ	%R = 15.1 LCL=75 UCL=125	SD<LCL
	SWMU1-29-1176	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
	SWMU1-29-1177	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: SWMU 1					
Method (Matrix): SW6010B (SOIL)					
Selenium	SWMU1-29-1178	1 mg/Kg	UJ	14.7% vs 75-125%	PDS<LCL
Silver	SWMU1-28-1172	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	SWMU1-28-1173	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	SWMU1-28-1174	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	SWMU1-29-1175	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	SWMU1-29-1176	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	SWMU1-29-1177	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
	SWMU1-29-1178	1 mg/Kg	UJ	74.1% vs 75-125%	PDS<LCL
Thallium	SWMU1-28-1172	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	SWMU1-28-1173	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	SWMU1-28-1174	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	SWMU1-29-1175	2 mg/Kg	UJ	%R = 61.3 LCL=75 UCL=125	MS<LCL
	SWMU1-29-1175	2 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	SWMU1-29-1175	2 mg/Kg	UJ	%R = 59.4 LCL=75 UCL=125	SD<LCL
	SWMU1-29-1176	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	SWMU1-29-1177	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
	SWMU1-29-1178	2.1 mg/Kg	UJ	58.7% vs 75-125%	PDS<LCL
Zinc	SWMU1-18-1109	46 mg/Kg	J	%R = 62.1 LCL=75 UCL=125	MS<LCL
	SWMU1-18-1109	46 mg/Kg	J	%R = 62.3 LCL=75 UCL=125	SD<LCL
	SWMU1-29-1175	28 mg/Kg	J	%R = 74.5 LCL=75 UCL=125	MS<LCL
	SWMU1-29-1175	28 mg/Kg	J	Serial dilution > 10% D	SerDil
Method (Matrix): SW8270C (SOIL)					
Benzaldehyde, add	SWMU1-28-1172	710 ug/Kg	UJ	%R = 66.2 LCL=70 UCL=130	MS<LCL
	SWMU1-28-1172	710 ug/Kg	UJ	%R = 69.8 LCL=70 UCL=130	SD<LCL
Caprolactam, add	SWMU1-28-1172	330 ug/Kg	UJ	%R = 54 LCL=70 UCL=130	MS<LCL
	SWMU1-28-1172	330 ug/Kg	UJ	%R = 57 LCL=70 UCL=130	SD<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

Analyte	Sample Identification	Result	MS/MSD Qualifier*	MS Recovery	Criteria
Site: SWMU 1					
Method (Matrix): SW8270C (SOIL)					
Hexachlorocyclopentadiene, add	SWMU1-28-1172	670 ug/Kg	UJ	%R = 50.2 LCL=57 UCL=108	MS<LCL
	SWMU1-28-1172	670 ug/Kg	UJ	%R = 52.4 LCL=57 UCL=108	SD<LCL
Method (Matrix): SW8290 (SOIL)					
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	SWMU1-29-1175	240 PG/G	J	%R = -58 LCL=70 UCL=130	MS<LCL
	SWMU1-29-1175	240 PG/G	J	MSRPD = 41.05 Limit =20	MSRPD
	SWMU1-29-1175	240 PG/G	J	%R = 36 LCL=70 UCL=130	SD<LCL
1,2,3,4,7,8,9-Heptachlorodibenzofuran	SWMU1-21-1153	49 PG/G	J	MSRPD = 28.03 Limit =20	MSRPD
	SWMU1-21-1153	49 PG/G	J	%R = 68.8 LCL=70 UCL=130	SD<LCL
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	SWMU1-21-1153	130 PG/G	J	MSRPD = 23.7 Limit =20	MSRPD
	SWMU1-21-1153	130 PG/G	J	%R = 44.8 LCL=70 UCL=130	SD<LCL
OCDF	SWMU1-29-1175	56 PG/G	J	%R = 64.7 LCL=70 UCL=130	MS<LCL

TABLE A6

Matrix Spike Precision/Accuracy - Qualified Data

%R = percent recovery
LCL = lower control limit
UCL = upper control limit

mg/Kg = milligrams per kilogram
PG/G = picograms per gram
ug/Kg = micrograms per kilogram

* 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.
R = The data are unusable because of deficiencies in the ability to analyze the sample and meet quality control (QC) criteria.
UJ = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL). The quantitation is an estimate.

Criteria:

LabA&P	=	Laboratory accuracy and precision criteria not met
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 recovery < lower acceptance limit
PDS>UCL	=	Post-digestion spike recovery > upper acceptance limit
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 %D>UCL

TABLE A7

Surrogate Recovery - Qualified Data

Sample Identification	Analyte	Result	Surrogate Qualifier*	Surrogate Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW8081A (SOIL)					
AOC1-T2h-335	**4,4'-DDD**	2.1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	4,4'-DDE	2.1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	4,4'-DDT	2.1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	Aldrin	1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	alpha-BHC	1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	alpha-Chlordane	1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	beta-BHC	1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	delta-BHC	1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	Dieldrin	2.1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	Endosulfan I	1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	Endosulfan II	2.1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	Endosulfan sulfate	2.1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	Endrin	2.1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	Endrin aldehyde	2.1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	gamma-BHC	1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	gamma-Chlordane	1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	Heptachlor	1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	Heptachlor epoxide	1 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	Methoxychlor	5.2 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
	Toxaphene	52 ug/Kg	UJ	%R=35.8 LCL=36 UCL=124	Sur<LCL
Method (Matrix): SW8082 (SOIL)					
AOC1-T2h-335	**Aroclor 1016**	17 ug/Kg	UJ	%R=46 LCL=48 UCL=121	Sur<LCL
	Aroclor 1221	34 ug/Kg	UJ	%R=46 LCL=48 UCL=121	Sur<LCL
	Aroclor 1232	17 ug/Kg	UJ	%R=46 LCL=48 UCL=121	Sur<LCL
	Aroclor 1242	17 ug/Kg	UJ	%R=46 LCL=48 UCL=121	Sur<LCL
	Aroclor 1248	17 ug/Kg	UJ	%R=46 LCL=48 UCL=121	Sur<LCL
	Aroclor 1254	17 ug/Kg	UJ	%R=46 LCL=48 UCL=121	Sur<LCL
	Aroclor 1260	17 ug/Kg	UJ	%R=46 LCL=48 UCL=121	Sur<LCL
Method (Matrix): SW8270C (SOIL)					
TCS-4-02	**1,2,4-Trichlorobenzene**	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	1,2-Dichlorobenzene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL

TABLE A7

Surrogate Recovery - Qualified Data

Sample Identification	Analyte	Result	Surrogate Qualifier*	Surrogate Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW8270C (SOIL)					
TCS-4-02	**1,2-Dichlorobenzene**	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	1,3-Dichlorobenzene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	1,4-Dichlorobenzene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	2,4,5-Trichlorophenol	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	2,4,6-Trichlorophenol	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	2,4-Dichlorophenol	1700 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		1700 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	2,4-Dimethylphenol	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	2,4-Dinitrophenol	1700 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		1700 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	2,4-Dinitrotoluene	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	2,6-Dinitrotoluene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	2-Chloronaphthalene	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	2-Chlorophenol	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	2-Methylnaphthalene	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	2-Methylphenol	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	2-Nitroaniline	1700 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		1700 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	2-Nitrophenol	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	3,3'-Dichlorobenzidine	670 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		670 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL

TABLE A7

Surrogate Recovery - Qualified Data

Sample Identification	Analyte	Result	Surrogate Qualifier*	Surrogate Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW8270C (SOIL)					
TCS-4-02	**3-Nitroaniline**	1700 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		1700 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	4,6-Dinitro-2-methylphenol	1700 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		1700 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	4-Bromophenyl phenyl ether	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	4-Chloro-3-methylphenol	670 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		670 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	4-Chloroaniline	670 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		670 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	4-Chlorophenyl phenyl ether	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	4-Methylphenol	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	4-Nitroaniline	1700 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		1700 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	4-Nitrophenol	1700 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		1700 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Acenaphthene	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	Acenaphthylene	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	Anthracene	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	Benzo (a) anthracene	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	Benzo (a) pyrene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Benzo (b) fluoranthene	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	Benzo (g,h,i) perylene	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	Benzo (k) fluoranthene	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL

TABLE A7

Surrogate Recovery - Qualified Data

Sample Identification	Analyte	Result	Surrogate Qualifier*	Surrogate Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW8270C (SOIL)					
TCS-4-02	**Benzo (k) fluoranthene**	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	Benzoic acid	1700 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		1700 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	Benzyl alcohol	670 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		670 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	bis (2-chloroethoxy) methane	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	bis (2-chloroethyl) ether	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	bis (2-chloroisopropyl) ether	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	bis (2-ethylhexyl) phthalate	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Butylbenzylphthalate	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Chrysene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Dibenzo (a,h) anthracene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Dibenzofuran	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Diethyl phthalate	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Dimethyl phthalate	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Di-n-butylphthalate	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Di-n-octylphthalate	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Fluoranthene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Fluorene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL

TABLE A7

Surrogate Recovery - Qualified Data

Sample Identification	Analyte	Result	Surrogate Qualifier*	Surrogate Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW8270C (SOIL)					
TCS-4-02	**Hexachlorobenzene**	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Hexachlorobutadiene	670 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		670 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Hexachloroethane	330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	Indeno (1,2,3-c,d) pyrene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Isophorone	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Naphthalene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Nitrobenzene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	n-Nitrosodi-n-propylamine	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	n-Nitrosodiphenylamine	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Pentachlorophenol	1700 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
		1700 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
	Phenanthrene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Phenol	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
	Pyrene	330 ug/Kg	UJ	%R=34 LCL=37 UCL=125	Sur<LCL
		330 ug/Kg	UJ	%R=8.03 LCL=36 UCL=126	Sur<LCL
Method (Matrix): SW8270SIM (SOIL)					
AOC1-BCW13-200	**Chrysene**	7.1 ug/Kg	J	%R=140 LCL=25 UCL=135	Sur>UCL
TCS4-E-05		73 ug/Kg	J	%R=239 LCL=14 UCL=129	Sur>UCL
		73 ug/Kg	J	%R=200 LCL=25 UCL=135	Sur>UCL
TCS4-E-06	**Benzo (a) anthracene**	27 ug/Kg	J	%R=210 LCL=25 UCL=135	Sur>UCL
		27 ug/Kg	J	%R=244 LCL=14 UCL=129	Sur>UCL

TABLE A7

Surrogate Recovery - Qualified Data

Sample Identification	Analyte	Result	Surrogate Qualifier*	Surrogate Recovery	Criteria
Site: AOC 1					
Method (Matrix): SW8270SIM (SOIL)					
TCS4-E-06	**Benzo (b) fluoranthene**	82 ug/Kg	J	%R=244 LCL=14 UCL=129	Sur>UCL
		82 ug/Kg	J	%R=210 LCL=25 UCL=135	Sur>UCL
	Benzo (g,h,i) perylene	8.2 ug/Kg	J	%R=210 LCL=25 UCL=135	Sur>UCL
		8.2 ug/Kg	J	%R=244 LCL=14 UCL=129	Sur>UCL
	Benzo (k) fluoranthene	39 ug/Kg	J	%R=244 LCL=14 UCL=129	Sur>UCL
		39 ug/Kg	J	%R=210 LCL=25 UCL=135	Sur>UCL
	Chrysene	65 ug/Kg	J	%R=210 LCL=25 UCL=135	Sur>UCL
		65 ug/Kg	J	%R=244 LCL=14 UCL=129	Sur>UCL
	Fluoranthene	80 ug/Kg	J	%R=210 LCL=25 UCL=135	Sur>UCL
		80 ug/Kg	J	%R=244 LCL=14 UCL=129	Sur>UCL
	Phenanthrene	35 ug/Kg	J	%R=244 LCL=14 UCL=129	Sur>UCL
		35 ug/Kg	J	%R=210 LCL=25 UCL=135	Sur>UCL
	Pyrene	73 ug/Kg	J	%R=244 LCL=14 UCL=129	Sur>UCL
		73 ug/Kg	J	%R=210 LCL=25 UCL=135	Sur>UCL
Method (Matrix): SW8290 (SOIL)					
AOC1-3-166	**1,2,3,4,6,7,8-Heptachlorodibenzofuran**	670 PG/G	J	%R=141 LCL=40 UCL=135	Sur>UCL
	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	6200 PG/G	J	%R=141 LCL=40 UCL=135	Sur>UCL
	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	62 PG/G	J	%R=141 LCL=40 UCL=135	Sur>UCL
	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	230 PG/G	J	%R=141 LCL=40 UCL=135	Sur>UCL
	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	140 PG/G	J	%R=141 LCL=40 UCL=135	Sur>UCL
	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	37 PG/G	J	%R=141 LCL=40 UCL=135	Sur>UCL
	2,3,4,7,8-Pentachlorodibenzofuran	15 PG/G	J	%R=141 LCL=40 UCL=135	Sur>UCL
	OCDD	45000 PG/G	J	%R=136 LCL=40 UCL=135	Sur>UCL
		45000 PG/G	J	%R=143 LCL=40 UCL=135	Sur>UCL
	OCDF	730 PG/G	J	%R=141 LCL=40 UCL=135	Sur>UCL
	TEQ	54 PG/G	J	%R=141 LCL=40 UCL=135	Sur>UCL
AOC1-3-167	**OCDD**	33000 PG/G	J	%R=141 LCL=40 UCL=135	Sur>UCL
Site: AOC 13					
Method (Matrix): SW8270SIM (SOIL)					
AOC13-31-17059	**Benzo (a) anthracene**	9 ug/Kg	J	%R =130 LCL: 14 UCL:129	Sur>UCL
	Chrysene	13 ug/Kg	J	%R =130 LCL: 14 UCL:129	Sur>UCL
	Fluoranthene	22 ug/Kg	J	%R =130 LCL: 14 UCL:129	Sur>UCL

TABLE A7

Surrogate Recovery - Qualified Data

Sample Identification	Analyte	Result	Surrogate Qualifier*	Surrogate Recovery	Criteria
Site: AOC 13					
Method (Matrix): SW8270SIM (SOIL)					
AOC13-31-17059	**Phenanthrene**	7.5 ug/Kg	J	%R =130 LCL: 14 UCL:129	Sur>UCL
	Pyrene	20 ug/Kg	J	%R =130 LCL: 14 UCL:129	Sur>UCL
AOC13-31-17060	**Benzo (a) anthracene**	18 ug/Kg	J	%R =136 LCL: 14 UCL:129	Sur>UCL
	Chrysene	28 ug/Kg	J	%R =136 LCL: 14 UCL:129	Sur>UCL
	Fluoranthene	35 ug/Kg	J	%R =136 LCL: 14 UCL:129	Sur>UCL
	Phenanthrene	8.1 ug/Kg	J	%R =136 LCL: 14 UCL:129	Sur>UCL
	Pyrene	35 ug/Kg	J	%R =136 LCL: 14 UCL:129	Sur>UCL
AOC13-33-DEBRIS	**1-Methylnaphthalene**	54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
	2-Methylnaphthalene	54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
	Acenaphthene	54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
	Acenaphthylene	54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
	Anthracene	54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
	Benzo (a) anthracene	160 ug/Kg	J	%R=0 LCL=34 UCL=135	Sur<LCL
		160 ug/Kg	J	%R=0 LCL=25 UCL=135	Sur<LCL
		160 ug/Kg	J	%R=0 LCL=25 UCL=110	Sur<LCL
		160 ug/Kg	J	%R=170 LCL=14 UCL=129	Sur>UCL
	Benzo (a) pyrene	54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
	Benzo (b) fluoranthene	54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
	Benzo (g,h,i) perylene	54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL

TABLE A7

Surrogate Recovery - Qualified Data

Sample Identification	Analyte	Result	Surrogate Qualifier*	Surrogate Recovery	Criteria
Site: AOC 13					
Method (Matrix): SW8270SIM (SOIL)					
AOC13-33-DEBRIS	**Benzo (g,h,i) perylene**	54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
	Benzo (k) fluoranthene	54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
	Chrysene	79 ug/Kg	J	%R=0 LCL=25 UCL=110	Sur<LCL
		79 ug/Kg	J	%R=0 LCL=25 UCL=135	Sur<LCL
		79 ug/Kg	J	%R=0 LCL=34 UCL=135	Sur<LCL
		79 ug/Kg	J	%R=170 LCL=14 UCL=129	Sur>UCL
	Dibenzo (a,h) anthracene	54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
	Fluoranthene	54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
	Fluorene	54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
	Indeno (1,2,3-c,d) pyrene	54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
	Naphthalene	54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
	Phenanthrene	54 ug/Kg	UJ	%R=0 LCL=25 UCL=135	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=25 UCL=110	Sur<LCL
		54 ug/Kg	UJ	%R=0 LCL=34 UCL=135	Sur<LCL
	Pyrene	64 ug/Kg	J	%R=0 LCL=25 UCL=110	Sur<LCL
		64 ug/Kg	J	%R=0 LCL=25 UCL=135	Sur<LCL
		64 ug/Kg	J	%R=0 LCL=34 UCL=135	Sur<LCL
		64 ug/Kg	J	%R=170 LCL=14 UCL=129	Sur>UCL
Site: AOC 20					

TABLE A7

Surrogate Recovery - Qualified Data

Sample Identification	Analyte	Result	Surrogate Qualifier*	Surrogate Recovery	Criteria
Site: AOC 20					
Method (Matrix): SW8082 (SOIL)					
AOC20-09-OS1-1001	**Aroclor 1254**	1900 ug/Kg	J	%R=140.12 LCL=48 UCL=121	Sur>UCL
	Aroclor 1260	1300 ug/Kg	J	%R=140.12 LCL=48 UCL=121	Sur>UCL
Site: AOC 6					
Method (Matrix): SW8082 (SOIL)					
AOC6-2-14003	**Aroclor 1254**	420 ug/Kg	J	%R=141 LCL=48 UCL=121	Sur>UCL
	Aroclor 1260	180 ug/Kg	J	%R=141 LCL=48 UCL=121	Sur>UCL
Site: Storm Drain					
Method (Matrix): SW8082 (SOIL)					
SD-31-01	**Aroclor 1254**	950 ug/Kg	J	%R=202 LCL=26 UCL=125	Sur>UCL
	Aroclor 1260	280 ug/Kg	J	%R=202 LCL=26 UCL=125	Sur>UCL
SD-31-02	**Aroclor 1254**	1100 ug/Kg	J	%R=187 LCL=26 UCL=125	Sur>UCL
	Aroclor 1260	400 ug/Kg	J	%R=187 LCL=26 UCL=125	Sur>UCL
Method (Matrix): SW8270SIM (SOIL)					
SD-31-01	**1-Methylnaphthalene**	6.9 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Acenaphthene	30 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Acenaphthylene	70 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Anthracene	210 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Benzo (a) anthracene	1300 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Benzo (a) pyrene	1400 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Benzo (b) fluoranthene	2800 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Benzo (g,h,i) perylene	1800 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Benzo (k) fluoranthene	930 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Chrysene	1400 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Fluoranthene	2300 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Fluorene	23 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Indeno (1,2,3-c,d) pyrene	1500 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Phenanthrene	840 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Pyrene	2500 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
SD-31-02	**1-Methylnaphthalene**	9.3 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	2-Methylnaphthalene	6.2 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Acenaphthene	34 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL

TABLE A7

Surrogate Recovery - Qualified Data

Sample Identification	Analyte	Result	Surrogate Qualifier*	Surrogate Recovery	Criteria
Site: Storm Drain					
Method (Matrix): SW8270SIM (SOIL)					
SD-31-02	**Acenaphthylene**	76 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Anthracene	230 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Benzo (a) anthracene	1700 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Benzo (a) pyrene	1600 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Benzo (b) fluoranthene	3600 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Benzo (g,h,i) perylene	1700 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Benzo (k) fluoranthene	670 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Chrysene	1800 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Fluoranthene	3000 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Fluorene	27 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Indeno (1,2,3-c,d) pyrene	1500 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Naphthalene	6.2 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Phenanthrene	1000 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
	Pyrene	3100 ug/Kg	J	%R=140 LCL=25 UCL=110	Sur>UCL
Site: SWMU 1					
Method (Matrix): SW8082 (SOIL)					
SWMU1-25-1148	**Aroclor 1254**	46 ug/Kg	J	%R=291 LCL=26 UCL=125	Sur>UCL

TABLE A7
Surrogate Recovery - Qualified Data

%R = percent recovery
LCL = lower control limit
UCL = upper control limit

PG/G = picograms per gram
ug/Kg = micrograms per kilogram

* 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.
UJ = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL). The quantitation is an estimate.

Criteria:

Sur<LCL = Surrogate recovery less than lower limit
Sur>UCL = Surrogate recovery greater than upper limit

TABLE A8

Internal Standards - Qualified Data

Sample Identification	Analyte	Result	Internal Standard Qualifier*	Criteria
Site: AOC 1				
Method (Matrix): SW8270SIM (SOIL)				
AOC1-BCW24-244				
	Benzo (a) pyrene	8 ug/Kg	J	IS<LCL
	Benzo (b) fluoranthene	17 ug/Kg	J	IS<LCL
	Benzo (k) fluoranthene	7.6 ug/Kg	J	IS<LCL
AOC1-BCW26-252				
	Benzo (a) pyrene	14 ug/Kg	J	IS<LCL
	Benzo (b) fluoranthene	31 ug/Kg	J	IS<LCL
	Benzo (k) fluoranthene	13 ug/Kg	J	IS<LCL
TCS4-E-06				
	Benzo (a) anthracene	27 ug/Kg	J	IS<LCL
	Benzo (g,h,i) perylene	8.2 ug/Kg	J	IS<LCL
	Benzo (k) fluoranthene	39 ug/Kg	J	IS<LCL
Site: AOC 13				
Method (Matrix): SW8270SIM (SOIL)				
AOC13-33-17079				
	Benzo (a) pyrene	33 ug/Kg	J	IS<LCL
	Benzo (g,h,i) perylene	5.9 ug/Kg	J	IS<LCL
	Benzo (k) fluoranthene	34 ug/Kg	J	IS<LCL
	Indeno (1,2,3-c,d) pyrene	6.9 ug/Kg	J	IS<LCL
AOC13-33-SCALE				
	Benzo (g,h,i) perylene	22 ug/Kg	J	IS<LCL
	Indeno (1,2,3-c,d) pyrene	25 ug/Kg	J	IS<LCL
Site: AOC 20				
Method (Matrix): SW8270SIM (SOIL)				
AOC20-09-OS1-1002				
	Benzo (a) pyrene	36 ug/Kg	J	IS<LCL
	Benzo (g,h,i) perylene	8.3 ug/Kg	J	IS<LCL
	Benzo (k) fluoranthene	33 ug/Kg	J	IS<LCL
	Indeno (1,2,3-c,d) pyrene	8.3 ug/Kg	J	IS<LCL
AOC20-09-OS1-1003				
	Benzo (k) fluoranthene	55 ug/Kg	J	IS<LCL
	Indeno (1,2,3-c,d) pyrene	16 ug/Kg	J	IS<LCL

TABLE A8

Internal Standards - Qualified Data

Sample Identification	Analyte	Result	Internal Standard Qualifier*	Criteria
Site: AOC 6				
Method (Matrix): SW8270SIM (SOIL)				
AOC6-2-14003				
	Benzo (a) pyrene	19 ug/Kg	J	IS<LCL
	Benzo (b) fluoranthene	51 ug/Kg	J	IS<LCL
	Benzo (g,h,i) perylene	5.5 ug/Kg	J	IS<LCL
	Benzo (k) fluoranthene	17 ug/Kg	J	IS<LCL
	Dibenzo (a,h) anthracene	5.2 ug/Kg	UJ	IS<LCL
	Indeno (1,2,3-c,d) pyrene	5.2 ug/Kg	J	IS<LCL
AOC6-7-14014				
	Benzo (g,h,i) perylene	10 ug/Kg	J	IS<LCL
	Benzo (k) fluoranthene	32 ug/Kg	J	IS<LCL
	Indeno (1,2,3-c,d) pyrene	10 ug/Kg	J	IS<LCL
Site: Storm Drain				
Method (Matrix): SW8270SIM (SOIL)				
SD-31-03				
	Benzo (a) pyrene	48 ug/Kg	J	IS<LCL
	Benzo (g,h,i) perylene	15 ug/Kg	J	IS<LCL
	Benzo (k) fluoranthene	38 ug/Kg	J	IS<LCL
	Indeno (1,2,3-c,d) pyrene	15 ug/Kg	J	IS<LCL

ug/Kg = micrograms per kilogram

* 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.

UJ = The analyte was analyzed for, but not detected. The associated numerical value is at or below the reporting limit (RL). The quantitation is an estimate.

Criteria:

IS<LCL **=** Internal standard response less than lower control limit

TABLE A9

Site Completeness by Analyte - Qualified Data

Method	Analyte	Units	Number of Occurrences						Contractor Completeness (%)	Overall Completeness (%)
			Analyses	Detects	Non-detects	Blank Flags	J-Flags	Contractor R-Flags / Total R-Flags		
D2216	Percent Moisture	%	231	230	7		35	7	100	97
SM4500-CN	Cyanide	MG/KG	1		1				100	100
SW6010B	Aluminum, add	MG/KG	16	16					100	100
	Antimony	MG/KG	393	11	382		17		100	100
	Arsenic	MG/KG	393	345	48		3		100	100
	Barium	MG/KG	393	393			26		100	100
	Beryllium	MG/KG	393		393		3		100	100
	Cadmium	MG/KG	393	30	363		4		100	100
	Calcium, add	MG/KG	16	16					100	100
	Chromium	MG/KG	393	393			28		100	100
	Cobalt	MG/KG	393	393			9		100	100
	Copper	MG/KG	393	393			14		100	100
	Iron, add	MG/KG	16	16			2		100	100
	Lead	MG/KG	393	369	24		14		100	100
	Magnesium, add	MG/KG	16	16			1		100	100
	Manganese, add	MG/KG	16	16			4		100	100
	Molybdenum	MG/KG	393	38	355		3		100	100
	Nickel	MG/KG	393	393			24		100	100
	Potassium, add	MG/KG	16	16			2		100	100
	Selenium	MG/KG	393	3	390		66		100	100
	Silver	MG/KG	393		393		26		100	100
	Sodium, add	MG/KG	16	16					100	100
	Thallium	MG/KG	393	7	386		44		100	100
	Vanadium	MG/KG	393	393			9		100	100
	Zinc	MG/KG	393	393			23		100	100
SW7199	Chromium, hexavalent	MG/KG	393	138	255		18		100	100
SW7471A	Mercury	MG/KG	392	34	358		1		100	100
SW8015-E	Motor Oil	MG/KG	37	31	6		4		100	100

TABLE A9

Site Completeness by Analyte - Qualified Data

Method	Analyte	Units	Number of Occurrences							Contractor Completeness (%)	Overall Completeness (%)
			Analyses	Detects	Non-detects	Blank Flags	J-Flags	Contractor R-Flags	Total R-Flags		
SW8015-E	TPH-Diesel	MG/KG	37	17	20		3			100	100
SW8015-P	TPH-Gasoline	UG/KG	27		27					100	100
SW8081A	4,4'-DDD	UG/KG	84		84		1			100	100
	4,4'-DDE	UG/KG	84		84		1			100	100
	4,4'-DDT	UG/KG	84		84		2			100	100
	Aldrin	UG/KG	84		84		1			100	100
	alpha-BHC	UG/KG	84		84		1			100	100
	alpha-Chlordane	UG/KG	84		84		1			100	100
	beta-BHC	UG/KG	84		84		1			100	100
	delta-BHC	UG/KG	84		84		1			100	100
	Dieldrin	UG/KG	84		84		1			100	100
	Endosulfan I	UG/KG	84		84		1			100	100
	Endosulfan II	UG/KG	84		84		1			100	100
	Endosulfan sulfate	UG/KG	84		84		2			100	100
	Endrin	UG/KG	84		84		2			100	100
	Endrin aldehyde	UG/KG	84		84		1			100	100
	Endrin ketone	UG/KG	8		8					100	100
	gamma-BHC	UG/KG	84		84		1			100	100
	gamma-Chlordane	UG/KG	84		84		1			100	100
	Heptachlor	UG/KG	84		84		2			100	100
	Heptachlor epoxide	UG/KG	84		84		2			100	100
	Methoxychlor	UG/KG	84		84		2			100	100
	Toxaphene	UG/KG	84		84		31			100	100
SW8082	Aroclor 1016	UG/KG	212		210		7		2	100	99
	Aroclor 1221	UG/KG	212		210		5		2	100	99
	Aroclor 1232	UG/KG	212		210		5		2	100	99
	Aroclor 1242	UG/KG	212		210		15		2	100	99
	Aroclor 1248	UG/KG	212		210		13		2	100	99
	Aroclor 1254	UG/KG	212	47	164		24		1	100	100

TABLE A9

Site Completeness by Analyte - Qualified Data

Method	Analyte	Units	Number of Occurrences						Contractor Completeness (%)	Overall Completeness (%)
			Analyses	Detects	Non-detects	Blank Flags	J-Flags	Contractor R-Flags / Total R-Flags		
SW8082	Aroclor 1260	UG/KG	212	21	190		14	1	100	100
	Aroclor 1262	UG/KG	6		6				100	100
	Aroclor 1268	UG/KG	6		6				100	100
SW8260B	1,1,1,2-Tetrachloroethane	UG/KG	14		14				100	100
	1,1,1-Trichloroethane (TCA)	UG/KG	14		14				100	100
	1,1,2,2-Tetrachloroethane	UG/KG	14		14				100	100
	1,1,2-Trichloroethane	UG/KG	14		14				100	100
	1,1,2-Trichlorotrifluoroethane (Freon 113)	UG/KG	14		14				100	100
	1,1-Dichloroethane	UG/KG	14		14				100	100
	1,1-Dichloroethene	UG/KG	14		14				100	100
	1,1-Dichloropropene	UG/KG	14		14				100	100
	1,2,3-Trichlorobenzene	UG/KG	14		14				100	100
	1,2,3-Trichloropropane	UG/KG	14		14				100	100
	1,2,4-Trichlorobenzene	UG/KG	14		14				100	100
	1,2,4-Trimethylbenzene	UG/KG	14		14				100	100
	1,2-Dibromo-3-chloropropane	UG/KG	14		14				100	100
	1,2-Dibromoethane (EDB)	UG/KG	14		14				100	100
	1,2-Dichlorobenzene	UG/KG	14		14				100	100
	1,2-Dichloroethane (EDC)	UG/KG	14		14				100	100
	1,2-Dichloropropane	UG/KG	14		14				100	100
	1,3,5-Trimethylbenzene	UG/KG	14		14				100	100
	1,3-Dichlorobenzene	UG/KG	14		14				100	100
	1,3-Dichloropropane	UG/KG	14		14				100	100
	1,4-Dichlorobenzene	UG/KG	14		14				100	100
	2,2-Dichloropropane	UG/KG	14		14				100	100
	2-Butanone (MEK)	UG/KG	14		14				100	100
	2-Chlorotoluene	UG/KG	14		14				100	100
	2-Hexanone, add	UG/KG	6		6				100	100
	4-Chlorotoluene	UG/KG	14		14				100	100
	4-Isopropyltoluene	UG/KG	14		14				100	100

TABLE A9

Site Completeness by Analyte - Qualified Data

Method	Analyte	Units	Number of Occurrences						Contractor Completeness (%)	Overall Completeness (%)
			Analyses	Detects	Non-detects	Blank Flags	J-Flags	Contractor Total R-Flags		
SW8260B	4-Methyl-2-Pentanone	UG/KG	14		14				100	100
	Acetone	UG/KG	14		14		2		100	100
	Acrolein	UG/KG	14		14		1		100	100
	Acrylonitrile	UG/KG	14		14				100	100
	Benzene	UG/KG	14		14				100	100
	Bromobenzene	UG/KG	14		14				100	100
	Bromochloromethane	UG/KG	14		14				100	100
	Bromodichloromethane	UG/KG	14		14				100	100
	Bromoform	UG/KG	14		14				100	100
	Bromomethane	UG/KG	14		14				100	100
	Carbon disulfide	UG/KG	14		14				100	100
	Carbon tetrachloride	UG/KG	14		14				100	100
	Chlorobenzene	UG/KG	14		14				100	100
	Chloroethane	UG/KG	14		14				100	100
	Chloroform	UG/KG	14		14				100	100
	Chloromethane	UG/KG	14		14				100	100
	cis-1,2-Dichloroethene	UG/KG	14		14				100	100
	cis-1,3-Dichloropropene	UG/KG	14		14				100	100
	Cyclohexane, add	UG/KG	6		6				100	100
	Dibromochloromethane	UG/KG	14		14				100	100
	Dibromomethane	UG/KG	14		14				100	100
	Dichlorodifluoromethane	UG/KG	14		14				100	100
	Ethylbenzene	UG/KG	14		14				100	100
	Hexachlorobutadiene	UG/KG	14		14				100	100
	Isopropylbenzene	UG/KG	14		14		3		100	100
	m,p-Xylene	UG/KG	14		14				100	100
	Methyl Acetate, add	UG/KG	6		6		4		100	100
	Methylcyclohexane, add	UG/KG	6		6				100	100
	Methylene chloride	UG/KG	14		14				100	100
	Naphthalene	UG/KG	14		14				100	100
	n-Butylbenzene	UG/KG	14		14				100	100

TABLE A9

Site Completeness by Analyte - Qualified Data

Method	Analyte	Units	Number of Occurrences							Contractor Completeness (%)	Overall Completeness (%)
			Analyses	Detects	Non-detects	Blank Flags	J-Flags	Contractor R-Flags	Total R-Flags		
SW8260B	n-Propylbenzene	UG/KG	14		14					100	100
	o-Xylene	UG/KG	14		14					100	100
	sec-Butylbenzene	UG/KG	14		14					100	100
	Styrene	UG/KG	14		14					100	100
	tert-Butyl Methyl Ether (MTBE)	UG/KG	14		14					100	100
	tert-Butylbenzene	UG/KG	14		14					100	100
	Tetrachloroethene (PCE)	UG/KG	14		14					100	100
	Toluene	UG/KG	14		14					100	100
	trans-1,2-Dichloroethene	UG/KG	14		14					100	100
	trans-1,3-Dichloropropene	UG/KG	14		14					100	100
	Trichloroethene (TCE)	UG/KG	14		14					100	100
	Trichlorofluoromethane (Freon 11)	UG/KG	14		14					100	100
	Vinyl chloride	UG/KG	14		14					100	100
	Xylenes, Total	UG/KG	14		14					100	100
SW8270C	1,1´-Biphenyl, add	UG/KG	8		8					100	100
	1,2,4,5-Tetrachlorobenzene, add	UG/KG	8		8					100	100
	1,2,4-Trichlorobenzene	UG/KG	19		19		2			100	100
	1,2-Dichlorobenzene	UG/KG	19		19		2			100	100
	1,3-Dichlorobenzene	UG/KG	19		19		2			100	100
	1,4-Dichlorobenzene	UG/KG	19		19		2			100	100
	1,4-Dioxane, add	UG/KG	8		8					100	100
	2,3,4,6-Tetrachlorophenol, add	UG/KG	8		8					100	100
	2,4,5-Trichlorophenol	UG/KG	19		19		2			100	100
	2,4,6-Trichlorophenol	UG/KG	19		19		2			100	100
	2,4-Dichlorophenol	UG/KG	19		19		2			100	100
	2,4-Dimethylphenol	UG/KG	19		19		2			100	100
	2,4-Dinitrophenol	UG/KG	19		18		1		1	100	95
	2,4-Dinitrotoluene	UG/KG	19		19		2			100	100
	2,6-Dinitrotoluene	UG/KG	19		19		2			100	100
	2-Chloronaphthalene	UG/KG	19		19		2			100	100

TABLE A9

Site Completeness by Analyte - Qualified Data

Method	Analyte	Units	Number of Occurrences							Contractor Completeness (%)	Overall Completeness (%)
			Analyses	Detects	Non-detects	Blank Flags	J-Flags	Contractor R-Flags	Total R-Flags		
SW8270C	2-Chlorophenol	UG/KG	19		19		2			100	100
	2-Methylnaphthalene	UG/KG	19		19		2			100	100
	2-Methylphenol	UG/KG	19		19		2			100	100
	2-Nitroaniline	UG/KG	19		19		2			100	100
	2-Nitrophenol	UG/KG	19		19		2			100	100
	3,3'-Dichlorobenzidine	UG/KG	19		19		2			100	100
	3-Nitroaniline	UG/KG	19		19		2			100	100
	4,6-Dinitro-2-methylphenol	UG/KG	19		18		1		1	100	95
	4-Bromophenyl phenyl ether	UG/KG	19		19		2			100	100
	4-Chloro-3-methylphenol	UG/KG	19		19		2			100	100
	4-Chloroaniline	UG/KG	19		19		2			100	100
	4-Chlorophenyl phenyl ether	UG/KG	19		19		2			100	100
	4-Methylphenol	UG/KG	19		19		2			100	100
	4-Nitroaniline	UG/KG	19		19		2			100	100
	4-Nitrophenol	UG/KG	19		18		1		1	100	95
	Acenaphthene	UG/KG	19		19		2			100	100
	Acenaphthylene	UG/KG	19		19		2			100	100
	Acetophenone, add	UG/KG	8		8					100	100
	Anthracene	UG/KG	19		19		2			100	100
	Atrazine, add	UG/KG	8		8					100	100
	Benzaldehyde, add	UG/KG	8		8		1			100	100
	Benzo (a) anthracene	UG/KG	19	1	18		2			100	100
	Benzo (a) pyrene	UG/KG	19		19		2			100	100
	Benzo (b) fluoranthene	UG/KG	19	1	18		2			100	100
	Benzo (g,h,i) perylene	UG/KG	19		19		3			100	100
	Benzo (k) fluoranthene	UG/KG	19		19		2			100	100
	Benzoic acid	UG/KG	19		18		2		1	100	95
	Benzyl alcohol	UG/KG	19		19		2			100	100
	bis (2-chloroethoxy) methane	UG/KG	19		19		2			100	100
	bis (2-chloroethyl) ether	UG/KG	19		19		2			100	100
	bis (2-chloroisopropyl) ether	UG/KG	19		19		2			100	100

TABLE A9

Site Completeness by Analyte - Qualified Data

Method	Analyte	Units	Number of Occurrences							Contractor Completeness (%)	Overall Completeness (%)
			Analyses	Detects	Non-detects	Blank Flags	J-Flags	Contractor R-Flags	Total R-Flags		
SW8270C	bis (2-ethylhexyl) phthalate	UG/KG	19		19		2			100	100
	Butylbenzylphthalate	UG/KG	19		19		2			100	100
	Caprolactam, add	UG/KG	8		8		1			100	100
	Carbazole, add	UG/KG	8		8					100	100
	Chrysene	UG/KG	19		19		2			100	100
	Dibenzo (a,h) anthracene	UG/KG	19		19		3			100	100
	Dibenzofuran	UG/KG	19		19		2			100	100
	Diethyl phthalate	UG/KG	19		19		2			100	100
	Dimethyl phthalate	UG/KG	19		19		2			100	100
	Di-n-butylphthalate	UG/KG	19		19		2			100	100
	Di-n-octylphthalate	UG/KG	19		19		2			100	100
	Fluoranthene	UG/KG	19	2	17		2			100	100
	Fluorene	UG/KG	19		19		2			100	100
	Hexachlorobenzene	UG/KG	19		19		2			100	100
	Hexachlorobutadiene	UG/KG	19		19		2			100	100
	Hexachlorocyclopentadiene, add	UG/KG	8		8		3			100	100
	Hexachloroethane	UG/KG	19		19		2			100	100
	Indeno (1,2,3-c,d) pyrene	UG/KG	19		19		3			100	100
	Isophorone	UG/KG	19		19		2			100	100
	Naphthalene	UG/KG	19		19		2			100	100
	Nitrobenzene	UG/KG	19		19		2			100	100
	n-Nitrosodi-n-propylamine	UG/KG	19		19		2			100	100
	n-Nitrosodiphenylamine	UG/KG	19		19		2			100	100
	Pentachlorophenol	UG/KG	19		18		1		1	100	95
	Phenanthrene	UG/KG	19		19		2			100	100
	Phenol	UG/KG	19		19		2			100	100
	Pyrene	UG/KG	19	2	17		2			100	100
SW8270SIM	1-Methylnaphthalene	UG/KG	192	4	179		3		9	100	95
	2-Methylnaphthalene	UG/KG	192	4	179		2		9	100	95
	Acenaphthene	UG/KG	192	6	179		7		7	100	96

TABLE A9

Site Completeness by Analyte - Qualified Data

Method	Analyte	Units	Number of Occurrences						Contractor Completeness (%)	Overall Completeness (%)
			Analyses	Detects	Non-detects	Blank Flags	J-Flags	Contractor Total R-Flags		
SW8270SIM	Acenaphthylene	UG/KG	192	3	180		3	9	100	95
	Anthracene	UG/KG	192	15	170		7	7	100	96
	Benzo (a) anthracene	UG/KG	192	37	153		17	2	100	99
	Benzo (a) pyrene	UG/KG	192	32	158		16	2	100	99
	Benzo (b) fluoranthene	UG/KG	192	39	151		12	2	100	99
	Benzo (g,h,i) perylene	UG/KG	192	27	160		13	5	100	97
	Benzo (k) fluoranthene	UG/KG	192	32	158		16	2	100	99
	Chrysene	UG/KG	192	43	147		19	2	100	99
	Dibenzo (a,h) anthracene	UG/KG	192	4	181		4	7	100	96
	Fluoranthene	UG/KG	192	41	149		16	2	100	99
	Fluorene	UG/KG	192	4	180		6	8	100	96
	Indeno (1,2,3-c,d) pyrene	UG/KG	192	26	161		13	5	100	97
	Naphthalene	UG/KG	192	2	181		4	9	100	95
	Phenanthrene	UG/KG	192	36	154		16	2	100	99
	Pyrene	UG/KG	192	42	148		15	2	100	99
SW8290	1,2,3,4,6,7,8-Heptachlorodibenzofuran	PG/G	243	132	111		49		100	100
	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	PG/G	243	207	36		71		100	100
	1,2,3,4,7,8,9-Heptachlorodibenzofuran	PG/G	243	72	171		54		100	100
	1,2,3,4,7,8-Hexachlorodibenzofuran	PG/G	243	51	192		36		100	100
	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	PG/G	243	94	149		73		100	100
	1,2,3,6,7,8-Hexachlorodibenzofuran	PG/G	243	36	207		29		100	100
	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	PG/G	243	139	104		73		100	100
	1,2,3,7,8,9-Hexachlorodibenzofuran	PG/G	243	28	215		27		100	100
	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	PG/G	243	115	128		80		100	100
	1,2,3,7,8-Pentachlorodibenzofuran	PG/G	243	22	221		24		100	100
	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	PG/G	243	48	195		39		100	100
	2,3,4,6,7,8-Hexachlorodibenzofuran	PG/G	243	8	235		17		100	100
	2,3,4,7,8-Pentachlorodibenzofuran	PG/G	243	37	206		30		100	100
	2,3,7,8-Tetrachlorodibenzofuran	PG/G	243	60	183		61		100	100
	2,3,7,8-Tetrachlorodibenzo-p-dioxin	PG/G	243	25	218		31		100	100

TABLE A9

Site Completeness by Analyte - Qualified Data

Method	Analyte	Units	Number of Occurrences						Contractor Completeness (%)	Overall Completeness (%)
			Analyses	Detects	Non-detects	Blank Flags	J-Flags	Contractor Total R-Flags		
SW8290	OCDD	PG/G	243	205	38		44		100	100
	OCDF	PG/G	243	170	73		64		100	100
	TEQ	PG/G	243	240	3		31		100	100
SW9014	Cyanide, add	MG/KG	15		15		9		100	100
SW9045	pH	PH UNITS	71	71					100	100

% = Percent
J-Flags = Estimated results
R-Flags = Rejected results
% = percent
mg/kg = milligrams per kilogram
PG/G = picograms per gram
pH Units = Undefined Unit in tlkpUnits
ug/Kg = micrograms per kilogram

TABLE A10
Site and Sample Location Summary

Site	Location
AOC 1	AOC1-1
AOC 1	AOC1-2
AOC 1	AOC1-3
AOC 1	AOC1-4
AOC 1	AOC1-5
AOC 1	AOC1-6
AOC 1	AOC1-7
AOC 1	AOC1-8
AOC 1	AOC1-BCW10
AOC 1	AOC1-BCW11
AOC 1	AOC1-BCW12
AOC 1	AOC1-BCW13
AOC 1	AOC1-BCW14
AOC 1	AOC1-BCW15
AOC 1	AOC1-BCW16
AOC 1	AOC1-BCW17
AOC 1	AOC1-BCW18
AOC 1	AOC1-BCW19
AOC 1	AOC1-BCW20
AOC 1	AOC1-BCW21
AOC 1	AOC1-BCW22
AOC 1	AOC1-BCW23
AOC 1	AOC1-BCW24
AOC 1	AOC1-BCW25
AOC 1	AOC1-BCW26
AOC 1	AOC1-BCW27
AOC 1	AOC1-BCW28
AOC 1	AOC1-BCW29
AOC 1	AOC1-BCW30
AOC 1	AOC1-BCW6
AOC 1	AOC1-BCW7
AOC 1	AOC1-BCW8
AOC 1	AOC1-BCW9
AOC 1	AOC1-T1e
AOC 1	AOC1-T1f
AOC 1	AOC1-T1g
AOC 1	AOC1-T2f
AOC 1	AOC1-T2g
AOC 1	AOC1-T2h
AOC 1	AOC1-T2i
AOC 1	AOC1-T2j
AOC 1	AOC1-T5D
AOC 1	AOC1-T6D
AOC 1	AOC1-T7
AOC 1	AOC1-T8
AOC 1	Old Well-BCW-1

TABLE A10
Site and Sample Location Summary

Site	Location
AOC 1	Old Well-BCW-2
AOC 1	TCS-4
AOC 1	TCS4-E
AOC 1	TCS4-N
AOC 1	TCS4-S
AOC 13	AOC13-2
AOC 13	AOC13-30
AOC 13	AOC13-31
AOC 13	AOC13-33
AOC 20	AOC20-09
AOC 27	AOC27-51
AOC 28	AOC28d-01
AOC 4	AOC4-BCW1
AOC 4	AOC4-BCW2
AOC 4	AOC4-BCW3
AOC 4	AOC4-BCW4
AOC 4	AOC4-BCW5
AOC 4	AOC4-BCW6
AOC 6	AOC6-1
AOC 6	AOC6-2
AOC 6	AOC6-3
AOC 6	AOC6-4
AOC 6	AOC6-5
AOC 6	AOC6-6
AOC 6	AOC6-7
AOC 6	AOC6-8
AOC 6	AOC6-OS1
Perimeter Area	PA-07
Storm Drain	CB-13
Storm Drain	SD-14
Storm Drain	SD-19
Storm Drain	SD-31
Storm Drain	SD-39
SWMU 1	SWMU1-18
SWMU 1	SWMU1-19
SWMU 1	SWMU1-20
SWMU 1	SWMU1-21
SWMU 1	SWMU1-25
SWMU 1	SWMU1-26
SWMU 1	SWMU1-27
SWMU 1	SWMU1-28
SWMU 1	SWMU1-29
SWMU 11	SWMU11-4
SWMU 11	SWMU11-5