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QUALITY CONTROL SUMMARY REPORT

PHASE II RCRA FACILITY INVESTIGATION
Fire Training Area No. 4
SWMU Nos. 109, 110, 111, 112
Cannon Air Force Base
Clovis, New Mexico

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
Omaha District

June 1997

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DEC 1997

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FIRE TRAINING AREA No. 4
SWMU Nos. 109, 110, 111, 112
CANNON AIR FORCE BASE
CLOVIS, NEW MEXICO

Prepared for:
U. S. Department of the Army
Corps of Engineers, Omaha District
Omaha, Nebraska
USACE CONTRACT No. DACW45-94-D-0044

Prepared by:
Harza Environmental Services, Inc.
Chicago, Illinois

June, 1997

TITLE PAGE

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HARZA ENVIRONMENTAL SERVICES, INC.
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FIGURE

Figure 1: Sample Location Map

ATTACHMENT

Attachment A: Daily Quality Control Reports (DQCRs)

LIST OF ACRONYMS

AFB	Air Force Base
ARDL	Applied Research & Development Laboratory
BFB	4-Bromofluorobenzene
CCC	Calibration Check Compound
CCP	Continuing Calibration Compound
CLP	Contract Laboratory Program
COC	Chain-of-Custody
DOD	U. S. Department of Defense
DQCRs	Daily Quality Control Reports
ICS	Initial Calibration Compound
IRP	Installation Restoration Program
LCS	Laboratory Control Sample
MRD	USACE Missouri River Division
MRD-L	USACE Missouri River Division Laboratory
MS/MSD	Matrix Spike/Matrix Spike Duplicate
PARCC	Precision, Accuracy, Representativeness, Comparability and Completeness
PID	Photoionization detector (HNu Model 101)
PPE	Personal Protective Equipment
QA	Quality Assurance
QC	Quality Control
QCSR	Quality Control Summary Report
RPD	Relative Percent Difference
RFI	RCRA Facility Investigation
SAP	Sampling and Analysis Plan
SDG	Sample Delivery Group
SPCC	System Performance Check Compound
SWMU	Solid Waste Management Unit
VOA	Volatile Organic Analyte
SVOA	Semivolatile Organic Analyte
TIC	Tentatively Identified Compound
TRPH	Total Recoverable Petroleum Hydrocarbons
USACE	U. S. Army Corps of Engineers, Omaha District

1.0 PROJECT DESCRIPTION

1.1 Scope

Harza Environmental Services, Inc. (Harza) conducted a Phase II RCRA Facility Investigation (RFI) for the US Army Corps of Engineers, Omaha District (USACE) for Fire Training Area No. 4, Cannon Air Force Base (Cannon AFB), Curry County, New Mexico. The study was contracted by the USACE, Omaha District under Delivery Order 006 of Indefinite Delivery Contract DACW45-94-D-0044. This Quality Control Summary Report (QCSR) includes a brief description of the study, reviews field and laboratory quality control (QC) activities completed during the RFI, validates the soil analytical data submitted by Applied Research Development Laboratory (ARDL), and summarizes and reviews the data quality and usability.

To assess the reliability of the data collected in the RFI, certain quality assurance/quality control (QA/QC) procedures were implemented as identified in the approved RFI Work Plan (Harza, 1996). These procedures included documentation of field and laboratory activities and collection of field duplicate QC samples. The documentation provides a historical record of activities during the RFI and allows samples to be tracked from the time of collection through laboratory analysis. Field duplicate sample results were used to assess precision for the sample matrix during sampling and analysis. All Laboratory analyses assessed were performed by ARDL of Mt. Vernon, Illinois, under subcontract to Harza. Additional QA sample duplicates/splits were collected for analysis by the USACE Missouri River Division Laboratory (MRD-L). The MRD-L QA sample results are not discussed.

1.2 Site Description

Cannon AFB occupies 4,320 acres in Curry County, approximately 7 miles west of Clovis, New Mexico. Fire Training Area No. 4 is located in the southeast corner of Cannon AFB approximately 2000 ft southeast of the end of Runway 31. Fire Training Area No. 4 was reportedly used for fuel truck cleaning between 1961 and 1974. In 1974, it was activated as a fire training area and has been actively used for this purpose until recently. Fire Training Area No. 4 is comprised of four Solid Waste Management Units (SWMUs):

- SWMU No. 109 - Fire Training Pit
- SWMU No. 110 - Underground Waste Oil Tank #2336

- SWMU No. 111 - Unlined Pit; and
- SWMU No. 112 - Oil/Water Separator

SWMU No. 109 consists of a concrete lined pit and berm. A mock airplane was formerly located in the center of the pit and was used for fire training exercises. The pit contains internal drainage features such that excess fuel/water was drained to the oil-water separator (SWMU No. 112) in the northeast part of the site. The oil-water separator was activated in 1985, allegedly at the location of the former unlined pit (SWMU No. 111). Prior to 1985, the unlined pit had been used to collect runoff from the area after fires were extinguished during fire training exercises. The underground waste oil tank (SWMU No. 110) was a 2,000 gallon storage tank used to store recovered JP-4 fuel for use during fire training exercises. The tank has been removed and soil from around the tank is being land farmed on a plot adjacent to the westernmost site access gate. To prevent the downward migration of contaminants, the land farmed soil was placed on top of heavy gauge plastic.

Historic usage records indicate no evidence that Cannon AFB was used for activities involving uncommon hazardous constituents or industrial formulation. Rather, the activities likely to use or generate hazardous constituents at Fire Training Area No. 4 were related to fire training utilizing JP-4 and other appropriate materials generated by routine maintenance tasks such as cleaning engines, painting and repainting activities, paint stripping, and aircraft maintenance. Reportedly, fuel was introduced to the ground surface between 1961 and 1974. From 1974 to 1975, co-mingled waste oils, solvents, and recovered JP-4 were used as fuel for fire training exercises. Between 1975 and 1995, only recovered JP-4 has reportedly been used as a fuel. During some, but not all training exercises, the ground was saturated with water.

The Cannon AFB has been the subject of several previous Installation Restoration Program (IRP) investigations aimed at identifying and mitigating environmental contamination at the Department of Defense (DOD) facility.

1.3 Overview of Sampling Effort

Soil sampling activities at the site were conducted by Harza during February 1997 and consisted of the collection for laboratory analysis of seventy-nine (79) field soil samples. Samples were collected at approximate locations shown in Figure 1.

The samples were analyzed for Volatile Organic Analytes (VOAs), Semivolatile Organic Analytes

(SVOAs), Total Recoverable Petroleum Hydrocarbons (TRPH), cyanide, and metals. Results of the analytical data are summarized in Tables 1 through 9. Those data that are shaded denote detects. Results of QC parameters are presented in Tables 10 through 15.

1.4 Report Organization

This QCSR addresses QC practices used during this RFI, including discussion of any data which may have been influenced or compromised and any consequent impacts on the data quality objectives or remedial decisions. The QCSR will be incorporated into and referenced by the RI Report. The QCSR is organized in accordance with the General Chemistry Supplement set forth by USACE (1995). Principal sections are as follows:

- 1.0 Project Description
- 2.0 Field Quality Control Activities
- 3.0 Laboratory Quality Control Activities
- 4.0 Data Vlidation, Presentation and Evaluation
- 5.0 Daily QC Report Consolidation
- 6.0 Lessons Learned
- 7.0 References

2.0 FIELD QUALITY CONTROL ACTIVITIES

2.1 Planned Field QC Activities

Document review and equipment decontamination activities were conducted prior to and concurrent with field investigation activities. Tables were prepared to provide the field investigation team personnel with a cross-check of the required target analytes and Quality Assurance and Quality Control (QA/QC) sample requirements. Documentation of sample collection activities and sample handling activities were designed to confirm that the proposed investigation activities were completed as intended and to record any deviations from the RFI Work Plan (Harza, 1996). The Daily Quality Control Reports (DQCRs) for the field effort are provided in Attachment A.

2.1.1 Document Review

Prior to field investigation activities, project field personnel reviewed the RFI Work Plan (Harza, 1996) to familiarize themselves with the site, and understand the objectives of the investigation and the methods by which the investigation was to be performed. The RFI Work Plan (Harza, 1996) was provided to the field team for reference in the field.

2.1.2 Equipment Decontamination

All sampling equipment brought on site was decontaminated prior to each use by washing in a solution of Alconox and distilled water and triple rinsing with distilled water. Scrub brushes were provided in wash and rinse tubs to assure that residual soil and potential contamination was removed from the sampling equipment during the decontamination process. Decontamination fluids were disposed within the boundaries of the project site.

2.1.3 Sample Summary Tables

Sample summary tables were prepared for use by field personnel during site investigation activities. These tables summarized planned sample collection including target analytes, required QA/QC samples and sample handling requirements. The information provided on the sample summary tables was checked in the field by project personnel to assure that the proper number and type of samples had been collected for each of the designated target analytes.

2.1.4 Field Equipment Calibration

An HNu photoionization detector (PID) model PID-101 was utilized to perform air monitoring during drilling and sampling activities. The PID was calibrated daily prior to sampling activities in accordance with manufacturers procedures using 100 ppm isobutylene gas.

2.1.5 Sample Collection Activities

Sample collection activities included the collection of surface and subsurface soil samples. Soil samples were collected for field headspace screening, field immunoassay screening, physical description, and laboratory chemical analysis using continuous coring Rotasonic methods. All samples were collected inside of an inner core barrel in advance of the outer drill pipe to provide for minimal sample disturbance. Samples were extruded from the core barrel and placed into a plastic sleeve fitted to the end of the core barrel.

Immediately following core recovery, headspace screening was performed on the recovered samples in accordance with Standard Operating Procedure No.2 - Headspace Screening, contained in the RFI Work Plan (Harza 1996), using an HNu photoionization detector (Model PI-101) equipped with a 11.7 ev lamp. Preliminary ("informal") headspace screening was performed at 1-foot intervals along the sample by inserting the photoionization detector probe through the plastic sleeve and recording readings on the boring log (column d). The 1-foot interval with the highest headspace reading in each 10-foot interval was selected for final ("formal") headspace screening, chemical analysis, and immunoassay screening.

Collection of samples for chemical analysis and immunoassay screening was completed immediately following completion of headspace screening. Samples for chemical analysis were collected in the following order: a) volatile organic compounds; b) semi-volatile organic compounds; c) total revocerable petroleum hydrocarbons; d) metals; e) cyanide. The part of the recovered sample to be analyzed for volatile organic compounds and semi-volatile organic compounds was placed into the appropriate containers first and were properly sealed. The remaining portion of the recovered sample was placed into a stainless steel mixing bowl and homogenized using a stainless steel spoon. The homogenized soil was divided among the remaining sample containers in the order specified above and each containers was properly sealed. Samples for immunoassay screening and associated QA/QC samples were filled from the same mixtures as the field samples.

In addition to samples collected for chemical analysis, a representative sample from each 10 foot interval of each soil boring was collected for possible geotechnical analysis. Based upon laboratory analytical results and the soil types encountered, selected samples were submitted for particle size analysis and moisture content. After collection, the samples were appropriately labeled. The samples for chemical analysis were immediately placed in coolers with ice. Most of the samples were shipped the second day after collection via Fedex while some of the samples were shipped two days later due to bad weather conditions prohibiting Fedex from picking up the samples.

2.1.6 Sample Containers, Labeling, and Handling

Sample containers were provided by ARDL. All sample containers were certified as pre-cleaned by the laboratory.

Immediately following sample collection, each sample for chemical analysis was placed in a certified, pre-cleaned sample container and affixed with a sample label identifying the site name, sample number, date, and time of collection. Sample labels affixed to the respective sample containers were covered with clear tape to prevent tearing or loss of the sample identification label should it become wet or abraded during transit. Labeled samples were placed in coolers containing bagged ice to provide temperature preservation.

At the conclusion of the field work for the day, the collected samples were repacked in the sample cooler containing inert cushioning material and additional bagged ice for temperature preservation. Sample information such as identification numbers, target analytes, and sample date and time was recorded on Chain-of-Custody (COC) forms for shipment to ARDL. Completed COC forms were signed, inserted into a sealable plastic bag, and taped to the inside cover of the cooler. One signed copy of the completed COC form was retained by field personnel. All coolers containing samples were taped closed and shipping papers affixed to the outside of the cooler.

2.1.7 Documentation of Field Activities

The DQCRs were completed at the end of each day. These reports were prepared by the Field Geologist, who summarized the day's events. DQCRs are discussed further in Section 5.0.

The Field Geologist also maintained the field log book. Information contained in the field log book included personnel on-site, weather conditions, site activities, health and safety issues, air monitoring

data, PPE level, decontamination procedures, and other observations. All samples collected for chemical analysis were documented in the field log book.

Documentation activities also entailed completed Sample Collection Field Sheets (SCFSs) for all samples collected for laboratory analysis and documenting the associated QA/QC samples. Photographs of each sampling location were taken during the investigation and description of each photograph recorded.

2.2 Deviations from Planned Field QC Activities

No deviations from the planned field QC activities were noted.

2.3 Sample Quality Summary

There were no deviations from the planned field QC activities noted and, therefore, sample quality is believed to be high. With respect to field QC activities, the analytical results are considered usable.

3.0 LABORATORY QUALITY CONTROL ACTIVITIES

Overall data quality is measured and ensured by collecting and analyzing both field and laboratory QA/QC samples, as specified in the RFI Work Plan (Harza, 1996).

3.1 Field Quality Control Checks

Field quality control checks consist of collecting field duplicate and matrix spike and matrix spike duplicate (MS/MSD) samples. The Relative Percent Differences (RPD) between the field duplicates, as well as those between MS and MSD samples, are used to evaluate field precision and homogeneity. The recoveries of MS/MSD, in conjunction with other internal QC checks, determine the accuracy of analysis.

3.1.1 Field Duplicates

Samples CANFTA4-0101-0117 and CANFTA4-0102-0115 are field duplicates of CANFTA4-SB06-0117 and CANFTA4-SB13-0115, respectively. The results of these duplicates are comparable. Detailed discussion is provided in the Data Validation and Evaluation section of the QCSR.

3.1.2 Matrix Spikes/Matrix Spikes Duplicates

ARDL performed MS/MSD analyses for the analytical methods used on this project for each sample delivery group (SDG) at about 5% of the environmental samples. The actual MS/MSD samples used were chosen by ARDL from the environmental samples, as the samples intended for MS/MSD analyses were not marked on the COC form. The MS/MSD recoveries and the percent differences for VOAs and SVOAs are presented in Tables 12 and 13, respectively. As indicated in these tables, all the recoveries and percent differences between the MS/MSDs were within the USEPA recommended QC limits, suggesting that both the precision and accuracy requirements are met. Most of the inorganics had MS/MSD recoveries and RPDs within the required limits except those listed in Table 14. As shown in the table, these metals had low recoveries, indicating that the sample results for these elements may have been biased low. These low recoveries are particularly significant for antimony, which failed to meet the low recoveries in all of the five MS/MSD samples. The recoveries for manganese are noticeably low in SDG 300427. Accordingly, these metals have been flagged with "J" qualifiers. Detailed discussion on the results are provided in the Data Validation and Evaluation section of the QCSR.

3.2 Laboratory QA/QC Samples

3.2.1 Method Blanks

Method blanks are samples prepared in the laboratory and analyzed to determine the existence and magnitude of contamination resulting from laboratory activities. Method blanks were analyzed for both the organic and inorganic analytes specified for this project for each SDG. No contamination was found in any of the method blanks for inorganics. However, low concentrations of two common laboratory contaminants, methylene chloride and di-n-butylphthalate, were found in a few method blanks. Methylene chloride was detected in blanks 300427-06B1, 300434-15B1, and 300435-09B1, and di-n-butylphthalate was detected in method blanks 300433-12B1 and 300434-01B1. Consequently, the 5x and 10x rules were used in the treatment of the associated data. Referenced sample numbers are ARDL laboratory numbers. Neither of the chemicals were found in any samples at concentrations ten times greater than the blank concentrations.

3.2.2 Surrogate Spikes

Surrogate compounds are used for spiking activities to establish the laboratory's ability to accurately detect the chemicals of interest in the sample matrix. The appropriate surrogates are added to each of the samples, including method blanks, matrix spikes and matrix spike duplicates. The results are used to evaluate the accuracy of the analytical methods on a sample specific basis. Surrogates are generally brominated, fluorinated, and isotopically labeled compounds not expected to be detected in environmental media. Results are expressed as percent recovery (%R). Recoveries outside the laboratory established or EPA recommended QC windows indicate interference or systematic bias. Four VOA surrogates (toluene-d_8, 4-bromofluorobenzene (BFB), 1,2-dichloroethane-d_4, and dibromofluoromethane) were added to each of the samples for analysis by the specified method. SVOA surrogates, 2-fluorobyphenyl, 2-fluorophenyl, d5-nitrobenzene, 2,4,6-tribromophenol, d5-phenol, and d14-terphenyl, were added to all samples analyzed for SVOAs. The results of the recoveries for VOAs and SVOAs are shown in Tables 10 and 11. As indicated in these tables, the recoveries of all surrogate spikes were within the specified limits, indicating that the analytical method was accurate and the internal or laboratory accuracy requirement was partially met.

3.2.3 Laboratory Control Samples

Laboratory control samples (LCSs) are used to monitor the performance and accuracy of the analytical method. Certain LCSs are also used to determine or identify background interference or contamination of the analytical system. LCSs were prepared and analyzed for all the inorganic analytes specified for this project for each SDG. All recoveries were within acceptance limits (Table 15).The LCS recoveries for the organic analytes were not initially reported to Harza by ARDL. ARDL explained that LCS is routinely analyzed but not reported unless requested. Upon request, ARDL forwarded the LCS results for SDG 300433 for both VOAs and SVOAs. Among the VOAs, trichloroethane recoveries exceeded the upper QC limits in two of the spikes. These accedences were marginal (126% and 130% vs. upper limit of 118%), and the impact on data quality is negligible.

3.2.4 Analytical Spikes

MS/MSD recoveries are used to determine the long term accuracy of the method on various matrices to demonstrate acceptable compound recovery. Results are expressed as percent recovery. Recoveries outside USEPA recommended QC windows (method specific) indicate interference or systematic bias. The MS/MSD recoveries for all the organic analytes were with the acceptance limits. MS/MSD recoveries for the metals, antimony, manganese, and selenium were below acceptance. Consequently, samples associated with these MS/MSDs were flagged with "J" for these metals.

All samples were analyzed at method specified reporting limits (MRLs) as provided in the approved RFI Work Plan (Harza, 1996). MRLs for all the analytes on ARDLs data sheets were reviewed during the data validation process and the accuracies of the MRLs were checked.

3.3 Analytical Method Summary

The laboratory methods are summarized below with reference to EPA SW-846 and as specified in the approved RFI Work Plan (Harza, 1996):

Analyte	Preparation Method	Analysis Method
Volatile Organic Analytes	5030A	8260A
Semivolatile Organic Analytes	3550A	8270B
Metals		
Arsenic	3050	7061
Lead	3050	7421
Mercury	7470	7470
Selenium	3050	7741
Thallium	3050	7841
Other TAL Metals	3050	6010
Cyanide	9010	9010
Total Recoverable Petroleum Hydrocarbons	9071	418.1
Total Solid	None	160.3

3.4 PARCC Parameters

3.4.1 Precision and Accuracy

Precision is the measure of variability between individual sample measurements under prescribed conditions. Precision is assessed by replicate measurements of known laboratory standards and analysis of duplicate samples. Accuracy is the degree of agreement to an accepted reference or true value and is assessed by analysis of known reference standards or spiking compounds.

Precision acceptance criteria were evaluated by the RPDs between the field duplicates and the Percent Differences (%Ds) between MS/MSDs. Two pairs of field duplicates were collected and analyzed. As discussed in the Data Validation and Evaluation section of this QCSR, no RPDs for the two pairs of field duplicates were calculated, because most of the analytes in these samples were nondetects. The closeness of these duplicates was evaluated based on professional judgement. Because most of the analytes in all four samples were nondetects and acetone concentrations detected in one pair of the duplicates were comparable, it is considered that the precision criteria were met. As discussed in the Lessons Learned Section of this QCSR, the number of field duplicate samples was not collected as frequently as it is established in the RFI Work Plan. However, the impact of the fewer field duplicates on the data quality is negligible, as the vast majority samples contained no detectable analytes. Even if additional field duplicates had been collected, the data

validation results would remain the same.

The %Ds between the MS/MSDs for the organics were all within the acceptance limits, indicating good precision. The %Ds between MS/MSDs for most the inorganic parameters were within the acceptance limits except for a few metals, among which some of the elevated %Ds was considered less relevant because the sample results were greater than four times the spikes. Overall, it is considered that the precision requirements were met.

Accuracy evaluation was performed by comparing recovery results for surrogate spikes and MS/MSDs. All surrogate/system monitoring compound recoveries met USEPA QC criteria except 4-BFB in MSD recovery (72% as apposed to 76-141%) for SDG 300427. Because this recovery is only marginally low and the recoveries associated with all other samples were within the acceptance limits, the sample results are considered not affected by this low recovery.

The results of MS/MSD recoveries are summarized in Tables 12 and 13. The recoveries for all organics were within the acceptance limits. As discussed in the Data Validation and Evaluation section, the majority of the MS/MSD recoveries for the inorganics were within the required limits. Aluminum and TRPH had recoveries outside of the limits in some of the samples, but are considered not to have impacted the data because the sample results exceeded four times the spike levels. Some other analytes such as antimony, copper, or selenium had low recoveries. Consequently, these metals in those sample associated with the low MS/MSD recoveries were flagged with "J" qualifiers.

3.4.2 Representativeness

Representativeness is a qualitative indicator of the degree to which data accurately and precisely represent a characteristic of a population, sampling point, or environmental condition. Representativeness was evaluated by comparing results of samples CANFTA4-0101-0117 and CANFTA4-0102-0115, with their respective field duplicates, CANFTA4-SB06-0117 and CANFTA4-SB13-0115. The duplicates were analyzed by ARDL in the same batch. The samples are comparable and provide representative data.

3.4.3 Comparability

Comparability represents the degree of confidence with which data sets can be compared and is related to accuracy and precision as measures of data reliability. Review indicated that appropriate procedures, in accordance with the approved RFI Work Plan (Harza, 1996), were used for sampling locations, sampling and sample handling methods, and for analytical measurement procedures, methods, and reporting. All method specific analytical results were comparable, precise, and accurate. The overall quality of ARDL data analyzed met the USEPA QA/QC requirements.

3.4.4 Completeness

Completeness is defined as the percentage of the total number of valid analytical measurements taken over the total number of analytical measurements planned. The analytical data package supplied by ARDL was complete and met the overall completeness goal of 90% set for the project.

4.0 DATA VALIDATION, PRESENTATION AND EVALUATION

The objective of this review was to validate the data package forwarded by ARDL to verify that:

- QC data provided by ARDL are scientifically sound, method specific, and completely documented;
- QC samples are within established guidelines;
- Documentation is complete and correct (all anomalies in the preparation and analysis have been documented; out-of-control forms, if required, are complete, holding times are documented);
- The data is ready for incorporation into the project report; and
- The data package is complete and ready for archiving.

The data validation was performed in accordance with both the general and method specific QA/QC procedures contained in the Test Methods for Evaluating Solid Waste (SW-846, USEPA, 1994a). The criteria contained in USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1994b) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (USEPA, 1994c) were used, as appropriate. This is because the QA/QC criteria in SW-846 and in Contract Laboratory Program (CLP) are different and in this investigation all the analytes were analyzed using SW-846 methods. Because Sample Quantitation Limits (SQLs) were not reported, the MDLs were used as the quantitation limits.

For VOAs and SVOAs, the review considered the following:

- Holding Times
- Calibration-Chromatographic Resolution Initial and Continuing
- Method Blanks
- Surrogate Recovery
- Matrix Spike/Matrix Spike Duplicates
- Target Compound Identification

- Field Duplicate Sample Analyses
- Overall Assessment of Data
- Completeness of Data Package

For metals, cyanide, TRPH, and total solids, the review considered the following:

- Holding Times
- Method Blanks
- Spike Recoveries (matrix spikes, surrogate spikes, laboratory control sample spikes)
- Duplicate analysis precision (field duplicates, laboratory duplicates, and matrix spike duplicates)
- Overall Assessment of Data
- Completeness of Data Package

4.1 Volatile and Semivolatile Organic Analytes

4.1.1 Holding Times

Holding times were checked by review of COC forms and ARDLs Case Narrative, to confirm the sampling and analysis dates and times for the analytical parameters requested and performed by ARDL. All samples were analyzed within the recommended technical holding times as specified by USEPA (1994b, 1994c).

4.1.2 Instrument Performance Check

The GC/MS tuning and mass calibration was conducted using 4-BFB for VOAs and decalflourotriphenylphosphine for SVOAs. All performance checks met the required ion abundance criteria.

4.1.3 Initial and Continuing Calibration

Initial Calibration Standards (ICS) containing both volatile target analytes and system monitoring analytes were analyzed at 5, 10, 20, 50, and 100 μg/L. The ICS for SVOAs were analyzed at 10, 20, 50, 80, and 120 μg/L. Both the initial calibration Relative Response Factors (RRFs) and

Percent Relative Standard Deviations (%RSDs) and the continuing calibration RRFs and the Percent Difference (%D) between the initial RRFs and continuing RRFs were within the method specified QC limits for all the SPCC and CCC. However, a few chemicals other than the SPCC or CCC exceeded their corresponding CLP criteria. The resulting impact, if any, on the data quality due to these exceedences, was not evaluated, as the samples were not analyzed using CLP methods.

4.1.4 Method Reporting Limits

All samples were analyzed at MRLs provided in the approved RFI Work Plan (Harza, 1996). As noted in the Case Narrative, samples CANFTA4-SB01-0103, -0119, -0127, -0138, and -0142 for some VOAs, and CANFTA4-SB01-0133 and -0142 for some SVOAs, required medium level analysis. The subsequent dilutions for these compound exceeded the calibration range.

4.1.5 Method Blanks

Method blanks were analyzed at the beginning of each analytical sequence. No VOAs were detected in the blanks except methylene chloride, which was detected in blanks 300427-06B1, 300434-15B1, and 300435-09B1, and di-n-butylphthalate blanks 300433-12B1 and 300434-01B1. Consequently, 5x and 10x rules were used in the treatment of the associated data. No SVOAs were detected in any of the method blanks.

4.1.6 Surrogate Recovery

Volatile surrogates, toluene-d_8, 4-BFB, 1,2-dichloroethane-d_4 and dibromofluoromethane, were added to each sample including method blanks, matrix spike and matrix spike duplicate for samples analyzed for VOAs (Table 10). Semivolatile surrogates, 2-fluorobyphenyl, 2-fluorophenyl, d5-nitrobenzene, 2,4,6-tribromophenol, d5-phenol, and d14-terphenyl were added to all samples analyzed for SVOAs (Table 11). All surrogate recoveries were within EPA specified QC limits accept 4-BFB in MSD recovery (72% as apposed to 76-141%) for SDG 300427. Since low recovery is only marginal and the recoveries associated with all other samples were within the acceptance limits, it is considered that the sample results were not affected by this low recovery.

4.1.7 Laboratory Control Samples

The LCS recoveries for the organic analytes were not reported to Harza by ARDL. Consequently, Harza contacted ARDL and asked for an explanation. ARDL explained that LCS was analyzed, but was not reported unless requested. Upon request, ARDL forwarded the LCS results for SDG 300433 for both VOAs and SVOAs. Among the VOAs, trichloroethane recoveries exceeded the upper QC limits in two of the spikes. Because these accedences were marginal (126% and 130% vs. upper limit of 118%), the impact on data quality is considered negligible.

4.1.8 Matrix Spike/Matrix Spike Duplicates

MS/MSD samples were not marked in the sample COC. The MS/MSD samples used in the laboratory were chosen by ARDL. Samples CANFTA4-SB01-0119, -SB01-0173, -SB04-0101, -0102-0115, and -SB17-0101, and SB11-0107 were used as MS/MSDs for VOAs. Samples CANFTA4-SB01-0173, -SB13-0104, -SB09-0102, and -SB18-0143 were used as MS/MSDs for SVOAs. The results of the MS/MSD analysis are summarized in Tables 12 and 13. Both the Percent Recoveries and RPDs were within the EPA recommended QC limits, except MSD recovery for 4-BFB for sample SB01-0119, which is slightly below the required limit (72% vs. 76-141%). Since this low recovery is marginal, its impact on the sample results is considered negligible.

4.1.9 Target Compound Identification

Analytical data generated by ARDL using GC/MS were reviewed to minimize the number of erroneous identifications of compounds.

4.1.10 Field Duplicates

Samples CANFTA4-0101-0117 and CANFTA4-0102-0115 were collected as field duplicates for samples CANFTA4-SB06-0117 and CANFTA4-SB13-0115, respectively. However, the RPDs for the two pairs of field duplicates were not calculated, because most of the analytes in these samples were nondetects. All VOAs in sample CANATA4-SB06-0117 were nondetects except m&p-Xylene and Acetone, which were detected at 1.3J and 17.0J µg/kg, respectively. No VOAs were detected in sample CANATA4-0101-0117 except Acetone, which was detected at a concentration (14.1J µg/kg) comparable with its duplicate. No SVOAs were detected in sample CANATA4-0101-0117.

Di-n-Butylphtalate was the only SVOA detected (399B µg/kg) in sample CANATA4-SB06-0117. No VOAs were detected in either samples except Methylene Chloride, a common Laboratory contaminant, which was detected at 9.8 µg/kg in sample CANFTA4-0102-115. No SVOAs were detected in either of the duplicates. Because most of the analytes in all four samples were nondetects and acetone concentrations detected in one pair of the duplicates were comparable, it is considered that the precision criteria were met.

4.1.11 Overall Assessment of Data

VOA analytical data provided by ARDL for this site meets the criteria set forth in the RFI Work Plan (Harza, 1996) for this project.

4.1.12 Completeness of Data Package

The data package supplied by ARDL appeared to be complete after review, meeting the overall completeness goal of 90% set for the project in the Work Plan (Harza, 1996). The data package is therefore acceptable to Harza.

4.2 Metals, Cyanide, Trph, and Total Solids

4.2.1 Holding Times

Holding times were checked by review of COC forms and ARDL's Case Narratives, to confirm the sampling and analysis dates and times for the analytical parameters performed by ARDL. All samples were analyzed within the recommended technical holding times as specified by the methods that were used to analyze these chemicals.

4.2.2 Method Reporting Limits

All samples were analyzed at method specified detection limits provided in the approved RFI Work Plan (Harza, 1996). The MDLs reported for the inorganics by ARDL are identical to MRLs.

4.2.3 Method Blanks

Method blanks were analyzed for each SDG. No TAL metals, cyanide, TRPH, or total solid was detected in any of the blanks.

4.2.4 Matrix Spike/Matrix Spike Duplicates

One MS/MSD was analyzed for each of the five SDGs for all the inorganic analytes except potassium, sodium, calcium, magnesium, and total solid, which were analyzed in duplicates. Several analytes did not meet the required recoveries and/or RPS limits. Table 14 lists the MS %REC, MSD %REC, and RPD for those analytes that exceeded the acceptance limits for each SDG. The following briefly summarizes those accedences:

- For SDG 300427, MS/MSD recoveries for antimony, copper, manganese, and copper were below the lower limit (75%). Consequently, the sample results for these metals associated with this batch are flagged with "J" (sample result greater than the MDLs) or "UJ" (sample results lower than the MDLs) qualifiers. The recoveries for aluminum and TRPH were also outside of the required limits. However, sample results for aluminum and TRPH used for MS/MSD were four times greater than the spike levels. Consequently, no qualifiers were used for these two analytes.

- For SDG 300433, antimony, manganese, and selenium are flagged with "J" or "UJ" qualifiers due to low recovery. Aluminum and TRPH were not affected because sample results were greater than four times the spike levels.

- For SDG 300434, antimony and selenium were qualified with "J" or "UJ" because the recoveries were below the required limits. The sample results for aluminum, iron, and lead were greater than four times the spiked level and, therefore, were not affected despite the recovery failure.

- For SDG 300435, antimony data were flagged with "J" or "UJ" due to low recovery. Sample results for aluminum and iron are not flagged because the levels were greater than four times the spikes, despite their accedences in recoveries.

- For SDG 300439, antimony was qualified with "J" or "UJ" due to low recoveries. The sample results for aluminum, iron, and TRPH all exceeded four times their spike levels, despite zero recoveries. Accordingly, no qualifiers were used for these analytes.

4.2.5 Laboratory Control Samples

LCS are analyzed for all the inorganic analytes. All the recoveries were within 90-110% for cyanide and 80-120% limits for the remainder of the analytes (Table 15).

4.2.6 Sample Duplicates

Sample duplicates were analyzed for potassium, sodium, calcium, magnesium, and total solids. All Percent Differences were within 20% limits with the following exceptions: sodium (27%) in SDG 300439, potassium (31%) in SDG 300435, calcium (28%) in SDG 300427, and potassium (24%) in SDG 300433. According to EPA protocol (EPA, 1994c), all these elements in associated samples should be qualified as "J". However, since these elements are macronutrients and are considered not harmful, they were reported without "J" qualifiers.

4.2.7 Overall Assessment of Data

VOA analytical data provided by ARDL for this site meets U.S. EPA criteria set for QA/QC requirements.

4.2.8 Completeness of Data Package

The data package supplied by ARDL appeared to be complete after review, meeting the overall completeness goal of 90% set for the Duluth IAP project in the RFI Work Plan (Harza, 1996). The ARDL data package is acceptable to Harza.

5.0 DAILY QC REPORT CONSOLIDATION

Copies of the completed DQCRs for this investigation are provided in Attachment A and summarized in the following sections.

5.1 Period of Performance of Field Activities

Sampling activities began on February 19, 1997 and were completed on February 27, 1997.

5.2 Weather Conditions

During sampling activities, weather conditions were cold to mild with daily temperatures ranging between the 30's to 70's (°F). Skies were generally clear and sunny.

5.3 Work Performed

Field activities completed during this investigation included collection of seventy-nine (79) field soil samples for laboratory analysis. Additional information on the sampling activities is available in the DQCRs in Attachment A.

5.4 Quality Control Activities

Field QC activities included the collection of field QC samples and the calibration of field screening equipment. Field QC samples included MS/MSD spike samples and field duplicates. As discussed previously, no additional soil sample quantities were required for MS/MSD, which were selected by ARDL from the samples.

An HNu model PID-101 photoionization detector (PID) was calibrated using 100 ppm isobutylene gas and used for air monitoring and sample screening.

5.5 Health and Safety Levels and Activities

Personal protective equipment (PPE) used during this investigation consisted of Level D PPE. Air monitoring was conducted using an HNu. No upgrades in level of protection were required during the investigation. Health and safety briefings were conducted on a daily basis prior to work

activities. Information on Health and Safety activities was recorded on the Daily Safety Inspection Reports.

5.6 Problems Encountered/Corrective Actions Taken

No specific problems were encountered during performance of the investigation activities.

6.0 LESSONS LEARNED

The number of field duplicate samples was not collected as frequently as it is established in the RFI Work Plan. This oversight was related to the fact that more samples were collected, at the request of USACE and the New Mexico Environmental Department, after the initial sampling scope was completed. The additional field duplicates were not taken into account during the additional sampling. However, the impact of the fewer field duplicates on the data quality is negligible, as the vast majority samples contained no detectable analytes. Even if additional field duplicates had been collected, the data validation results would remain the same. This type of oversight should be avoided in the future through additional planning.

7.0 REFERENCES

Harza, 1996. RFI Work Plan. Phase II RCRA Facility Investigation. Fire Training Area No. 4. SWMU Nos. 109, 110, 111, 112. Cannon Air Force Base, Clovis, New Mexico.

U.S. Environmental Protection Agency. 1994a. Test Methods for Evaluating Solid Waste, SW-846.

U.S. Environmental Protection Agency. 1994b. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.

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USArmy Corps of Engineers, Omaha District. 1995. General Chemistry Supplement to the Scope of Services.

Table 1
Summary of Soil Analytical Results
for Soil Boring 01

Analytes	SB01-0103	SB01-0119	SB01-0127	SB01-0138	SB01-0142	SB01-0155	SB01-0165	SB01-0173	SB01-0180
VOAs (Method 8260A)	***Concentration (µg/kg)***								
Dichlorodifluoromethane	291U	301U	291U	288U	299U	2.4U	2.5U	2.3U	2.3U
Chloromethane	208U	215U	208U	206U	213U	1.7U	1.8U	1.6U	1.7U
Vinyl Chloride	180U	186U	180U	179U	185U	1.5U	1.5U	1.4U	1.4U
Bromomethane	109U	113U	109U	109U	112U	0.9U	0.93U	0.85U	0.87U
Chloroethane	208U	215U	208U	206U	213U	1.7U	1.8U	1.6U	1.7U
Trichlorofluoromethane	333U	344U	332U	330U	341U	2.7U	2.8U	2.6U	2.6U
1,1-Dichloroethene	180U	186U	180U	179U	185U	1.5U	1.5U	1.4U	1.4U
Methylene Chloride	346U	358U	346U	343U	356U	2.9U	2.9U	3.8 J	2.8U
trans-1,2-Dichloroethene	90.1U	93.2U	90.0U	89.3U	92.4U	0.74U	0.76U	0.7U	0.72U
1,1-Dichloroethane	90.1U	93.2U	90.0U	89.3U	92.4U	0.74U	0.76U	0.7U	0.72U
Carbon Disulfide	208U	215U	208U	206U	213U	1.7U	1.8U	1.6U	1.7U
2,2-Dichloropropane	166U	172U	166U	165U	171U	1.4U	1.4U	1.3U	1.3U
cis-1,2-dichloroethene	97.0U	100U	96.9U	96.2U	99.5U	0.8U	0.82U	0.75U	0.77U
Bromochloromethane	114U	118U	114U	113U	117U	0.94U	0.96U	0.88U	0.9U
Chloroform	111U	115U	111U	110U	114U	0.92U	0.94U	0.86U	0.88U
1,1,1-Trichloroethane	70.7U	73.1U	70.6U	70.1U	72.5U	0.58U	0.60U	0.55U	0.56U
1,1-Dichloropropene	139U	143U	138U	137U	142U	1.1U	1.2U	1.1U	1.1U
Carbon Tetrachloride	136U	140U	136U	135U	139U	1.1U	1.2U	1.1U	1.1U
Benzene	72.1U	74.5U	72.0U	71.4U	73.9U	0.6U	0.61U	0.56U	0.57U
1,2-Dichloroethane	112U	116U	112U	111U	115U	0.93U	0.95U	0.87U	0.89U
Trichloroethene	152U	158U	152U	151U	156U	1.3U	1.3U	1.2U	1.2U
1,2-Dichloropropane	152U	158U	152U	151U	156U	1.3U	1.3U	1.2U	1.2U
Bromodichloromethane	91.5U	94.6U	91.4U	90.7U	93.9U	0.76U	0.78U	0.71U	0.73U
Dibromomethane	133U	138U	133U	132U	137U	1.1U	1.1U	1U	1.1U
cis-1,3-Dichloropropene	134U	139U	134U	133U	138U	1.1U	1.1U	1U	1.1U
Toluene	111U	4370	4190	298 J	2290	0.92U	17.4	0.86U	0.88U
trans-1,3-Dichloropropene	81.8U	84.6U	81.7U	81.0U	83.9U	0.68U	0.69U	0.63U	0.65U
1,1,2-Trichloroethane	112U	116U	112U	111U	115U	0.93U	0.95U	0.87U	0.89U
1,2-Dibromoethane	122U	126U	122U	121U	125U	1U	1U	0.94U	0.97U
Tetrachloroethene	108U	112U	108U	107U	111U	0.89U	0.92U	0.84U	0.86U
1,3-Dichloropropane	119U	123U	119U	118U	122U	0.99U	1U	0.92U	0.95U
Dibromochloromethane	80.4U	83.1U	80.3U	79.7U	82.5U	0.66U	0.68U	0.62U	0.64U
Chlorobenzene	79.0U	81.7U	78.9U	78.3U	81.1U	0.65U	0.67U	0.61U	0.63U
1,1,1,2-Tetrachloroethane	67.9U	70.2U	67.8U	67.3U	69.7U	0.56U	0.58U	0.53U	0.54U
Ethylbenzene	1780	7230	6450	993	2100	0.8U	34.6	0.75U	0.77U
m & p-Xylene	4130	24200	34100	14700	29900	1.1U	166	1.1U	1.1U
o-Xylene	367J	12800	18900	9780	17400	0.53U	81.1	0.49U	0.51U
Styrene	83.1U	86.0U	83.1U	82.4U	85.3U	0.69U	0.71U	0.64U	0.66U
2-Hexanone	596U	616U	595U	591U	611U	4.9U	5.1U	4.6U	4.7U
Bromoform	166U	172U	166U	165U	171U	1.4U	1.4U	1.3U	1.3U
Isopropylbenzene	1430	1780	1940	970	1800	0.76U	16.6	0.71U	0.73U
1,1,2,2-Tetrachloroethane	305U	315U	305U	302U	313U	2.5U	2.6U	2.4U	2.4U

Table 1 (continued)
Summary of Soil Analytical Results
for Soil Boring 01

Analytes	SB01-0103	SB01-0119	SB01-0127	SB01-0138	SB01-0142	SB01-0155	SB01-0165	SB01-0173	SB01-0180
Bromobenzene	130U	135U	130U	129U	134U	1.1U	1.1U	1U	1U
1,2,3-Trichloropropane	277U	287U	277U	275U	284U	2.3U	2.4U	2.1U	2.2U
n-Propylbenzene	3320	3190	4450	2020	3640	0.66U	29.3	0.62U	0.64U
2-Chlorotoluene	108U	112U	108U	107U	111U	0.89U	0.92U	0.84U	0.86U
4-Chlorotoluene	111U	115U	111U	110U	114U	0.92U	0.94U	0.86U	0.88U
1,3,5-Trimethylbenzene	9250	11200	15500	7670	12700	2.9 J	92.6	0.54U	0.55U
tert-Butylbenzene	74.8U	77.4U	74.8U	74.2U	76.8U	0.62U	0.64U	0.58U	0.59U
1,2,4-Trimethylbenzene	22800	21000	41800	19500	35300	11.2	188	0.75U	0.77U
sec-Butylbenzene	87.3U	90.3U	87.2U	86.5U	89.6U	0.72U	15.6	0.68U	0.69U
p-Isopropyltoluene	7030	6280	9530	3330	5250	2.4 J	51.8	0.65U	0.67U
1,3-Dichlorobenzene	127U	132U	127U	126U	131U	1.1U	1.1U	0.99U	1U
1,4-Dichlorobenzene	139U	143U	138U	137U	142U	1.1U	1.2U	1.1U	1.1U
1,2-Dichlorobenzene	166U	172U	166U	165U	171U	1.4U	1.4U	1.3U	1.3U
n-Butylbenzene	4620	3630	138U	137U	142U	1.1U	26.2	1.1U	1.1U
1,2-Dibromo-3-Chloropropane	346U	358U	346U	343U	356U	2.9U	2.9U	2.7U	2.8U
1,2,4-Trichlorobenzene	152U	158U	152U	151U	156U	1.3U	1.3U	1.2U	1.2U
Hexachlorobutadiene	108U	112U	108U	107U	111U	0.89U	0.92U	0.84U	0.86U
Naphthalene	4830	3530	8580	3430	5510	10.7	28.0	1.8U	1.9U
1,2,3-Trichlorobenzene	180U	186U	180U	179U	185U	1.5U	1.5U	1.4U	1.4U
Acetone	1190U	2130 J	3150J	2210J	1520J	51.0 J	134	38.7 J	16.9 J
2-Butanone	1090U	1130U	1090U	1080U	1120U	9.0U	89.8	8.4U	8.7U
4-Methyl-2-Pentanone	499U	516U	498U	495U	512U	4.1U	4.2U	3.9U	4U
BNAs (Method 8270)	***Concentration (µg/kg)***								
Phenol	95.3U	247U	47.6U	47.3U	48.9U	49.3U	50.6U	46.1U	47.4U
Bis(-2-Chloroethyl)Ether	90.9U	235U	45.4U	45.1U	46.6U	47.0U	48.2U	44.0U	45.2U
2-Chlorophenol	93.1U	241U	46.5U	46.2U	47.8U	48.1U	49.4U	45.1U	46.3U
1,3-Dichlorobenzene	99.8U	258U	49.8U	49.5U	51.2U	51.5U	52.9U	48.3U	49.6U
1,4-Dichlorobenzene	93.1U	241U	46.5U	46.2U	47.8U	48.1U	49.4U	45.1U	46.3U
Benzyl Alcohol	88.7U	229U	44.3U	44.0U	45.5U	45.8U	47.1U	42.9U	44.1U
1,2-Dichlorobenzene	122U	315U	60.9U	60.4U	62.6U	63.0U	64.7U	59.0U	60.6U
2-Methylphenol	99.8U	258U	49.8U	49.5U	51.2U	51.5U	52.9U	48.3U	49.6U
Bis(2-Chloroisopropyl)Ether	109U	281U	54.3U	53.8U	55.7U	56.1U	57.6U	52.6U	54.0U
4-Methylphenol	95.3U	711 J	47.6U	47.3U	48.9U	49.3U	50.6U	46.1U	47.4U
N-Nitroso-Di-N-Propylamine	102U	264U	50.9U	50.5U	52.3U	52.7U	54.1U	49.4U	50.7U
Hexachloroethane	109U	281U	54.3U	53.8U	55.7U	56.1U	57.6U	52.6U	54.0U
Nitrobenzene	77.6U	201U	38.8U	38.5U	39.8U	40.1U	41.2U	37.6U	38.5U
Isophorone	62.1U	161U	31.0U	30.8U	31.9U	32.1U	32.9U	30.0U	30.8U
2-Nitrophenol	86.5U	224U	43.2U	42.9U	44.4U	44.7U	45.9U	41.8U	43.0U
2,4-Dimethylphenol	73.2U	189U	36.5U	36.3U	37.5U	37.8U	38.8U	35.4U	36.3U
Benzoic Acid	182U	470U	90.8U	90.1U	93.3U	214 J	96.5U	205 J	193 J
Bis(-2-Chloroethoxy)Methane	84.3U	218U	42.1U	41.8U	43.2U	43.5U	44.7U	40.8U	41.9U
2,4-Dichlorophenol	97.6U	252U	48.7U	48.4U	50.1U	50.4U	51.8U	47.2U	48.5U
1,2,4-Trichlorobenzene	84.3U	218U	42.1U	41.8U	43.2U	43.5U	44.7U	40.8U	41.9U

Table 1 (continued)
Summary of Soil Analytical Results
for Soil Boring 01

Analytes	SB01-0103	SB01-0119	SB01-0127	SB01-0138	SB01-0142	SB01-0155	SB01-0165	SB01-0173	SB01-0180
Naphthalene	2200	3800	586	2400	2390	43.5U	44.7U	40.8U	41.9U
4-Chloroaniline	306U	791U	153U	152U	157U	158U	162U	148U	152U
Hexachlorobutadiene	90.9U	235U	45.4U	45.1U	46.6U	47.0U	48.2U	44.0U	45.2U
4-Chloro-3-Methylphenol	79.8U	206U	39.9U	39.6U	41.0U	41.2U	42.4U	38.6U	39.6U
2-Methylnaphthalene	4860	11700	3500	9650	8610	104 J	139 J	38.6U	39.6U
Hexachlorocyclopentadiene	75.4U	195U	37.7U	37.4U	38.7U	38.9U	40.0U	36.5U	37.4U
2,4,6-Trichlorophenol	73.2U	189U	36.5U	36.3U	37.5U	37.8U	38.8U	35.4U	36.3U
2,4,5-Trichlorophenol	82.0U	212U	41.0U	40.7U	42.1U	42.4U	43.5U	39.7U	40.7U
2-Chloronaphthalene	77.6U	201U	38.8U	38.5U	39.8U	40.1U	41.2U	37.6U	38.5U
2-Nitroaniline	57.6U	149U	28.8U	28.6U	29.6U	29.8U	30.6U	27.9U	28.6U
Dimethyl Phthalate	68.7U	178U	34.3U	34.1U	35.3U	35.5U	36.5U	33.3U	34.1U
Acenaphthylene	86.5U	224U	43.2U	42.9U	44.4U	44.7U	45.9U	41.8U	43.0U
2,6-Dinitrotoluene	71.0U	183U	35.4U	35.2U	36.4U	36.7U	37.6U	34.3U	35.2U
3-Nitroaniline	173U	447U	86.4U	85.7U	88.7U	89.3U	91.8U	83.7U	85.9U
Acenaphthene	71.0U	183U	35.4U	35.2U	36.4U	36.7U	37.6U	34.3U	35.2U
2,4-Dinitrophenol	66.5U	172U	33.2U	33.0U	34.1U	34.4U	35.3U	32.2U	33.0U
4-Nitrophenol	104U	269U	52.0U	51.6U	53.5U	53.8U	55.3U	50.4U	51.8U
Dibenzofuran	143 J	366 J	37.7U	37.4U	38.7U	38.9U	40.0U	36.5U	37.4U
2,4-Dinitrotoluene	66.5U	172U	33.2U	33.0U	34.1U	34.4U	35.3U	32.2U	33.0U
Diethylphthalate	79.8U	206U	39.9U	39.6U	41.0U	41.2U	42.4U	38.6U	39.6U
4-Chlorophenyl-Phenylether	75.4U	195U	37.7U	37.4U	38.7U	38.9U	40.0U	36.5U	37.4U
Fluorene	88.6 J	238 J	38.8U	38.5U	39.8U	40.1U	41.2U	37.6U	38.5U
4-Nitroaniline	131U	338U	65.3U	64.8U	67.1U	67.6U	69.4U	63.3U	65.0U
4,6-Dinitro-2-Methylphenol	102U	264U	50.9U	50.5U	52.3U	52.7U	54.1U	49.4U	50.7U
N-Nitrosodiphenylamine	86.5U	224U	43.2U	42.9U	44.4U	44.7U	45.9U	41.8U	43.0U
4-Bromophenyl-Phenylether	77.6U	201U	38.8U	38.5U	39.8U	40.1U	41.2U	37.6U	38.5U
Phenanthrene	138 J	172U	33.2U	33.0U	34.1U	34.4U	35.3U	32.2U	33.0U
Hexachlorobenzene	68.7U	178U	34.3U	34.1U	35.3U	35.5U	36.5U	33.3U	34.1U
Pentachlorophenol	124U	321U	62.0U	61.5U	63.7U	64.1U	65.9U	60.1U	61.7U
Anthracene	64.3U	166U	32.1U	31.9U	33.0U	33.2U	34.1U	31.1U	31.9U
Di-N-Butylphthalate	48.8U	126U	24.4U	24.2U	25.0U	25.2U	604	164 J	466
Fluoranthene	175 J	161U	31.0U	30.8U	31.9U	32.1U	32.9U	30.0U	30.8U
Pyrene	173 J	161U	31.0U	30.8U	31.9U	32.1U	32.9U	30.0U	30.8U
Butylbenzylphthalate	66.5U	172U	33.2U	33.0U	34.1U	34.4U	41.5 J	73.5 J	57.7 J
3,3'-Dichlorobenzidine	523U	1350U	261U	259U	268U	270U	278U	253U	260U
Benzo(a)Anthracene	59.9 J	138U	26.6U	26.4U	27.3U	27.5U	28.2U	25.8U	26.4U
Chrysene	66.0 J	143U	27.7U	27.5U	28.4U	28.6U	29.4U	26.8U	27.5U
Bis(2-Ethylhexyl)Phthalate	68.7U	274 J	57.6 J	56.8 J	80.1 J	35.5U	36.5U	33.3U	34.1U
Di-N-Octyl Phthalate	62.1U	161U	31.0U	30.8U	31.9U	32.1U	32.9U	30.0U	30.8U
Benzo(b)Fluoranthene	118U	304U	58.7U	58.2U	60.3U	60.7U	62.4U	56.9U	58.4U
Benzo(k)Fluoranthene	146U	378U	73.1U	72.5U	75.1U	75.6U	77.6U	70.8U	72.7U
Benzo(a)Pyrene	64.3U	166U	32.1U	31.9U	33.0U	33.2U	34.1U	31.9U	31.9U
Indeno(1,2,3-cd)Pyrene	73.2U	189U	36.5U	36.3U	37.5U	37.8U	38.8U	35.4U	36.3U

Table 1 (continued)
Summary of Soil Analytical Results
for Soil Boring 01

Analytes	SB01-0103	SB01-0119	SB01-0127	SB01-0138	SB01-0142	SB01-0155	SB01-0165	SB01-0173	SB01-0180
Dibenzo(a,h)Anthracene	68.7U	178U	34.3U	34.1U	35.3U	35.5U	36.5U	33.3U	34.1U
Inorganics	***Concentrations (mg/kg)***								
Aluminum	6370	6510	4640	3840	3960	3470	2900	2310	1960
Antimony	5.6 J	4.8 J	4.7 J	3.6 J	3.4 J	3.7 J	3.6 J	2.4 J	2.2UJ
Arsenic	1.5	1.8	1.3	0.99	1.4	0.97	1	0.74	0.66
Barium	55.0	221	102	68.6	303	53.6	88.4	15.3	20.0
Beryllium	0.37	0.39	0.27	0.21	0.21	0.19	0.17	0.16	0.13
Cadmium	0.55U	0.57U	0.55U	0.55U	0.57U	0.57U	0.59U	0.54U	0.55U
Calcium	3540	169000	109000	113000	70300	46800	90100	21200	3330
Chromium	6.7	7.5	6.4	5.1	4.2	5	6.4	3.0	3.5
Cobalt	2.4	2.4	1.8	1.5	1.9	1.6	1.6	1.2	1.2
Copper	14.6 J	2.1 J	1.8 J	1.1UJ	1.1UJ	1.1UJ	1.2UJ	1.1UJ	1.1UJ
Iron	6260	4800	3530	2840	3300	3490	3120	2570	2500
Lead	6.2	4	2.5	1.9	2.5	2.4	1.9	2.1	1.9
Magnesium	888	5520	2760	4300	3290	3620	3810	2380	2310
Manganese	115 J	55.1 J	39.7 J	29.6 J	31.5 J	39.2 J	34.7 J	39.3 J	23.9 J
Mercury	0.089U	0.092U	0.089U	0.088U	0.091U	0.092U	0.094U	0.086U	0.088U
Nickel	28.3 J	5 J	3.4 J	2.8 J	3.3 J	2.3UJ	2.5 J	2.1UJ	2.2UJ
Potassium	968	1700	1010	587	758	766	509	434	383
Selenium	0.055U	0.057U	0.055U	0.055U	0.057U	0.057U	0.059U	0.054U	0.055U
Silver	0.55U	0.57U	0.55U	0.55U	0.57U	0.57U	0.59U	0.54U	0.55U
Sodium	163	269	150	151	132	162	140	73.1	81.7
Thallium	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.12U	0.11U	0.11U
Vanadium	11.4	12.4	9.3	15.8	14.1	9	10.2	8.5	7.8
Zinc	20.6	27.6	26.5	10.1	11.0	15.0	7.3	11.3	9.2
Cyanide, Total	0.56U	0.57U	0.56U	0.55U	0.57U	0.57U	0.58U	0.54U	0.55U
Petroleum Hydrocarbons	1940	5560	5120	1600	1990	63.2	141	16.1	17.6
	(%)								
Solids, Total	90.2	87.2	90.3	91.0	87.9	87.3	85	93.2	90.8

Note:
- B = Analyte found in blank as well as in sample.
- U = Not Detected (Preceding value is the Method Detection Limit).
- J = Indicates an estimated value.
- UJ = The Analyte was not detected above the Method Detection Limit, but the Method Detection Limit is an Approximate value.

Table 2
Summary of Soil Analytical Results
for Soil Borings 02-04

Analytes	SB02-0101	SB02-0109	SB02-0119	SB03-0101	SB03-0109	SB03-0119	SB04-0101	SB04-0109	SB04-0119
VOAs (Method 8260A)	***Concentration (µg/kg)***								
Dichlorodifluoromethane	2.5U	2.4U	2.3U	2.3U	2.4U	2.4U	2.4U	2.4U	2.4U
Chloromethane	1.8U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
Vinyl Chloride	1.5U	1.5U	1.5U	1.4U	1.5U	1.5U	1.5U	1.5U	1.5U
Bromomethane	0.92U	0.88U	0.88U	0.88U	0.89U	0.89U	0.89U	0.91U	0.9U
Chloroethane	1.8U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
Trichlorofluoromethane	2.8U	2.7U	2.7U	2.7U	2.7U	2.7U	2.7U	2.8U	2.7U
1,1-Dichloroethene	1.5U	1.5U	1.5U	1.4U	1.5U	1.5U	1.5U	1.5U	1.5U
Methylene Chloride	2.9U	2.8U	2.8U	2.8U	2.8U	2.8U	2.8U	2.9U	2.9U
trans-1,2-Dichloroethene	0.76U	0.73U	0.73U	0.72U	0.73U	0.73U	0.74U	0.75U	0.74U
1,1-Dichloroethane	0.76U	0.73U	0.73U	0.72U	0.73U	0.73U	0.74U	0.75U	0.74U
Carbon Disulfide	1.8U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U
2,2-Dichloropropane	1.4U	1.3U	1.3U	1.3U	1.4U	1.3U	1.4U	1.4U	1.4U
cis-1,2-dichloroethene	0.82U	0.78U	0.78U	0.78U	0.79U	0.79U	0.79U	0.8U	0.8U
Bromochloromethane	0.96U	0.92U	0.92U	0.91U	0.93U	0.92U	0.93U	0.94U	0.94U
Chloroform	0.93U	0.9U	0.89U	0.89U	0.9U	0.90U	0.91U	0.92U	0.92U
1,1,1-Trichloroethane	0.6U	0.57U	0.57U	0.57U	0.58U	0.57U	0.58U	0.59U	0.58U
1,1-Dichloropropene	1.2U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Carbon Tetrachloride	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Benzene	0.61U	0.58U	0.58U	0.58U	0.59U	0.58U	0.59U	0.6U	0.6U
1,2-Dichloroethane	0.95U	0.91U	0.9U	0.9U	0.92U	0.91U	0.92U	0.93U	0.93U
Trichloroethene	1.3U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.3U	1.3U
1,2-Dichloropropane	1.3U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.3U	1.3U
Bromodichloromethane	0.77U	0.74U	0.74U	0.73U	0.75U	0.74U	0.75U	0.76U	0.76U
Dibromomethane	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
cis-1,3-Dichloropropene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Toluene	0.93U	0.9U	0.89U	0.89U	0.9U	0.90U	0.91U	0.92U	0.92U
trans-1,3-Dichloropropene	0.69U	0.66U	0.66U	0.65U	0.67U	0.66U	0.67U	0.68U	0.68U
1,1,2-Trichloroethane	0.95U	0.91U	0.9U	0.9U	0.92U	0.91U	0.92U	0.93U	0.93U
1,2-Dibromoethane	1U	0.99U	0.98U	0.98U	0.99U	0.99U	1U	1U	1U
Tetrachloroethene	0.91U	0.87U	0.87U	0.86U	0.88U	0.88U	0.88U	0.9U	0.89U
1,3-Dichloropropane	1.0U	0.96U	0.96U	0.95U	0.97U	0.97U	0.97U	0.99U	0.99U
Dibromochloromethane	0.68U	0.65U	0.65U	0.64U	0.66U	0.65U	0.66U	0.67U	0.66U
Chlorobenzene	0.67U	0.64U	0.64U	0.63U	0.64U	0.64U	0.65U	0.66U	0.65U
1,1,1,2-Tetrachloroethane	0.57U	0.55U	0.55U	0.54U	0.55U	0.55U	0.55U	0.56U	0.56U
Ethylbenzene	0.82U	0.78U	0.78U	0.78U	0.79U	0.79U	0.79U	0.8U	0.8U
m & p-Xylene	1.2U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
o-Xylene	0.54U	0.52U	0.51U	0.51U	0.52U	0.52U	0.52U	0.53U	0.53U
Styrene	0.70U	0.67U	0.67U	0.67U	0.68U	0.67U	0.68U	0.69U	0.69U
2-Hexanone	5U	4.8U	4.8U	4.8U	4.9U	4.8U	4.9U	4.9U	4.9U

Table 2 (continued)
Summary of Soil Analytical Results
for Soil Borings 02-04

Analytes	SB02-0101	SB02-0109	SB02-0119	SB03-0101	SB03-0109	SB03-0119	SB04-0101	SB04-0109	SB04-0119
Bromoform	1.4U	1.3U	1.3U	1.3U	1.4U	1.3U	1.4U	1.4U	1.4U
Isopropylbenzene	0.77U	0.74U	0.74U	0.73U	0.75U	0.74U	0.75U	0.76U	0.76U
1,1,2,2-Tetrachloroethane	2.6U	2.5U	2.5U	2.4U	2.5U	2.5U	2.5U	2.5U	2.5U
Bromobenzene	1.1U	1.1U	1U	1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2,3-Trichloropropane	2.3U	2.2U	2.2U	2.2U	2.3U	2.2U	2.3U	2.3U	2.3U
n-Propylbenzene	0.68U	0.65U	0.65U	0.64U	0.66U	0.65U	0.66U	0.67U	0.66U
2-Chlorotoluene	0.91U	0.87U	0.87U	0.86U	0.88U	0.88U	0.88U	0.9U	0.89U
4-Chlorotoluene	0.93U	0.9U	0.89U	0.89U	0.9U	0.90U	0.91U	0.92U	0.92U
1,3,5-Trimethylbenzene	0.58U	0.56U	0.56U	0.55U	0.56U	0.56U	0.57U	0.57U	0.57U
tert-Butylbenzene	0.63U	0.6U	0.6U	0.6U	0.61U	0.61U	0.61U	0.62U	0.62U
1,2,4-Trimethylbenzene	0.82U	0.81 J	0.78U	0.78U	0.79U	0.79U	0.79U	0.8U	0.8U
sec-Butylbenzene	0.74U	0.71U	0.7U	0.7U	0.71U	0.71U	0.71U	0.72U	0.72U
p-Isopropyltoluene	0.71U	0.68U	0.68U	0.68U	0.69U	0.69U	0.69U	0.7U	0.7U
1,3-Dichlorobenzene	1.1U	1U	1U	1U	1U	1U	1U	1.1U	1.1U
1,4-Dichlorobenzene	1.2U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dichlorobenzene	1.4U	1.3U	1.3U	1.3U	1.4U	1.3U	1.4U	1.4U	1.4U
n-Butylbenzene	1.2U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dibromo-3-Chloropropane	2.9U	2.8U	2.8U	2.8U	2.8U	2.8U	2.8U	2.9U	2.9U
1,2,4-Trichlorobenzene	1.3U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.3U	1.3U
Hexachlorobutadiene	0.91U	0.87U	0.87U	0.86U	0.88U	0.88U	0.88U	0.9U	0.89U
Naphthalene	2U	2.7 J	1.9U	1.9U	1.9U	1.9U	1.9U	2U	1.9U
1,2,3-Trichlorobenzene	1.5U	1.5U	1.5U	1.4U	1.5U	1.5U	1.5U	1.5U	1.5U
Acetone	10.0U	9.6U	9.6U	11.3 J	15.5 J	11.7 J	31.0 J	63	35.4 J
2-Butanone	9.2U	8.8U	8.8U	8.7U	8.9U	8.8U	8.9U	9U	9.0U
4-Methyl-2-Pentanone	4.2U	4U	4U	4U	4.1U	4U	4.1U	4.1U	4.1U
BNAs (Method 8270)	***Concentration (µg/kg)***								
Phenol	50.2U	48.2U	48.0U	47.7U	48.6U	48.4U	48.7U	49.4U	49.3U
Bis(-2-Chloroethyl)Ether	47.8U	45.9U	45.8U	45.5U	46.3U	46.1U	46.4U	47.1U	47.0U
2-Chlorophenol	49.0U	47.0U	46.9U	46.6U	47.5U	47.2U	47.6U	48.3U	48.1U
1,3-Dichlorobenzene	52.5U	50.4U	50.2U	49.9U	50.8U	50.6U	51.0U	51.7U	51.5U
1,4-Dichlorobenzene	49.0U	47.0U	46.9U	46.6U	47.5U	47.2U	47.6U	48.3U	48.1U
Benzyl Alcohol	46.7U	44.8U	44.6U	44.3U	45.2U	45.0U	45.3U	46.0U	45.8U
1,2-Dichlorobenzene	64.2U	61.6U	61.4U	61.0U	62.1U	61.9U	62.3U	63.2U	63.0U
2-Methylphenol	52.5U	50.4U	50.2U	49.9U	50.8U	50.6U	51.0U	51.7U	51.5U
Bis(2-Chloroisopropyl)Ether	57.2U	54.9U	54.7U	54.3U	55.4U	55.1U	55.5U	56.3U	56.1U
4-Methylphenol	50.2U	48.2U	48.0U	47.7U	48.6U	48.4U	48.7U	49.4U	49.3U
N-Nitroso-Di-N-Propylamine	53.7U	51.5U	51.3U	51.0U	52.0U	51.7U	52.1U	52.9U	52.7U
Hexachloroethane	57.2U	54.9U	54.7U	54.3U	55.4U	55.1U	55.5U	56.3U	56.1U
Nitrobenzene	40.8U	39.2U	39.1U	38.8U	39.5U	39.4U	39.6U	40.2U	40.1U
Isophorone	32.7U	31.4U	31.3U	31.0U	31.6U	31.5U	31.7U	32.2U	32.1U
2-Nitrophenol	45.5U	43.7U	43.5U	43.2U	44.1U	43.9U	44.2U	44.8U	44.7U
2,4-Dimethylphenol	38.5U	37.0U	36.8U	36.6U	37.3U	37.1U	37.4U	37.9U	37.8U

Table 2 (continued)
Summary of Soil Analytical Results
for Soil Borings 02-04

Analytes	SB02-0101	SB02-0109	SB02-0119	SB03-0101	SB03-0109	SB03-0119	SB04-0101	SB04-0109	SB04-0119
Benzoic Acid	95.7U	91.8U	91.5U	90.9U	92.7U	92.2U	92.9U	94.3U	93.9U
Bis(-2-Chloroethoxy)Methane	44.3U	42.6U	42.4U	42.1U	42.9U	42.7U	43.0U	43.7U	43.5U
2,4-Dichlorophenol	51.3U	49.3U	49.1U	48.8U	49.7U	49.5U	49.8U	50.6U	50.4U
1,2,4-Trichlorobenzene	44.3U	42.6U	42.4U	42.1U	42.9U	42.7U	43.0U	43.7U	43.5U
Naphthalene	44.3U	42.6U	42.4U	42.1U	42.9U	42.7U	43.0U	43.7U	43.5U
4-Chloroaniline	161U	155U	154U	153U	156U	155U	156U	159U	158U
Hexachlorobutadiene	47.8U	45.9U	45.8U	45.5U	46.3U	46.1U	46.4U	47.1U	47.0U
4-Chloro-3-Methylphenol	42.0U	40.3U	40.2U	39.9U	40.7U	40.5U	40.8U	41.4U	41.2U
2-Methylnaphthalene	42.0U	40.3U	40.2U	39.9U	40.7U	40.5U	40.8U	41.4U	41.2U
Hexachlorocyclopentadiene	39.7U	38.1U	37.9U	37.7U	38.4U	38.2U	38.5U	39.1U	38.9U
2,4,6-Trichlorophenol	38.5U	37.0U	36.8U	36.6U	37.3U	37.1U	37.4U	37.9U	37.8U
2,4,5-Trichlorophenol	43.2U	41.4U	41.3U	41.0U	41.8U	41.6U	41.9U	42.5U	42.4U
2-Chloronaphthalene	40.8U	39.2U	39.1U	38.8U	39.5U	39.4U	39.6U	40.2U	40.1U
2-Nitroaniline	30.3U	29.1U	29.0U	28.8U	29.4U	29.2U	29.4U	29.9U	29.8U
Dimethyl Phthalate	36.2U	34.7U	34.6U	34.4U	35.0U	34.9U	35.1U	35.6U	35.5U
Acenaphthylene	45.5U	43.7U	43.5U	43.2U	44.1U	43.9U	44.2U	44.8U	44.7U
2,6-Dinitrotoluene	37.3U	35.8U	35.7U	35.5U	36.2U	36.0U	36.2U	36.8U	36.7U
3-Nitroaniline	91.0U	87.3U	87.1U	86.5U	88.1U	87.7U	88.3U	89.7U	89.3U
Acenaphthene	37.3U	35.8U	35.7U	35.5U	36.2U	36.0U	36.2U	36.8U	36.7U
2,4-Dinitrophenol	35.0U	33.6U	33.5U	33.3U	33.9U	33.7U	34.0U	34.5U	34.4U
4-Nitrophenol	54.8U	52.6U	52.5U	52.1U	53.1U	52.9U	53.2U	54.0U	53.8U
Dibenzofuran	39.7U	38.1U	37.9U	37.7U	38.4U	38.2U	38.5U	39.1U	38.9U
2,4-Dinitrotoluene	35.0U	33.6U	33.5U	33.3U	33.9U	33.7U	34.0U	34.5U	34.4U
Diethylphthalate	42.0U	40.3U	40.2U	39.9U	40.7U	40.5U	40.8U	41.4U	41.2U
4-Chlorophenyl-Phenylether	39.7U	38.1U	37.9U	37.7U	38.4U	38.2U	38.5U	39.1U	38.9U
Fluorene	40.8U	39.2U	39.1U	38.8U	39.5U	39.4U	39.6U	40.2U	40.1U
4-Nitroaniline	68.8U	66.1U	65.8U	65.4U	66.7U	66.4U	66.8U	67.8U	67.6U
4,6-Dinitro-2-Methylphenol	53.7U	51.5U	51.3U	51.0U	52.0U	51.7U	52.1U	52.9U	52.7U
N-Nitrosodiphenylamine	45.5U	43.7U	43.5U	43.2U	44.1U	43.9U	44.2U	44.8U	44.7U
4-Bromophenyl-Phenylether	40.8U	39.2U	39.1U	38.8U	39.5U	39.4U	39.6U	40.2U	40.1U
Phenanthrene	35.0U	33.6U	33.5U	33.3U	33.9U	33.7U	34.0U	34.5U	34.4U
Hexachlorobenzene	36.2U	34.7U	34.6U	34.4U	35.0U	34.9U	35.1U	35.6U	35.5U
Pentachlorophenol	65.3U	62.7U	62.5U	62.1U	63.3U	63.0U	63.4U	64.4U	64.1U
Anthracene	33.8U	32.5U	32.4U	32.2U	32.8U	32.6U	32.8U	33.3U	33.2U
Di-N-Butylphthalate	25.7U	24.6U	24.6U	608	154 J	802 B	24.9U	25.3U	25.2U
Fluoranthene	32.7U	31.4U	31.3U	31.0U	31.6U	31.5U	36.2 J	32.2U	32.1U
Pyrene	32.7U	31.4U	31.3U	31.0U	31.6U	31.5U	32.9 J	32.2U	32.1U
Butylbenzylphthalate	35.0U	33.6U	33.5U	33.3U	33.9U	33.7U	34.0U	34.5U	34.4U
3,3'-Dichlorobenzidine	275U	264U	263U	262U	267U	265U	267U	271U	270U
Benzo(a)Anthracene	28.0U	26.9U	26.8U	26.6U	27.1U	27.0U	27.2U	27.6U	27.5U
Chrysene	29.2U	28.0U	27.9U	27.7U	28.2U	28.1U	28.3U	28.7U	28.6U
Bis(2-Ethylhexyl)Phthalate	36.2U	34.7U	34.6U	34.4U	35.0U	34.9U	35.1U	35.6U	35.5U
Di-N-Octyl Phthalate	32.7U	31.4U	31.3U	31.0U	31.6U	31.5U	31.7U	32.2U	32.1U

Table 2 (continued)
Summary of Soil Analytical Results
for Soil Borings 02-04

Analytes	SB02-0101	SB02-0109	SB02-0119	SB03-0101	SB03-0109	SB03-0119	SB04-0101	SB04-0109	SB04-0119
Benzo(b)Fluoranthene	61.8U	59.4U	59.2U	58.8U	59.9U	59.6U	60.0U	60.9U	60.7U
Benzo(k)Fluoranthene	77.0U	73.9U	73.7U	73.2U	74.6U	74.2U	74.7U	75.9U	75.6U
Benzo(a)Pyrene	33.8U	32.5U	32.4U	32.2U	32.8U	32.6U	32.8U	33.3U	33.2U
Indeno(1,2,3-cd)Pyrene	38.5U	37.0U	36.8U	36.6U	37.3U	37.1U	37.4U	37.9U	37.8U
Dibenzo(a,h)Anthracene	36.2U	34.7U	34.6U	34.4U	35.0U	34.9U	35.1U	35.6U	35.5U
Inorganics	***Concentrations (mg/kg)***								
Aluminum	9990	7990	5590	5510	4370	6030	5460	4420	5710
Antimony	5.7 J	3.7 J	2.9 J	2.3 J	2.3 J	2.6 J	2.8 J	2.3UJ	4.5 J
Arsenic	2.7	1.4	1.8	1.3	1.1	1.8	1.4	1.2	2.1
Barium	95.7	67.4	241	53.6	116	342	71.8	897	79.9
Beryllium	0.64	0.51	0.42	0.42	0.34	0.47	0.43	0.33	0.44
Cadmium	0.58U	0.56U	0.56U	0.55U	0.56U	0.56U	0.57U	0.57U	0.57U
Calcium	2850	1870	52300	2170	94500	38000	7870	116000	72200
Chromium	10.6	8.9	5.7	6.2	3.8	6.3	6.9	4.4	4.8
Cobalt	4.9	3.7	2.8	2.7	2.1	2.8	3.5	3.6	3.5
Copper	6.6	5.9	3.5	4.4	2	3.2	5.9	2.6	4.9
Iron	10700	8610	5800	5690	3510	5860	6330	3880	5320
Lead	20.4	7.1	6.2	4.2	3.2	6.5	5.7	3.5	6.7
Magnesium	1530	1250	3120	990	2320	3050	1220	3170	3870
Manganese	266 J	134 J	86.8 J	77.8 J	44.3 J	38.7 J	125 J	51.9 J	109 J
Mercury	0.093U	0.09U	0.089U	0.089U	0.09U	0.090U	0.091U	0.092U	0.092U
Nickel	9.4	7.5	7.3	6.3	5	5.5	7.3	5	8
Potassium	1950	1460	1760	1140	1200	1880	1230	1120	1930
Selenium	0.29UJ	0.28UJ	0.28UJ	0.28UJ	0.28UJ	0.28UJ	0.028UJ	0.029UJ	0.029UJ
Silver	0.58U	0.56U	0.56U	0.55U	0.56U	25.1	0.57U	0.57U	0.57U
Sodium	71.5	67.6	207	51.3	78.6	84.4	104	103	270
Thallium	0.12U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U
Vanadium	21.3	17.3	20.2	12.2	9.8	22.0	14.0	11.2	19.2
Zinc	23.8	18.0	11.0	11.9	10.2	11.5	16.3	11.5	13.5
Cyanide, Total	0.54U	0.52U	0.55U	0.56U	0.57U	0.54U	0.55U	0.54U	0.57U
Petroleum Hydrocarbons	145	27.8	16.7U	24.2	16.9U	16.9U	3270	139	17.2U
	(%)								
Solids, Total	85.7	89.3	89.6	90.2	88.5	88.9	88.3	87.0	87.3

Note:
- B = Analyte found in blank as well as in sample.
- U = Not Detected (Preceding value is the Method Detection Limit).
- J = Indicates an estimated value.
- UJ = The Analyte was not detected above the Method Detection Limit, but the Method Detection Limit is an Approximate value.

Table 3
Summary of Soil Analytical Results
for Soil Borings 05-07

Analytes	SB05-0101	SB05-0109	SB05-0112	SB06-0101	SB06-0107	SB06-0117	SB07-0101	SB07-0109	SB07-0119	0101-0117
VOAs (Method 8260A)	***Concentration (µg/kg)***									
Dichlorodifluoromethane	2.3U	2.2U	2.3U	2.3U	2.4U	2.3U	2.4U	2.4U	2.4U	2.3U
Chloromethane	1.6U	1.6U	1.6U	1.6U	1.7U	1.6U	1.7U	1.7U	1.7U	1.6U
Vinyl Chloride	1.4U	1.4U	1.4U	1.4U	1.5U	1.4U	1.5U	1.5U	1.5U	1.4U
Bromomethane	0.85U	0.84U	0.86U	0.85U	0.89U	0.87U	0.91U	0.91U	0.89U	0.87U
Chloroethane	1.6U	1.6U	1.6U	1.6U	1.7U	1.6U	1.7U	1.7U	1.7U	1.6U
Trichlorofluoromethane	2.6U	2.6U	2.6U	2.6U	2.7U	2.6U	2.8U	2.8U	2.7U	2.6U
1,1-Dichloroethene	1.4U	1.4U	1.4U	1.4U	1.5U	1.4U	1.5U	1.5U	1.5U	1.4U
Methylene Chloride	2.7U	2.7U	2.7U	2.7U	2.8U	2.7U	2.9U	2.9U	2.8U	2.7U
trans-1,2-Dichloroethene	0.70U	0.69U	0.7U	0.7U	0.73U	0.71U	0.75U	0.75U	0.73U	0.71U
1,1-Dichloroethane	0.70U	0.69U	0.7U	0.7U	0.73U	0.71U	0.75U	0.75U	0.73U	0.71U
Carbon Disulfide	1.6U	1.6U	1.6U	1.6U	1.7U	1.6U	1.7U	1.7U	1.7U	1.6U
2,2-Dichloropropane	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.4U	1.4U	1.3U	1.3U
cis-1,2-dichloroethene	0.75U	0.75U	0.76U	0.76U	0.78U	0.77U	0.81U	0.81U	0.78U	0.77U
Bromochloromethane	0.88U	0.87U	0.89U	0.88U	0.92U	0.90U	0.94U	0.95U	0.92U	0.9U
Chloroform	0.86U	0.85U	0.87U	0.86U	0.9U	0.88U	0.92U	0.92U	0.9U	0.88U
1,1,1-Trichloroethane	0.55U	0.54U	0.55U	0.55U	0.57U	0.56U	0.59U	0.59U	0.57U	0.56U
1,1-Dichloropropene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.2U	1.2U	1.1U	1.1U
Carbon Tetrachloride	1.1U	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Benzene	0.56U	0.55U	0.56U	0.56U	0.58U	0.57U	0.6U	0.6U	0.58U	0.57U
1,2-Dichloroethane	0.87U	0.86U	0.88U	0.87U	0.91U	0.89U	0.93U	0.94U	0.91U	0.89U
Trichloroethene	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.3U	1.3U	1.2U	1.2U
1,2-Dichloropropane	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.3U	1.3U	1.2U	1.2U
Bromodichloromethane	0.71U	0.7U	0.72U	0.71U	0.74U	0.72U	0.76U	0.76U	0.74U	0.72U
Dibromomethane	1U	1U	1U	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
cis-1,3-Dichloropropene	1U	1U	1.1U	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Toluene	0.86U	0.85U	0.87U	0.86U	0.93 J	0.88U	1.0 J	0.92U	0.9U	0.88U
trans-1,3-Dichloropropene	0.64U	0.63U	0.64U	0.64U	0.66U	0.65U	0.68U	0.68U	0.66U	0.65U
1,1,2-Trichloroethane	0.87U	0.86U	0.88U	0.87U	0.91U	0.89U	0.93U	0.94U	0.91U	0.89U
1,2-Dibromoethane	0.95U	0.94U	0.95U	0.95U	0.99U	0.97U	1U	1U	0.99U	0.96U
Tetrachloroethene	0.84U	0.83U	0.85U	0.84U	0.87U	0.86U	0.9U	0.9U	0.87U	0.86U
1,3-Dichloropropane	0.93U	0.92U	0.93U	0.93U	0.96U	0.94U	0.99U	0.99U	0.96U	0.94U
Dibromochloromethane	0.62U	0.62U	0.63U	0.63U	0.65U	0.64U	0.67U	0.67U	0.65U	0.64U
Chlorobenzene	0.61U	0.61U	0.62U	0.61U	0.64U	0.63U	0.66U	0.66U	0.64U	0.63U
1,1,1,2-Tetrachloroethane	0.53U	0.52U	0.53U	0.53U	0.55U	0.54U	0.56U	0.57U	0.55U	0.54U
Ethylbenzene	0.75U	0.75U	0.76U	0.76U	0.78U	0.77U	0.81U	0.81U	0.78U	0.77U
m & p-Xylene	1.1U	1.1U	1.1U	1.1U	1.4 J	1.3 J	1.3 J	1.2U	1.1U	1.1U
o-Xylene	0.5U	0.49U	0.5U	0.5U	0.52U	0.5U	0.53U	0.53U	0.52U	0.5U
Styrene	0.65U	0.64U	0.65U	0.65U	0.67U	0.66U	0.69U	0.69U	0.67U	0.66U
2-Hexanone	4.6U	4.6U	4.7U	4.6U	4.8U	4.7U	4.9U	5U	4.8U	4.7U
Bromoform	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.4U	1.4U	1.3U	1.3U
Isopropylbenzene	0.71U	0.7U	0.72U	0.71U	0.74U	0.72U	0.76U	0.76U	0.74U	0.72U

Table 3 (Continued)
Summary of Soil Analytical Results
for Soil Borings 05-07

Analytes	SB05-0101	SB05-0109	SB05-0112	SB06-0101	SB06-0107	SB06-0117	SB07-0101	SB07-0109	SB07-0119	0101-0117
1,1,2,2-Tetrachloroethane	2.4U	2.3U	2.4U	2.4U	2.5U	2.4U	2.5U	2.5U	2.5U	2.4U
Bromobenzene	1U	1.0U	1U	1U	1.1U	1U	1.1U	1.1U	1.1U	1U
1,2,3-Trichloropropane	2.2U	2.1U	2.2U	2.2U	2.2U	2.2U	2.3U	2.3U	2.2U	2.2U
n-Propylbenzene	0.62U	0.62U	0.63U	0.63U	0.65U	0.64U	0.67U	0.67U	0.65U	0.64U
2-Chlorotoluene	0.84U	0.83U	0.85U	0.84U	0.87U	0.86U	0.9U	0.9U	0.87U	0.86U
4-Chlorotoluene	0.86U	0.85U	0.87U	0.86U	0.9U	0.88U	0.92U	0.92U	0.9U	0.88U
1,3,5-Trimethylbenzene	0.54U	0.53U	0.54U	0.54U	0.56U	0.55U	0.58U	0.58U	0.56U	0.55U
tert-Butylbenzene	0.58U	0.58U	0.59U	0.58U	0.61U	0.59U	0.62U	0.62U	0.61U	0.59U
1,2,4-Trimethylbenzene	0.75U	0.75U	0.76U	0.76U	0.78U	0.77U	0.81U	0.81U	0.78U	0.77U
sec-Butylbenzene	0.68U	0.67U	0.68U	0.68U	0.71U	0.69U	0.72U	0.73U	0.71U	0.69U
p-Isopropyltoluene	0.66U	0.65U	0.66U	0.66U	0.68U	0.67U	0.7U	0.71U	0.68U	0.67U
1,3-Dichlorobenzene	0.99U	0.98U	1U	0.99U	1U	1U	1.1U	1.1U	1U	1U
1,4-Dichlorobenzene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.2U	1.2U	1.1U	1.1U
1,2-Dichlorobenzene	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.4U	1.4U	1.3U	1.3U
n-Butylbenzene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.2U	1.2U	1.1U	1.1U
1,2-Dibromo-3-Chloropropane	2.7U	2.7U	2.7U	2.7U	2.8U	2.7U	2.9U	2.9U	2.8U	2.7U
1,2,4-Trichlorobenzene	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.3U	1.3U	1.2U	1.2U
Hexachlorobutadiene	0.84U	0.83U	0.85U	0.84U	0.87U	0.86U	0.9U	0.9U	0.87U	0.86U
Naphthalene	1.8U	1.8U	1.8U	1.8U	1.9U	1.9U	2U	2U	1.9U	1.9U
1,2,3-Trichlorobenzene	1.4U	1.4U	1.4U	1.4U	1.5U	1.4U	1.5U	1.5U	1.5U	1.4U
Acetone	14.0 J	15.7 J	12.6 J	11.9 J	45.8 J	17.0 J	31.8 J	31.2 J	38.9 J	14.1 J
2-Butanone	8.5U	8.4U	8.5U	8.5U	15.2 J	8.6U	9U	9.1U	8.8U	8.6U
4-Methyl-2-Pentanone	3.9U	3.8U	3.9U	3.9U	4U	4U	4.1U	4.2U	4U	3.9U
BNAs (Method 8270)	***Concentration (µg/kg)***									
Phenol	46.3U	45.8U	46.6U	46.4U	48.2U	47.2U	49.5U	49.7U	48.2U	47.1U
Bis(-2-Chloroethyl)Ether	44.1U	43.7U	44.4U	44.2U	46.0U	45.0U	47.2U	47.4U	46.0U	45.0U
2-Chlorophenol	45.2U	44.8U	45.5U	45.3U	47.1U	46.1U	48.3U	48.6U	47.1U	46.1U
1,3-Dichlorobenzene	48.4U	48.0U	48.8U	48.5U	50.4U	49.4U	51.8U	52.0U	50.4U	49.3U
1,4-Dichlorobenzene	45.2U	44.8U	45.5U	45.3U	47.1U	46.1U	48.3U	48.6U	47.1U	46.1U
Benzyl Alcohol	43.1U	42.6U	43.3U	43.1U	44.8U	43.9U	46.0U	46.2U	44.8U	43.9U
1,2-Dichlorobenzene	59.2U	58.6U	59.6U	59.3U	61.7U	60.4U	63.3U	63.6U	61.7U	60.3U
2-Methylphenol	48.4U	48.0U	48.8U	48.5U	50.4U	49.4U	51.8U	52.0U	50.4U	49.3U
Bis(2-Chloroisopropyl)Ether	52.7U	52.2U	53.1U	52.9U	54.9U	53.8U	56.4U	56.6U	54.9U	53.7U
4-Methylphenol	46.3U	45.8U	46.6U	46.4U	48.2U	47.2U	49.5U	49.7U	48.2U	47.1U
N-Nitroso-Di-N-Propylamine	49.5U	49.0U	49.8U	49.6U	51.6U	50.5U	52.9U	53.2U	51.6U	50.4U
Hexachloroethane	52.7U	52.2U	53.1U	52.9U	54.9U	53.8U	56.4U	56.6U	54.9U	53.7U
Nitrobenzene	37.7U	37.3U	37.9U	37.8U	39.2U	38.4U	40.3U	40.5U	39.2U	38.4U
Isophorone	30.1U	29.9U	30.3U	30.2U	31.4U	30.7U	32.2U	32.4U	31.4U	30.7U
2-Nitrophenol	42.0U	41.6U	42.3U	42.1U	43.7U	42.8U	44.9U	45.1U	43.7U	42.8U
2,4-Dimethylphenol	35.5U	35.2U	35.8U	35.6U	37.0U	36.2U	38.0U	38.2U	37.0U	36.2U
Benzoic Acid	88.3U	87.4U	88.8U	88.5U	91.9U	90.0U	94.4U	94.8U	91.9U	89.9U
Bis(-2-Chloroethoxy)Methane	40.9U	40.5U	41.2U	41.0U	42.6U	41.7U	43.7U	43.9U	42.6U	41.7U
2,4-Dichlorophenol	47.4U	46.9U	47.7U	47.5U	49.3U	48.3U	50.6U	50.9U	49.3U	48.2U

Table 3 (Continued)
Summary of Soil Analytical Results
for Soil Borings 05-07

Analytes	SB05-0101	SB05-0109	SB05-0112	SB06-0101	SB06-0107	SB06-0117	SB07-0101	SB07-0109	SB07-0119	0101-0117
1,2,4-Trichlorobenzene	40.9U	40.5U	41.2U	41.0U	42.6U	41.7U	43.7U	43.9U	42.6U	41.7U
Naphthalene	40.9U	40.5U	41.2U	41.0U	42.6U	41.7U	43.7U	43.9U	42.6U	41.7U
4-Chloroaniline	149U	147U	150U	149U	155U	151U	159U	160U	155U	151U
Hexachlorobutadiene	44.1U	43.7U	44.4U	44.2U	46.0U	45.0U	47.2U	47.4U	46.0U	45.0U
4-Chloro-3-Methylphenol	38.8U	38.4U	39.0U	38.8U	40.4U	39.5U	41.4U	41.6U	40.4U	39.5U
2-Methylnaphthalene	38.8U	38.4U	39.0U	38.8U	40.4U	39.5U	41.4U	41.6U	40.4U	39.5U
Hexachlorocyclopentadiene	36.6U	36.2U	36.8U	36.7U	38.1U	37.3U	39.1U	39.3U	38.1U	37.3U
2,4,6-Trichlorophenol	35.5U	35.2U	35.8U	35.6U	37.0U	36.2U	38.0U	38.2U	37.0U	36.2U
2,4,5-Trichlorophenol	39.8U	39.4U	40.1U	39.9U	41.5U	40.6U	42.6U	42.8U	41.5U	40.6U
2-Chloronaphthalene	37.7U	37.3U	37.9U	37.8U	39.2U	38.4U	40.3U	40.5U	39.2U	38.4U
2-Nitroaniline	28.0U	27.7U	28.2U	28.0U	29.1U	28.5U	29.9U	30.1U	29.1U	28.5U
Dimethyl Phthalate	33.4U	33.0U	33.6U	33.4U	34.8U	34.0U	35.7U	35.8U	34.8U	34.0U
Acenaphthylene	42.0U	41.6U	42.3U	42.1U	43.7U	42.8U	44.9U	45.1U	43.7U	42.8U
2,6-Dinitrotoluene	34.4U	34.1U	34.7U	34.5U	35.9U	35.1U	36.8U	37.0U	35.9U	35.1U
3-Nitroaniline	84.0U	83.2U	84.5U	84.1U	87.4U	85.6U	89.8U	90.2U	87.4U	85.5U
Acenaphthene	34.4U	34.1U	34.7U	34.5U	35.9U	35.1U	36.8U	37.0U	35.9U	35.1U
2,4-Dinitrophenol	32.3U	32.0U	32.5U	32.4U	33.6U	32.9U	34.5U	34.7U	33.6U	32.9U
4-Nitrophenol	50.6U	50.1U	50.9U	50.7U	52.7U	51.6U	54.1U	54.3U	52.7U	51.5U
Dibenzofuran	36.6U	36.2U	36.8U	36.7U	38.1U	37.3U	39.1U	39.3U	38.1U	37.3U
2,4-Dinitrotoluene	32.3U	32.0U	32.5U	32.4U	33.6U	32.9U	34.5U	34.7U	33.6U	32.9U
Diethylphthalate	38.8U	38.4U	39.0U	38.8U	40.4U	39.5U	41.4U	41.6U	40.4U	39.5U
4-Chlorophenyl-Phenylether	36.6U	36.2U	36.8U	36.7U	38.1U	37.3U	39.1U	39.3U	38.1U	37.3U
Fluorene	37.7U	37.3U	37.9U	37.8U	39.2U	38.4U	40.3U	40.5U	39.2U	38.4U
4-Nitroaniline	63.5U	62.9U	63.9U	63.6U	66.1U	64.8U	67.9U	68.2U	66.1U	64.7U
4,6-Dinitro-2-Methylphenol	49.5U	49.0U	49.8U	49.6U	51.6U	50.5U	52.9U	53.2U	51.6U	50.4U
N-Nitrosodiphenylamine	42.0U	41.6U	42.3U	42.1U	43.7U	42.8U	44.9U	45.1U	43.7U	42.8U
4-Bromophenyl-Phenylether	37.7U	37.3U	37.9U	37.8U	39.2U	38.4U	40.3U	40.5U	39.2U	38.4U
Phenanthrene	32.3U	32.0U	32.5U	32.4U	33.6U	32.9U	34.5U	34.7U	33.6U	32.9U
Hexachlorobenzene	33.4U	33.0U	33.6U	33.4U	34.8U	34.0U	35.7U	35.8U	34.8U	34.0U
Pentachlorophenol	60.3U	59.7U	60.7U	60.3U	62.8U	61.5U	64.4U	64.7U	62.8U	61.4U
Anthracene	31.2U	30.9U	31.4U	31.3U	32.5U	31.8U	33.4U	33.5U	32.5U	31.8U
Di-N-Butylphthalate	2.37U	23.5U	23.8U	23.7U	24.7U	24.1U	483	25.4U	236 J	24.1U
Fluoranthene	30.1U	29.9U	30.3U	30.2U	31.4U	30.7U	32.2U	32.4U	31.4U	30.7U
Pyrene	30.1U	29.9U	30.3U	30.2U	31.4U	30.7U	32.2U	32.4U	31.4U	30.7U
Butylbenzylphthalate	32.3U	32.0U	32.5U	32.4U	33.6U	32.9U	34.5U	34.7U	33.6U	32.9U
3,3'-Dichlorobenzidine	254U	252U	256U	255U	265U	259U	272U	273U	265U	259U
Benzo(a)Anthracene	25.8U	25.6U	26.0U	25.9U	26.9U	26.3U	27.6U	27.7U	26.9U	26.3U
Chrysene	26.9U	26.7U	27.1U	27.0U	28.0U	27.4U	28.8U	28.9U	28.0U	27.4U
Bis(2-Ethylhexyl)Phthalate	33.4U	33.0U	33.6U	33.4U	34.8U	34.0U	35.7U	35.8U	34.8U	34.0U
Di-N-Octyl Phthalate	30.1U	29.9U	30.3U	30.2U	31.4U	30.7U	32.2U	32.4U	31.4U	30.7U
Benzo(b)Fluoranthene	57.1U	56.5U	57.4U	57.2U	59.4U	58.2U	61.0U	61.3U	59.4U	58.1U
Benzo(k)Fluoranthene	71.0U	70.4U	71.5U	71.2U	74.0U	72.4U	75.9U	76.3U	74.0U	72.4U
Benzo(a)Pyrene	31.2U	30.9U	31.4U	31.3U	32.5U	31.8U	33.4U	33.5U	32.5U	31.8U

Table 3 (Continued)
Summary of Soil Analytical Results
for Soil Borings 05-07

Analytes	SB05-0101	SB05-0109	SB05-0112	SB06-0101	SB06-0107	SB06-0117	SB07-0101	SB07-0109	SB07-0119	0101-0117
Indeno(1,2,3-cd)Pyrene	35.5U	35.2U	35.8U	35.6U	37.0U	36.2U	38.0U	38.2U	37.0U	36.2U
Dibenzo(a,h)Anthracene	33.4U	33.0U	33.6U	33.4U	34.8U	34.0U	35.7U	35.8U	34.8U	34.0U
Inorganics	***Concentration (mg/kg)***									
Aluminum	6490	3420	4770	5720	3760	3160	8900	6920	5520	2780
Antimony	3.0 J	2.1UJ	2.5 J	2.2UJ	2.5 J	2.2UJ	3.3 J	2.3UJ	2.3 J	2.2UJ
Arsenic	1.6	1.5	1.1	1.5	1.8	2	1.7	1.4	3	1.6
Barium	69.1	258	86.0	91.9	562	128	76.8	1030	414	115
Beryllium	0.45	0.41	0.46	0.41	0.31	0.25	0.58	0.69	0.37	0.23
Cadmium	0.54U	0.53U	0.54U	0.54U	0.56U	0.55U	0.58U	0.58U	0.56U	0.55U
Calcium	3050	67700	37200	28500	150000	148000	2110	118000	119000	149000
Chromium	7.6	3.4	4.6	6.2	4.5	3.1	9.8	2.2	5.3	2.8
Cobalt	3.5	2.5	2.5	2.6	2.7	1.6	4.3	3.1	2.4	1.6
Copper	8.0	3.1	3.2	6.3	2.8	1.9	6.5	3.2	3	1.7
Iron	7930	3680	4860	6200	4150	3000	9680	2740	5090	2810
Lead	9.7	3.6	3.9	9	3.3	2.2	8.7	7	2.9	2.1
Magnesium	1070	1890	2460	1180	2450	2450	1460	3640	3560	2430
Manganese	162 J	76.1 J	95.4 J	101 J	57.5 J	28.7 J	163 J	82.2 J	36.9 J	27.6 J
Mercury	0.086U	0.085U	0.087U	0.086U	0.09U	0.088U	0.092U	0.092U	0.09U	0.088U
Nickel	7.3	3.8	5.4	6.3	4.7	4.3	8.4	5	5.4	3.4
Potassium	1450	859	1430	1810	905	900	1540	1050	1600	778
Selenium	0.27U	0.27U	0.27U	0.27U	0.28U	0.27U	0.29U	0.29U	0.28U	0.27U
Silver	0.54U	0.53U	0.54U	0.54U	0.56U	0.55U	0.58U	0.58U	0.56U	0.55U
Sodium	60.3	243	259	117	129	216	79.0	159	314	209
Thallium	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.12U	0.12U	0.11U	0.11U
Vanadium	16.6	15.3	14.0	13.6	11.9	15.4	19.5	7.1	24.7	15.1
Zinc	18.9	9	11.5	15.2	9.1	6.3	22.1	11.7	9.9	6.4
Cyanide, Total	0.53U	0.53U	0.54U	0.54U	0.56U	0.54U	0.54U	0.55U	0.54U	0.55U
Petroleum Hydrocarbons	73.9	16.0U	16.3U	118	44.2	16.5U	28.5	18.5	16.8U	16.4U
	(%)									
Solids, Total	92.9	93.8	92.3	92.7	89.2	91.1	86.9	86.5	89.2	91.2

Note:
- B = Analyte found in blank as well as in sample.
- U = Not Detected (Preceding value is the Method Detection Limit).
- J = Indicates an estimated value.
- UJ = The Analyte was not detected above the Method Detection Limit, but the Method Detection Limit is an Approximate value.

Table 4
Summary of Soil Analytical Results
for Soil Borings 08-10

Analytes	SB08-0101	SB08-0103	SB08-0110	SB09-0101	SB09-0102	SB09-0115	SB10-0101	SB10-0106	SB10-0110
VOAs (Method 8260A)	***Concentration (µg/kg)***								
Dichlorodifluoromethane	2.3U	2.3U	2.2U	2.3U	2.2U	2.3U	2.3U	2.3U	2.3U
Chloromethane	1.6U	1.7U	1.6U	1.6U	1.6U	1.7U	1.7U	1.7U	1.7U
Vinyl Chloride	1.4U	1.4U	1.4U	1.4U	1.4U	1.4U	1.4U	1.5U	1.4U
Bromomethane	0.85U	0.88U	0.84U	0.86U	0.84U	0.87U	0.87U	0.88U	0.88U
Chloroethane	1.6U	1.7U	1.6U	1.6U	1.6U	1.7U	1.7U	1.7U	1.7U
Trichlorofluoromethane	2.6U	2.7U	2.5U	2.6U	2.5U	2.6U	2.6U	2.7U	2.7U
1,1-Dichloroethene	1.4U	1.4U	1.4U	1.4U	1.4U	1.4U	1.4U	1.5U	1.4U
Methylene Chloride	2.7U	2.8U	2.7U	2.7U	2.7U	2.8U	2.8U	2.8U	2.8U
trans-1,2-Dichloroethene	0.7U	0.72U	0.69U	0.71U	0.69U	0.72U	0.72U	0.73U	0.72U
1,1-Dichloroethane	0.7U	0.72U	0.69U	0.71U	0.69U	0.72U	0.72U	0.73U	0.72U
Carbon Disulfide	1.6U	1.7U	1.6U	1.6U	1.6U	1.7U	1.7U	1.7U	1.7U
2,2-Dichloropropane	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U
cis-1,2-dichloroethene	0.76U	0.78U	0.74U	0.76U	0.74U	0.77U	0.77U	0.78U	0.78U
Bromocnloromethane	0.89U	0.91U	0.87U	0.89U	0.87U	0.9U	0.91U	0.92U	0.91U
Chloroform	0.86U	0.89U	0.85U	0.87U	0.85U	0.88U	0.88U	0.89U	0.89U
1,1,1-Trichloroethane	0.55U	0.57U	0.54U	0.56U	0.54U	0.56U	0.56U	0.57U	0.57U
1,1-Dichloropropene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Carbon Tetrachloride	1.1U	1.1U	1U	1.1U	1U	1.1U	1.1U	1.1U	1.1U
Benzene	0.56U	0.58U	0.55U	0.57U	0.55U	0.57U	0.57U	0.58U	0.58U
1,2-Dichloroethane	0.88U	0.9U	0.86U	0.88U	0.86U	0.89U	0.89U	0.9U	0.9U
Trichloroethene	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U
1,2-Dichloropropane	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U
Bromodichloromethane	0.71U	0.73U	0.7U	0.72U	0.7U	0.73U	0.73U	.74U	0.73U
Dibromomethane	1U	1.1U	1U	1U	1U	1.1U	1.1U	1.1U	1.1U
cis-1,3-Dichloropropene	1U	1.1U	1U	1.1U	1U	1.1U	1.1U	1.1U	1.1U
Toluene	0.86U	0.89U	0.85U	0.87U	0.85U	0.88U	0.88U	0.89U	0.89U
trans-1,3-Dichloropropene	0.64U	0.66U	0.63U	0.64U	0.63U	0.65U	0.65U	0.66U	0.66U
1,1,2-Trichloroethane	0.88U	0.9U	0.86U	0.88U	0.86U	0.89U	0.89U	0.9U	0.9U
1,2-Dibromoethane	0.95U	0.98U	0.93U	0.96U	0.93U	0.97U	0.97U	0.98U	0.98U
Tetrachloroethene	0.84U	0.87U	0.83U	0.85U	0.83U	0.86U	0.86U	0.87U	0.87U
1,3-Dichloropropane	0.93U	0.96U	0.91U	0.94U	0.91U	0.95U	0.95U	0.96U	0.96U
Dibromochloromethane	0.63U	0.65U	0.62U	0.63U	0.62U	0.64U	0.64U	0.65U	0.65U
Chlorobenzene	0.62U	0.63U	0.61U	0.62U	0.61U	0.63U	0.63U	0.64U	0.63U
1,1,1,2-Tetrachloroethane	0.53U	0.55U	0.52U	0.53U	0.52U	0.54U	0.54U	0.55U	0.55U
Ethylbenzene	0.76U	0.78U	0.74U	0.76U	0.74U	0.77U	0.77U	0.78U	0.78U
m & p-Xylene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
o-Xylene	0.5U	0.51U	0.49U	0.5U	0.49U	0.51U	0.51U	0.51U	0.51U
Styrene	0.65U	0.67U	0.64U	0.65U	0.64U	0.66U	0.66U	0.67U	0.67U
2-Hexanone	4.6U	4.8U	4.6U	4.7U	4.6U	4.7U	4.7U	4.8U	4.8U
Bromoform	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U
Isopropylbenzene	0.71U	0.73U	0.7U	0.72U	0.7U	0.73U	0.73U	0.74U	0.73U

Table 4 (continued)
Summary of Soil Analytical Results
for Soil Borings 08-10

Analytes	SB08-0101	SB08-0103	SB08-0110	SB09-0101	SB09-0102	SB09-0115	SB10-0101	SB10-0106	SB10-0110
1,1,2,2-Tetrachloroethane	2.4U	2.4U	2.3U	2.4U	2.3U	2.4U	2.4U	2.5U	2.4U
Bromobenzene	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2,3-Trichloropropane	2.2U	2.2U	2.1U	2.2U	2.1U	2.2U	2.2U	2.2U	2.2U
n-Propylbenzene	0.63U	0.65U	0.62U	0.63U	0.62U	0.64U	0.64U	0.65U	0.65U
2-Chlorotoluene	0.84U	0.87U	0.83U	0.85U	0.83U	0.86U	0.86U	0.87U	0.87U
4-Chlorotoluene	0.86U	0.89U	0.85U	0.87U	0.85U	0.88U	0.88U	0.89U	0.89U
1,3,5-Trimethylbenzene	0.54U	0.56U	0.53U	0.54U	0.53U	0.55U	0.55U	0.56U	0.56U
tert-Butylbenzene	0.58U	0.6U	0.57U	0.59U	0.57U	0.59U	0.6U	0.6U	0.6U
1,2,4-Trimethylbenzene	0.76U	0.78U	0.74U	0.76U	0.74U	0.77U	0.77U	0.78U	0.78U
sec-Butylbenzene	0.68U	0.7U	0.67U	0.69U	0.67U	0.69U	0.7U	0.7U	0.7U
p-Isopropyltoluene	0.66U	0.68U	0.65U	0.66U	0.65U	0.67U	0.67U	0.68U	0.68U
1,3-Dichlorobenzene	0.99U	1U	0.98U	1U	.98U	1U	1U	1U	1U
1,4-Dichlorobenzene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dichlorobenzene	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U
n-Butylbenzene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dibromo-3-Chloropropane	2.7U	2.8U	2.7U	2.7U	2.7U	2.8U	2.8U	2.8U	2.8U
1,2,4-Trichlorobenzene	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U
Hexachlorobutadiene	0.84U	0.87U	0.83U	0.85U	0.83U	0.86U	0.86U	0.87U	0.87U
Naphthalene	1.8U	1.9U	1.8U	1.9U	1.8U	1.9U	1.9U	1.9U	1.9U
1,2,3-Trichlorobenzene	1.4U	1.4U	1.4U	1.4U	1.4U	1.4U	1.4U	1.5U	1.4U
Acetone	9.3U	9.6U	9.1U	9.4U	9.1U	11.0 J	9.5U	13.2 J	9.6U
2-Butanone	8.5U	8.8U	8.3U	8.6U	8.3U	8.6U	8.7U	8.8U	8.7U
4-Methyl-2-Pentanone	3.9U	4U	3.8U	3.9U	3.8U	4U	4U	4U	4U
BNAs (Method 8270)	***Concentration (µg/kg)***								
Phenol	46.5U	47.9U	45.6U	46.8U	45.6U	47.3U	47.5U	48.0U	47.8U
Bis(-2-Chloroethyl)Ether	44.3U	45.7U	43.5U	44.7U	43.5U	45.1U	45.3U	45.8U	45.6U
2-Chlorophenol	45.4U	46.8U	44.6U	45.8U	44.6U	46.2U	46.4U	46.9U	46.7U
1,3-Dichlorobenzene	48.6U	50.1U	47.8U	49.0U	47.8U	49.5U	49.7U	50.2U	50.1U
1,4-Dichlorobenzene	45.4U	46.8U	44.6U	45.8U	44.6U	46.2U	46.4U	46.9U	46.7U
Benzyl Alcohol	43.2U	44.5U	42.5U	43.6U	42.5U	44.0U	44.2U	44.6U	44.5U
1,2-Dichlorobenzene	59.5U	61.2U	58.4U	59.9U	58.4U	60.5U	60.7U	61.4U	61.2U
2-Methylphenol	48.6U	50.1U	47.8U	49.0U	47.8U	49.5U	49.7U	50.2U	50.1U
Bis(2-Chloroisopropyl)Ether	53.0U	54.6U	52.0U	53.4U	52.0U	53.9U	54.1U	54.7U	54.5U
4-Methylphenol	46.5U	47.9U	45.6U	46.8U	45.6U	47.3U	47.5U	48.0U	47.8U
N-Nitroso-Di-N-Propylamine	49.7U	51.2U	48.8U	50.1U	48.8U	50.6U	50.8U	51.3U	51.2U
Hexachloroethane	53.0U	54.6U	52.0U	53.4U	52.0U	53.9U	54.1U	54.7U	54.5U
Nitrobenzene	37.8U	39.0U	37.2U	38.1U	37.2U	38.5U	38.6U	39.1U	38.9U
Isophorone	30.3U	31.2U	29.7U	30.5U	29.7U	30.8U	30.9U	31.3U	31.1U
2-Nitrophenol	42.2U	43.4U	41.4U	42.5U	41.4U	42.9U	43.0U	43.5U	43.4U
2,4-Dimethylphenol	35.7U	36.7U	35.0U	35.9U	35.0U	36.3U	36.4U	36.8U	36.7U
Benzoic Acid	88.6U	91.3U	87.0U	89.3U	87.0U	90.2U	90.5U	91.5U	91.2U
Bis(-2-Chloroethoxy)Methane	41.1U	42.3U	40.3U	41.4U	40.3U	41.8U	41.9U	42.4U	42.3U
2,4-Dichlorophenol	47.6U	49.0U	46.7U	47.9U	46.7U	48.4U	48.6U	49.1U	48.9U

Table 4 (continued)
Summary of Soil Analytical Results
for Soil Borings 08-10

Analytes	SB08-0101	SB08-0103	SB08-0110	SB09-0101	SB09-0102	SB09-0115	SB10-0101	SB10-0106	SB10-0110
1,2,4-Trichlorobenzene	41.1U	42.3U	40.3U	41.4U	40.3U	41.8U	41.9U	42.4U	42.3U
Naphthalene	41.1U	42.3U	40.3U	41.4U	40.3U	41.8U	41.9U	42.4U	42.3U
4-Chloroaniline	149U	154U	146U	150U	146U	152U	152U	154U	154U
Hexachlorobutadiene	44.3U	45.7U	43.5U	44.7U	43.5U	45.1U	45.3U	45.8U	45.6U
4-Chloro-3-Methylphenol	38.9U	40.1U	38.2U	39.2U	38.2U	39.6U	39.7U	40.2U	40.0U
2-Methylnaphthalene	38.9U	40.1U	38.2U	39.2U	38.2U	39.6U	39.7U	40.2U	40.0U
Hexachlorocyclopentadiene	36.8U	37.9U	36.1U	37.0U	36.1U	37.4U	37.5U	37.9U	37.8U
2,4,6-Trichlorophenol	35.7U	36.7U	35.0U	35.9U	35.0U	36.3U	36.4U	36.8U	36.7U
2,4,5-Trichlorophenol	40.0U	41.2U	39.3U	40.3U	39.3U	40.7U	40.8U	41.3U	41.2U
2-Chloronaphthalene	37.8U	39.0U	37.2U	38.1U	37.2U	38.5U	38.6U	39.1U	38.9U
2-Nitroaniline	28.1U	29.0U	27.6U	28.3U	27.6U	28.6U	28.7U	29.0U	28.9U
Dimethyl Phthalate	33.5U	34.5U	32.9U	33.8U	32.9U	34.1U	34.2U	34.6U	34.5U
Acenaphthylene	42.2U	43.4U	41.4U	42.5U	41.4U	42.9U	43.0U	43.5U	43.4U
2,6-Dinitrotoluene	34.6U	35.6U	34.0U	34.9U	34.0U	35.2U	35.3U	35.7U	35.6U
3-Nitroaniline	84.3U	86.9U	82.8U	85.0U	82.8U	85.8U	86.1U	87.1U	86.8U
Acenaphthene	34.6U	35.6U	34.0U	34.9U	34.0U	35.2U	35.3U	35.7U	35.6U
2,4-Dinitrophenol	32.4U	33.4U	31.8U	32.7U	31.8U	33.0U	33.1U	33.5U	33.4U
4-Nitrophenol	50.8U	52.3U	49.9U	51.2U	49.9U	51.7U	51.9U	52.5U	52.3U
Dibenzofuran	36.8U	37.9U	36.1U	37.0U	36.1U	37.4U	37.5U	37.9U	37.8U
2,4-Dinitrotoluene	32.4U	33.4U	31.8U	32.7U	31.8U	33.0U	33.1U	33.5U	33.4U
Diethylphthalate	38.9U	40.1U	38.2U	39.2U	38.2U	39.6U	39.7U	40.2U	40.0U
4-Chlorophenyl-Phenylether	36.8U	37.9U	36.1U	37.0U	36.1U	37.4U	37.5U	37.9U	37.8U
Fluorene	37.8U	39.0U	37.2U	38.1U	37.2U	38.5U	38.6U	39.1U	38.9U
4-Nitroaniline	63.8U	65.7U	62.6U	64.3U	62.6U	64.9U	65.1U	65.8U	65.6U
4,6-Dinitro-2-Methylphenol	49.7U	51.2U	48.8U	50.1U	48.8U	50.6U	50.8U	51.3U	51.2U
N-Nitrosodiphenylamine	42.2U	43.4U	41.4U	42.5U	41.4U	42.9U	43.0U	43.5U	43.4U
4-Bromophenyl-Phenylether	37.8U	39.0U	37.2U	38.1U	37.2U	38.5U	38.6U	39.1U	38.9U
Phenanthrene	32.4U	33.4U	31.8U	32.7U	31.8U	33.0U	33.1U	33.5U	33.4U
Hexachlorobenzene	33.5U	34.5U	32.9U	33.8U	32.9U	34.1U	34.2U	34.6U	34.5U
Pentachlorophenol	60.5U	62.4U	59.4U	61.0U	59.4U	61.6U	61.8U	62.5U	62.3U
Anthracene	31.4U	32.3U	30.8U	31.6U	30.8U	31.9U	32.0U	32.4U	32.3U
Di-N-Butylphthalate	23.8U	24.5U	23.4U	24.0U	23.4U	24.2U	24.3U	24.6U	24.5U
Fluoranthene	30.3U	31.2U	29.7U	30.5U	29.7U	30.8U	30.9U	31.3U	31.1U
Pyrene	30.3U	31.2U	29.7U	30.5U	29.7U	30.8U	30.9U	31.3U	31.1U
Butylbenzylphthalate	32.4U	33.4U	31.8U	32.7U	31.8U	33.0U	33.1U	33.5U	33.4U
3,3'-Dichlorobenzidine	255U	263U	251U	257U	251U	260U	260U	263U	263U
Benzo(a)Anthracene	25.9U	26.7U	25.5U	26.1U	25.5U	26.4U	26.5U	26.8U	26.7U
Chrysene	27.0U	27.8U	26.5U	27.2U	26.5U	27.5U	27.6U	27.9U	27.8U
Bis(2-Ethylhexyl)Phthalate	33.5U	34.5U	32.9U	63.7 J	32.9U	34.1U	34.2U	34.6U	34.5U
Di-N-Octyl Phthalate	30.5U	31.2U	29.7U	30.5U	29.7U	30.8U	30.9U	31.3U	31.1U
Benzo(b)Fluoranthene	57.3U	59.0U	56.3U	57.7U	56.3U	58.3U	58.5U	59.2U	59.0U
Benzo(k)Fluoranthene	71.4U	73.5U	70.1U	71.9U	70.1U	72.6U	72.8U	73.7U	73.4U
Benzo(a)Pyrene	31.4U	32.3U	30.8U	31.6U	30.8U	31.9U	32.0U	32.4U	32.3U

Table 4 (continued)
Summary of Soil Analytical Results
for Soil Borings 08-10

Analytes	SB08-0101	SB08-0103	SB08-0110	SB09-0101	SB09-0102	SB09-0115	SB10-0101	SB10-0106	SB10-0110
Indeno(1,2,3-cd)Pyrene	35.7U	36.7U	35.0U	35.9U	35.0U	36.3U	36.4U	36.8U	36.7U
Dibenzo(a,h)Anthracene	33.5U	34.5U	32.9U	33.8U	32.9U	34.1U	34.2U	34.6U	34.5U
Inorganics	***Concentration (mg/kg)***								
Aluminum	3840	2020	3060	3830	3830	3430	6030	4480	5870
Antimony	3.1 J	2.3 J	2.4 J	3.4 J	3.5 J	2.8 J	4.5 J	2.6 J	2.2UJ
Arsenic	1.5	0.65	1.3	1.7	2.9	1.6	2.1	1.8	1.5
Barium	61.6	158	105	51.9	125	83.9	75.5	712	396
Beryllium	0.36	0.21	0.28	0.37	0.31	0.28	0.49	0.3	0.43
Cadmium	0.54U	0.56U	0.53U	0.54U	0.53U	0.55U	0.55U	0.56U	0.56U
Calcium	3840	253000	71800	2280	199000	207000	5390	177000	136000
Chromium	5.4	2.2	4	5.7	3.6	3.9	7.5	4	4.7
Cobalt	2.6	1.9	1.9	2.8	2.3	1.5	3.4	2.7	3
Copper	7.1	1.8	2.7	5.8	2.8	2.2	6.8	2.2	2.5
Iron	4950	1860	3030	5430	3350	2830	7200	3610	4700
Lead	18.7	0.91	3.2	9.2	2.8	2.5	9.4	2.2	3.9
Magnesium	753	1990	1680	743	2150	3590	1130	3510	4080
Manganese	121	21.2	45.7	137	40.9	21.7	142	42.1	58.0
Mercury	0.086U	0.089U	0.085U	0.087U	0.085U	0.088U	0.088U	0.089U	0.089U
Nickel	4.6	3.3	4.2	4.7	5.6	3.4	7.3	5.3	5.8
Potassium	905	435	948	988	806	1090	1300	902	1710
Selenium	0.12	0.096	0.084	0.13	0.12	0.092	0.094	0.12	0.068
Silver	0.54U	0.56U	0.53U	0.54U	0.53U	0.55U	0.55U	0.56U	0.56U
Sodium	57.5	140	256	70.8	147	294	78.3	86.0	82.7
Thallium	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U
Vanadium	11.4	7.8	10.2	12.3	9.8	11.8	15.4	10.8	14.4
Zinc	17.2	4.9	7.5	13.2	7.9	5.8	16.4	11.0	12.2
Cyanide, Total	0.54U	0.55U	0.53U	0.54U	0.53U	0.55U	0.55U	0.55U	0.56U
Petroleum Hydrocarbons	380	16.7U	16.1	29.5	15.9U	16.5U	140	16.7U	38.6
	(%)								
Solids, Total	92.5	89.8	94.2	91.8	94.2	90.9	90.6	89.6	89.9

Note:
- B = Analyte found in blank as well as in sample.
- U = Not Detected (Preceding value is the Method Detection Limit).
- J = Indicates an estimated value.
- UJ = The Analyte was not detected above the Method Detection Limit, but the Method Detection Limit is an Approximate value.

Table 5
Summary of Soil Analytical Results
for Soil Borings 11-13

Analytes	SB11-0101	SB11-0107	SB11-0117	SB12-0101	SB12-0102	SB12-0110	SB12-0121	SB12-0130	SB13-0101	SB13-0104	SB13-0115
VOAs (Method 8260A)	***Concentration (µg/kg)***										
Dichlorodifluoromethane	2.2U	2.4U	2.3U	2.4U	2.3U	2.4U	2.3U	2.4U	2.3U	2.2U	2.3U
Chloromethane	1.6U	1.7U	1.7U	1.7U	1.6U	1.7U	1.7U	1.7U	1.6U	1.6U	1.6U
Vinyl Chloride	1.4U	1.5U	1.4U	1.5U	1.4U	1.5U	1.4U	1.5U	1.4U	1.4U	1.4U
Bromomethane	0.83U	0.89U	0.87U	0.9U	0.87U	0.9U	0.88U	0.9U	0.85U	0.83U	0.85U
Chloroethane	1.6U	1.7U	1.7U	1.7U	1.6U	1.7U	1.7U	1.7U	1.6U	1.6U	1.6U
Trichlorofluoromethane	2.5U	2.7U	2.7U	2.7U	2.6U	2.7U	2.7U	2.7U	2.6U	2.5U	2.6U
1,1-Dichloroethene	1.4U	1.5U	1.4U	1.5U	1.4U	1.5U	1.4U	1.5U	1.4U	1.4U	1.4U
Methylene Chloride	7.4	2.8U	2.8U	2.8U	2.7U	2.9U	2.8U	14.0	11.0	2.6U	2.7U
trans-1,2-Dichloroethene	0.68U	0.73U	0.72U	0.74U	0.71U	0.74U	0.72U	0.74U	0.7U	0.69U	0.7U
1,1-Dichloroethane	0.68U	0.73U	0.72U	0.74U	0.71U	0.74U	0.72U	0.74U	0.7U	0.69U	0.7U
Carbon Disulfide	1.6U	1.7U	1.7U	1.7U	1.6U	1.7U	1.7U	1.7U	1.6U	1.6U	1.6U
2,2-Dichloropropane	1.3U	1.4U	1.3U	1.4U	1.3U	1.4U	1.3U	1.4U	1.3U	1.3U	1.3U
cis-1,2-dichloroethene	0.73U	0.79U	0.77U	0.8U	0.77U	0.8U	0.78U	0.79U	0.76U	0.74U	0.76U
Bromochloromethane	0.86U	0.93U	0.91U	0.93U	0.9U	0.94U	0.91U	0.93U	0.89U	0.87U	0.88U
Chloroform	0.84U	0.9U	0.88U	0.91U	0.88U	0.92U	0.89U	0.91U	0.87U	0.84U	0.86U
1,1,1-Trichloroethane	0.53U	0.58U	0.56U	0.58U	0.56U	0.58U	0.57U	0.58U	0.55U	0.54U	0.55U
1,1-Dichloropropene	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Carbon Tetrachloride	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1U	1.1U
Benzene	0.54U	0.59U	0.58U	0.59U	0.57U	0.6U	0.58U	0.59U	0.56U	0.55U	0.56U
1,2-Dichloroethane	0.85U	0.92U	0.9U	0.92U	0.89U	0.93U	0.9U	0.92U	0.88U	0.86U	0.87U
Trichloroethene	1.1U	1.2U	1.2U	1.3U	1.2U	1.3U	1.2U	1.2U	1.2U	1.2U	1.2U
1,2-Dichloropropane	1.1U	1.2U	1.2U	1.3U	1.2U	1.3U	1.2U	1.2U	1.2U	1.2U	1.2U
Bromodichloromethane	0.69U	0.75U	0.73U	0.75U	0.72U	0.76U	0.73U	0.75U	0.71U	0.7U	0.71U
Dibromomethane	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1U	1U	1U
cis-1,3-Dichloropropene	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1U	1U	1U
Toluene	1.9 J	0.9U	0.88U	1.6 J	0.88U	0.92U	0.89U	0.91U	0.87U	0.84U	0.86U
trans-1,3-Dichloropropene	0.62U	0.67U	0.65U	0.67U	0.65U	0.68U	0.66U	0.67U	0.64U	0.62U	0.64U
1,1,2-Trichloroethane	0.85U	0.92U	0.9U	0.92U	0.89U	0.93U	0.9U	0.92U	0.88U	0.86U	0.87U
1,2-Dibromoethane	0.92U	0.99U	0.97U	1U	0.96U	1U	0.98U	1U	0.95U	0.93U	0.95U
Tetrachloroethene	0.82U	0.88U	0.86U	0.89U	0.85U	0.89U	0.87U	0.88U	0.84U	0.82U	0.84U
1,3-Dichloropropane	0.9U	0.97U	0.95U	0.98U	0.94U	0.99U	0.96U	0.98U	0.93U	0.91U	0.93U
Dibromochloromethane	0.61U	0.66U	0.64U	0.66U	0.64U	0.66U	0.64U	0.66U	0.63U	0.61U	0.63U
Chlorobenzene	0.6U	0.64U	0.63U	0.65U	0.62U	0.65U	0.63U	0.65U	0.62U	0.6U	0.61U
1,1,1,2-Tetrachloroethane	0.51U	0.55U	0.54U	0.56U	0.54U	0.56U	0.54U	0.56U	0.53U	0.52U	0.53U
Ethylbenzene	0.73U	0.79U	0.77U	0.8U	0.77U	0.8U	0.78U	0.79U	0.76U	0.74U	0.76U
m & p-Xylene	1U	1.1U	1.1U	2.7 J	1.2 J	1.1 J	1.1U	1.1U	1.1U	1.1U	1.1U
o-Xylene	0.48U	0.52U	0.51U	1.2 J	0.5U	0.53 U	0.51U	0.52U	0.5U	0.49U	0.5U
Styrene	0.63U	0.68U	0.66U	0.68U	0.66U	0.69U	0.67U	0.68U	0.65U	0.63U	0.65U
2-Hexanone	4.5U	4.9U	4.8U	4.9U	4.7U	4.9U	4.8U	4.9U	4.7U	4.5U	4.6U

Table 5 (continued)
Summary of Soil Analytical Results
for Soil Borings 11-13

Analytes	SB11-0101	SB11-0107	SB11-0117	SB12-0101	SB12-0102	SB12-0110	SB12-0121	SB12-0130	SB13-0101	SB13-0104	SB13-0115
Bromoform	1.3U	1.4U	1.3U	1.4U	1.3U	1.4U	1.3U	1.4U	1.3U	1.3U	1.3U
Isopropylbenzene	0.69U	0.75U	0.73U	0.75U	0.72U	0.76U	0.73U	0.75U	0.71U	0.7U	0.71U
1,1,2,2-Tetrachloroethane	2.3U	2.5U	2.4U	2.5U	2.4U	2.5U	2.4U	2.5U	2.4U	2.3U	2.4U
Bromobenzene	0.98U	1.1U	1U	1.1U	1U	1.1U	1U	1.1U	1U	0.99U	1U
1,2,3-Trichloropropane	2.1U	2.3U	2.2U	2.3U	2.2U	2.3U	2.2U	2.3U	2.2U	2.1U	2.2U
n-Propylbenzene	0.61U	0.66U	0.64U	0.66U	0.64U	0.66U	0.64U	0.66U	0.63U	0.61U	0.63U
2-Chlorotoluene	0.82U	0.88U	0.86U	0.89U	0.85U	0.89U	0.87U	0.88U	0.84U	0.82U	0.84U
4-Chlorotoluene	0.84U	0.9U	0.88U	0.91U	0.88U	0.92U	0.89U	0.91U	0.87U	0.84U	0.86U
1,3,5-Trimethylbenzene	0.52U	0.56U	0.55U	0.57U	0.55U	0.57U	0.56U	0.57U	0.54U	0.53U	0.54U
tert-Butylbenzene	0.56U	0.61U	0.6U	0.62U	0.59U	0.62U	0.6U	0.61U	0.58U	0.57U	0.58U
1,2,4-Trimethylbenzene	0.73U	0.79U	0.77U	1.1 J	0.77U	2 J	0.78U	0.79U	0.76U	0.74U	0.76U
sec-Butylbenzene	0.66U	0.71U	0.7U	0.72U	0.69U	0.72U	0.7U	0.71U	0.68U	0.67U	0.68U
p-Isopropyltoluene	0.64U	0.69U	0.67U	0.69U	0.67U	0.7U	0.68U	0.69U	0.66U	0.64U	0.66U
1,3-Dichlorobenzene	0.96U	1U	1U	1U	1U	1.1U	1U	1U	1U	0.97U	0.99U
1,4-Dichlorobenzene	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dichlorobenzene	1.3U	1.4U	1.3U	1.4U	1.3U	1.4U	1.3U	1.4U	1.3U	1.3U	1.3U
n-Butylbenzene	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dibromo-3-Chloropropane	2.6U	2.8U	2.8U	2.8U	2.7U	2.9U	2.8U	2.8U	2.7U	2.6U	2.7U
1,2,4-Trichlorobenzene	1.1U	1.2U	1.2U	1.3U	1.2U	1.3U	1.2U	1.2U	1.2U	1.2U	1.2U
Hexachlorobutadiene	0.82U	0.88U	0.86U	0.89U	0.85U	0.89U	0.87U	0.88U	0.84U	0.82U	0.84U
Naphthalene	1.8U	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	1.8U	1.8U	1.8U
1,2,3-Trichlorobenzene	1.4U	1.5U	1.4U	1.5U	1.4U	1.5U	1.4U	1.5U	1.4U	1.4U	1.4U
Acetone	12.3 J	17.1 J	9.5U	9.8 U	13.2 J	36.3 J	12.4 J	9.8U	9.3U	9.1U	9.3U
2-Butanone	8.2U	8.9U	8.7U	9U	8.6U	9U	8.7U	8.9	8.5U	8.3U	8.5U
4-Methyl-2-Pentanone	3.8U	4.1U	4U	4.1U	3.9U	4.1U	4U	4.1U	3.9U	3.8U	3.9U
BNAs (Method 8270)	***Concentration (µg/kg)***										
Phenol	225U	48.6U	47.6U	49.0U	47.1U	49.3U	47.8U	48.8U	46.5U	45.4U	46.4U
Bis(-2-Chloroethyl)Ether	214U	46.3U	45.4U	46.7U	44.9U	47.0U	45.6U	46.5U	44.4U	43.3U	44.2U
2-Chlorophenol	219U	47.5U	46.5U	47.8U	46.0U	48.1U	46.7U	47.6U	45.5U	44.4U	45.3U
1,3-Dichlorobenzene	235U	50.8U	49.8U	51.3U	49.3U	51.5U	50.0U	51.0U	48.7U	47.5U	48.5U
1,4-Dichlorobenzene	219U	47.5U	46.5U	47.8U	46.0U	48.1U	46.7U	47.6U	45.5U	44.4U	45.3U
Benzyl Alcohol	209U	45.2U	44.2U	45.6U	43.8U	45.8U	44.4U	45.4U	43.3U	42.2U	43.1U
1,2-Dichlorobenzene	287U	62.1U	60.8U	62.6U	60.2U	63.0U	61.1U	62.4U	59.5U	58.1U	59.3U
2-Methylphenol	235U	50.8U	49.8U	51.3U	49.3U	51.5U	50.0U	51.0U	48.7U	47.5U	48.5U
Bis(2-Chloroisopropyl)Ether	256U	55.4U	54.2U	55.8U	53.7U	56.1U	54.4U	55.6U	53.0U	51.7U	52.9U
4-Methylphenol	225U	48.6U	47.6U	49.0U	47.1U	49.3U	47.8U	48.8U	46.5U	45.4U	46.4U
N-Nitroso-Di-N-Propylamine	240U	52.0U	50.9U	52.4U	50.4U	52.7U	51.1U	52.2U	49.8U	48.6U	49.6U
Hexachloroethane	256U	55.4U	54.2U	55.8U	53.7U	56.1U	54.4U	55.6U	53.0U	51.7U	52.9U
Nitrobenzene	183U	39.5U	38.7U	39.9U	38.3U	40.1U	38.9U	39.7U	37.9U	37.0U	37.8U
Isophorone	146U	31.6U	31.0U	31.9U	30.7U	32.1U	31.1U	31.7U	30.3U	29.6U	30.2U
2-Nitrophenol	204U	44.1U	43.1U	44.4U	42.7U	44.7U	43.3U	44.2U	42.2U	41.2U	42.1U
2,4-Dimethylphenol	172U	37.3U	36.5U	37.6U	36.1U	37.8U	36.7U	37.4U	35.7U	34.8U	35.6U
Benzoic Acid	428U	92.7U	90.7U	93.4U	89.8U	93.9U	91.1U	93.0U	88.7U	86.6U	88.5U

Table 5 (continued)
Summary of Soil Analytical Results
for Soil Borings 11-13

Analytes	SB11-0101	SB11-0107	SB11-0117	SB12-0101	SB12-0102	SB12-0110	SB12-0121	SB12-0130	SB13-0101	SB13-0104	SB13-0115
Bis(-2-Chloroethoxy)Methane	199U	42.9U	42.0U	43.3U	41.6U	43.5U	42.2U	43.1U	41.1U	40.1U	41.0U
2,4-Dichlorophenol	230U	49.7U	48.7U	50.1U	48.2U	50.4U	48.9U	49.9U	47.6U	46.5U	47.5U
1,2,4-Trichlorobenzene	199U	42.9U	42.0U	43.3U	41.6U	43.5U	42.2U	43.1U	41.1U	40.1U	41.0U
Naphthalene	199U	42.9U	42.0U	43.3U	41.6U	43.5U	42.2U	43.1U	41.1U	40.1U	41.0U
4-Chloroaniline	721U	156U	153U	157U	151U	158U	153U	156U	149U	146U	149U
Hexachlorobutadiene	214U	46.3U	45.4U	46.7U	44.9U	47.0U	45.6U	46.5U	44.4U	43.3U	44.2U
4-Chloro-3-Methylphenol	188U	40.7U	39.8U	41.0U	39.4U	41.2U	40.0U	40.8U	39.0U	38.0U	38.8U
2-Methylnaphthalene	188U	40.7U	39.8U	41.0U	39.4U	41.2U	40.0U	40.8U	39.0U	38.0U	38.8U
Hexachlorocyclopentadiene	178U	38.4U	37.6U	38.7U	37.2U	38.9U	37.8U	38.5U	36.8U	35.9U	36.7U
2,4,6-Trichlorophenol	172U	37.3U	36.5U	37.6U	36.1U	37.8U	36.7U	37.4U	35.7U	34.8U	35.6U
2,4,5-Trichlorophenol	193U	41.8U	40.9U	42.1U	40.5U	42.4U	41.1U	42.0U	40.0U	39.1U	39.9U
2-Chloronaphthalene	183U	39.5U	38.7U	39.9U	38.3U	40.1U	38.9U	39.7U	37.9U	37.0U	37.8U
2-Nitroaniline	136U	29.4U	28.8U	29.6U	28.5U	29.8U	28.9U	29.5U	28.1U	27.5U	28.0U
Dimethyl Phthalate	162U	35.0U	34.3U	35.3U	34.0U	35.5U	34.4U	35.1U	33.5U	32.7U	33.4U
Acenaphthylene	204U	44.1U	43.1U	44.4U	42.7U	44.7U	43.3U	44.2U	42.2U	41.2U	42.1U
2,6-Dinitrotoluene	167U	36.2U	35.4U	36.4U	35.0U	36.7U	35.6U	36.3U	34.6U	33.8U	34.5U
3-Nitroaniline	408U	88.1U	86.3U	88.8U	85.4U	89.3U	86.7U	88.4U	84.4U	82.4U	84.1U
Acenaphthene	167U	36.2U	35.4U	36.4U	35.0U	36.7U	35.6U	36.3U	34.6U	33.8U	34.5U
2,4-Dinitrophenol	157U	33.9U	33.2U	34.2U	32.9U	34.4U	33.3U	34.0U	32.5U	31.7U	32.4U
4-Nitrophenol	246U	53.1U	52.0U	53.5U	51.5U	53.8U	52.2U	53.3U	50.9U	49.6U	50.7U
Dibenzofuran	178U	38.4U	37.6U	38.7U	37.2U	38.9U	37.8U	38.5U	36.8U	35.9U	36.7U
2,4-Dinitrotoluene	157U	33.9U	33.2U	34.2U	32.9U	34.4U	33.3U	34.0U	32.5U	31.7U	32.4U
Diethylphthalate	188U	40.7U	39.8U	41.0U	39.4U	41.2U	40.0U	40.8U	39.0U	38.0U	38.8U
4-Chlorophenyl-Phenylether	178U	38.4U	37.6U	38.7U	37.2U	38.9U	37.8U	38.5U	36.8U	35.9U	36.7U
Fluorene	183U	39.5U	38.7U	39.9U	38.3U	40.1U	38.9U	39.7U	37.9U	37.0U	37.8U
4-Nitroaniline	308U	66.7U	65.3U	67.2U	64.6U	67.6U	65.6U	66.9U	63.9U	62.3U	63.6U
4,6-Dinitro-2-Methylphenol	240U	52.0U	50.9U	52.4U	50.4U	52.7U	51.1U	52.2U	49.8U	48.6U	49.6U
N-Nitrosodiphenylamine	204U	44.1U	43.1U	44.4U	42.7U	44.7U	43.3U	44.2U	42.2U	41.2U	42.1U
4-Bromophenyl-Phenylether	183U	39.5U	38.7U	39.9U	38.3U	40.1U	38.9U	39.7U	37.9U	37.0U	37.8U
Phenanthrene	559 J	33.9U	33.2U	34.2U	32.9U	34.4U	33.3U	34.0U	32.5U	31.7U	32.4U
Hexachlorobenzene	162U	35.0U	34.3U	35.3U	34.0U	35.5U	34.4U	35.1U	33.5U	32.7U	33.4U
Pentachlorophenol	293U	63.3U	61.9U	63.8U	61.3U	64.1U	62.2U	63.5U	60.6U	59.1U	60.4U
Anthracene	152U	32.8U	32.1U	33.0U	31.8U	33.2U	32.2U	32.9U	31.4U	30.6U	31.3U
Di-N-Butylphthalate	115U	24.9U	24.3U	25.1U	24.1U	25.2U	24.4U	24.9U	23.8U	719 B	23.7U
Fluoranthene	1230 J	31.6U	31.0U	31.9U	30.7U	32.1U	31.1U	31.7U	30.3U	29.6U	30.2U
Pyrene	1340 J	31.6U	31.0U	31.9U	30.7U	32.1U	31.1U	31.7U	30.3U	29.6U	30.2U
Butylbenzylphthalate	157U	33.9U	33.2U	34.2U	32.9U	34.4U	33.3U	34.0U	32.5U	31.7U	32.4U
3,3'-Dichlorobenzidine	1230U	267U	261U	269U	258U	270U	262U	268U	255U	249U	255U
Benzo(a)Anthracene	565 J	27.1U	26.5U	27.3U	26.3U	27.5U	26.7U	27.2U	26.0U	25.3U	25.9U
Chrysene	688 J	28.2U	27.7U	28.5U	27.4U	28.6U	27.7U	28.3U	27.1U	26.4U	27.0U
Bis(2-Ethylhexyl)Phthalate	162U	35.0U	34.3U	35.3U	34.0U	35.5U	34.4U	35.1U	33.5U	32.7U	33.4U
Di-N-Octyl Phthalate	146U	31.6U	31.0U	31.9U	30.7U	32.1U	31.1U	31.7U	30.5U	29.6U	30.2U
Benzo(b)Fluoranthene	895 J	59.9U	58.6U	60.4U	58.1U	60.7U	58.9U	60.1U	57.4U	56.0U	57.2U

Table 5 (continued)
Summary of Soil Analytical Results
for Soil Borings 11-13

Analytes	SB11-0101	SB11-0107	SB11-0117	SB12-0101	SB12-0102	SB12-0110	SB12-0121	SB12-0130	SB13-0101	SB13-0104	SB13-0115
Benzo(k)Fluoranthene	636 J	74.6U	73.0U	75.2U	72.3U	75.6U	73.3U	74.8U	71.4U	69.7U	71.2U
Benzo(a)Pyrene	750 J	32.8U	32.1U	33.0U	31.8U	33.2U	32.2U	32.9U	31.4U	30.6U	31.3U
Indeno(1,2,3-cd)Pyrene	224 J	37.3U	36.5U	37.6U	36.1U	37.8U	36.7U	37.4U	35.7U	34.8U	35.6U
Dibenzo(a,h)Anthracene	162U	35.0U	34.3U	35.3U	34.0U	35.5U	34.4U	35.1U	33.5U	32.7U	33.4U
Inorganics	***Concentrations (mg/kg)***										
Aluminum	1230	6780	3920	7620	5310	3630	4630	3280	4890	2230	4020
Antimony	2.6 J	2.3 J	2.2UJ	2.9 J	2.2UJ	2.3UJ	2.2UJ	2.3UJ	4.3 J	2.1 UJ	2.7 J
Arsenic	2.1	1.3	2.1	1.9	1.4	1.2	1.7	1.3	1.9	1.6	1.4
Barium	623	283	40.1	93.5	49.5	146	327	100	61.4	128	314
Beryllium	0.17	0.74	0.37	0.57	0.42	0.36	0.35	0.21	0.44	0.22	0.32
Cadmium	0.52U	0.56U	0.55U	0.57U	0.55U	0.57U	0.56U	0.57U	0.54U	0.53U	0.54U
Calcium	81500	93300	24100	2120	1700	51500	60100	122000	1960	77200	195000
Chromium	3.2	2.5	4.9	8.9	6.8	4	4.1	4.3	6.9	3	3.9
Cobalt	2.9	2.2	2.1	4.3	2.9	2.8	2.6	1.8	3.2	2	2.1
Copper	4.7	2.3	2.8	5.6	4.6	3.1	3	1.7	7.3	2.8	2
Iron	5150	3090	4620	9070	6180	3540	4490	2710	6860	2590	3160
Lead	3.3	7.6	4.3	8.7	6.4	3.9	3.8	2.2	10.9	2.8	2.4
Magnesium	1280	2810	2160	1330	931	2010	2980	3260	818	1020	4220
Manganese	1350	83.8	41.1	164	85.4	81.0	66.3	30.1	144	29.4	25.5
Mercury	0.084U	0.09U	0.088U	0.091U	0.088U	0.092U	0.089U	0.091U	0.087U	0.084U	0.086U
Nickel	5.4	4.7	4.4	7.8	6.5	5.3	5.7	3.6	6.4	4.7	4.1
Potassium	285	947	1360	1410	1060	1080	1540	570	1110	445	1180
Selenium	0.067	0.056U	0.055U	0.1	0.077	0.094	0.056U	0.063	0.14	0.053U	0.054U
Silver	0.52U	0.56U	0.55U	0.57U	0.55U	0.57U	0.56U	0.57U	0.54U	0.53U	0.54U
Sodium	70.8	98.8	210	45.6U	43.8U	142	194	184	68.5	85.9	255
Thallium	0.1U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U
Vanadium	15.4	6.5	23.8	18.6	12.6	11.3	15.5	10.6	15.6	7.4	9.8
Zinc	12.6	9.9	9.0	19.0	14.2	13.6	11.5	7.2	17.2	6	7.3
Cyanide, Total	0.51U	0.56U	0.55U	0.57U	0.55U	0.57U	0.55U	0.56U	0.54U	0.53U	0.54U
Petroleum Hydrocarbons	14400	16.9U	16.8	69.7	34.4	77.5	16.9	21.5	44.0	15.8U	16.2U
	(%)										
Solids, Total	95.7	88.5	90.4	87.8	91.3	87.3	90.0	88.2	92.4	94.7	92.7

Note:
- B = Analyte found in blank as well as in sample.
- U = Not Detected (Preceding value is the Method Detection Limit).
- J = Indicates an estimated value.
- UJ = The Analyte was not detected above the Method Detection Limit, but the Method Detection Limit is an Approximate value.

Table 6
Summary of Soil Analytical Results
for Soil Borings 14-16

Analytes	SB14-0101	SB14-0102	SB14-0115	SB15-0101	SB15-0109	SB15-0119	SB16-0101	SB16-0104	SB16-0110
VOAs (Method 8260A)	***Concentration (ug/kg)***								
Dichlorodifluoromethane	2.2U	2.3U	2.3U	2.3U	2.3U	2.4U	2.4U	2.5U	2.4U
Chloromethane	1.6U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.8U	1.7U
Vinyl Chloride	1.4U	1.4U	1.5U	1.4U	1.5U	1.5U	1.5U	1.6U	1.5U
Bromomethane	0.84U	0.87U	0.88U	0.87U	0.88U	0.89U	0.89U	0.96U	0.9U
Chloroethane	1.6U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.8U	1.7U
Trichlorofluoromethane	2.5U	2.6U	2.7U	2.6U	2.7U	2.7U	2.7U	2.9U	2.7U
1,1-Dichloroethene	1.4U	1.4U	1.5U	1.4U	1.5U	1.5U	1.5U	1.6U	1.5U
Methylene Chloride	2.6U	2.8U	2.8U	2.8U	2.8U	2.8U	2.8U	3U	2.8U
trans-1,2-Dichloroethene	0.69U	0.72U	0.73U	0.72U	0.73U	0.73U	0.73U	0.79U	0.74U
1,1-Dichloroethane	0.69U	0.72U	0.73U	0.72U	0.73U	0.73U	0.73U	0.79U	0.74U
Carbon Disulfide	1.6U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.8U	1.7U
2,2-Dichloropropane	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.5U	1.4U
cis-1,2-dichloroethene	0.74U	0.77U	0.78U	0.77U	0.78U	0.79U	0.79U	0.85U	0.79U
Bromochloromethane	0.87U	0.9U	0.92U	0.9U	0.92U	0.92U	0.92U	0.99U	0.93U
Chloroform	0.85U	0.88U	0.89U	0.88U	0.89U	0.90U	0.90U	0.97U	0.91U
1,1,1-Trichloroethane	0.54U	0.56U	0.57U	0.56U	0.57U	0.57U	0.57U	0.62U	0.58U
1,1-Dichloropropene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.2U	1.1U
Carbon Tetrachloride	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.2U	1.1U
Benzene	0.55U	0.57U	0.58U	0.57U	0.58U	0.58U	0.58U	0.63U	0.59U
1,2-Dichloroethane	0.86U	0.89U	0.91U	0.89U	0.91U	0.91U	0.91U	0.98U	0.92U
Trichloroethene	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.3U	1.2U
1,2-Dichloropropane	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.3U	1.2U
Bromodichloromethane	0.7U	0.73U	0.74U	0.73U	0.74U	0.74U	0.74U	0.80U	0.75U
Dibromomethane	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.2U	1.1U
cis-1,3-Dichloropropene	1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.2U	1.1U
Toluene	0.85U	0.88U	0.89U	0.88U	0.89U	0.90U	0.90U	0.97U	0.91U
trans-1,3-Dichloropropene	0.62U	0.65U	0.66U	0.65U	0.66U	0.66U	0.66U	0.72U	0.67U
1,1,2-Trichloroethane	0.86U	0.89U	0.91U	0.89U	0.91U	0.91U	0.91U	0.98U	0.92U
1,2-Dibromoethane	0.93U	0.97U	0.98U	0.97U	0.98U	0.99U	0.99U	1.1U	1U
Tetrachloroethene	0.83U	0.86U	0.87U	0.86U	0.87U	0.88U	0.88U	0.95U	0.88U
1,3-Dichloropropane	0.91U	0.95U	0.96U	0.95U	0.96U	0.97U	0.97U	1U	0.98U
Dibromochloromethane	0.61U	0.64U	0.65U	0.64U	0.65U	0.65U	0.65U	0.7U	0.66U
Chlorobenzene	0.6U	0.63U	0.64U	0.63U	0.64U	0.64U	0.64U	0.69U	0.65U
1,1,1,2-Tetrachloroethane	0.52U	0.54U	0.55U	0.54U	0.55U	0.55U	0.55U	0.59U	0.56U
Ethylbenzene	0.74U	0.77U	0.78U	0.77U	0.78U	0.79U	0.79U	0.85U	0.79U
m & p-Xylene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.2U	1.1U
o-Xylene	0.49U	0.51U	0.51U	0.51U	0.51U	0.52U	0.52U	0.56U	0.52U
Styrene	0.63U	0.66U	0.67U	0.66U	0.67U	0.67U	0.67U	0.73U	0.68U
2-Hexanone	4.6U	4.7U	4.8U	4.7U	4.8U	4.8U	4.8U	5.2U	4.9U
Bromoform	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.5U	1.4U
Isopropylbenzene	0.7U	0.73U	0.74U	0.73U	0.74U	0.74U	0.74U	0.80U	0.75U
1,1,2,2-Tetrachloroethane	2.3U	2.4U	2.5U	2.4U	2.5U	2.5U	2.5U	2.7U	2.5U

Table 6 (continued)
Summary of Soil Analytical Results
for Soil Borings 14-16

Analytes	SB14-0101	SB14-0102	SB14-0115	SB15-0101	SB15-0109	SB15-0119	SB16-0101	SB16-0104	SB16-0110
Bromobenzene	0.99U	1U	1.1U	1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2,3-Trichloropropane	2.1U	2.2U	2.2U	2.2U	2.2U	2.2U	2.2U	2.4U	2.3U
n-Propylbenzene	0.61U	0.64U	0.65U	0.64U	0.65U	0.65U	0.65U	0.7U	0.66U
2-Chlorotoluene	0.83U	0.86U	0.87U	0.86U	0.87U	0.88U	0.88U	0.95U	0.88U
4-Chlorotoluene	0.85U	0.88U	0.89U	0.88U	0.89U	0.90U	0.90U	0.97U	0.91U
1,3,5-Trimethylbenzene	0.53U	0.55U	0.56U	0.55U	0.56U	0.56U	0.56U	0.61U	0.57U
tert-Butylbenzene	0.57U	0.59U	0.6U	0.59U	0.6U	0.6IU	0.61U	0.65U	0.61U
1,2,4-Trimethylbenzene	0.74U	0.77U	0.78U	0.77U	0.78U	0.79U	0.79U	0.85U	0.79U
sec-Butylbenzene	0.67U	0.69U	0.7U	0.69U	0.7U	0.71U	0.71U	0.76U	0.71U
p-Isopropyltoluene	0.65U	0.67U	0.68U	0.67U	0.68U	0.69U	0.69U	0.74U	0.69U
1,3-Dichlorobenzene	0.97U	1U	1U	1U	1U	1U	1U	1.1U	1U
1,4-Dichlorobenzene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.2U	1.1U
1,2-Dichlorobenzene	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.5U	1.4U
n-Butylbenzene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.2U	1.1U
1,2-Dibromo-3-Chloropropane	2.6U	2.8U	2.8U	2.8U	2.8U	2.8U	2.8U	3U	2.8U
1,2,4-Trichlorobenzene	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.3U	1.2U
Hexachlorobutadiene	0.83U	0.86U	0.87U	0.86U	0.87U	0.88U	0.88U	0.95U	0.88U
Naphthalene	1.8U	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	2.1U	1.9U
1,2,3-Trichlorobenzene	1.4U	1.4U	1.5U	1.4U	1.5U	1.5U	1.5U	1.6U	1.5U
Acetone	9.1U	9.5U	9.6U	9.5U	9.6U	9.7U	9.7U	10.4U	9.8U
2-Butanone	8.3U	8.6U	8.8U	8.6U	8.8U	8.8U	8.8U	9.5U	8.9U
4-Methyl-2-Pentanone	3.8U	4U	4U	4U	4U	4U	4U	4.4U	4.1U
BNAs (Method 8270)	***Concentration (ug/kg)***								
Phenol	45.5U	47.3U	48.1U	47.3U	48.1U	48.4U	48.4U	52.1U	48.8U
Bis(-2-Chloroethyl)Ether	43.4U	45.1U	45.9U	45.1U	45.9U	46.1U	46.1U	49.7U	46.5U
2-Chlorophenol	44.4U	46.2U	47.0U	46.2U	47.0U	47.2U	47.2U	50.9U	47.5U
1,3-Dichlorobenzene	47.6U	49.5U	50.3U	49.5U	50.3U	50.6U	50.6U	54.5U	51.0U
1,4-Dichlorobenzene	44.4U	46.2U	47.0U	46.2U	47.0U	47.2U	47.2U	50.9U	47.6U
Benzyl Alcohol	42.3U	44.0U	44.7U	44.0U	44.7U	45.0U	45.0U	48.5U	45.4U
1,2-Dichlorobenzene	58.2U	60.5U	61.5U	60.5U	61.5U	61.9U	61.9U	66.7U	62.4U
2-Methylphenol	47.6U	49.5U	50.3U	49.5U	50.3U	50.6U	50.6U	54.5U	51.0U
Bis(2-Chloroisopropyl)Ether	51.9U	53.9U	54.8U	53.9U	54.8U	55.1U	55.1U	59.4U	55.6U
4-Methylphenol	45.5U	47.3U	48.1U	47.3U	48.1U	48.4U	48.4U	52.1U	48.8U
N-Nitroso-Di-N-Propylamine	48.7U	50.6U	51.5U	50.6U	51.5U	51.7U	51.7U	55.8U	52.2U
Hexachloroethane	51.9U	53.9U	54.8U	53.9U	54.8U	55.1U	55.1U	59.4U	55.6U
Nitrobenzene	37.0U	38.5U	39.1U	38.5U	39.1U	39.4U	39.4U	42.4U	39.7U
Isophorone	29.6U	30.8U	31.3U	30.8U	31.3U	31.5U	31.5U	33.9U	31.7U
2-Nitrophenol	41.3U	42.9U	43.6U	42.9U	43.6U	43.9U	43.9U	47.3U	44.2U
2,4-Dimethylphenol	34.9U	36.3U	36.9U	36.3U	36.9U	37.1U	37.1U	40.0U	37.4U
Benzoic Acid	86.8U	90.2U	91.7U	90.2U	91.7U	92.2U	92.2U	99.4U	93.0U
Bis(-2-Chloroethoxy)Methane	40.2U	41.8U	42.5U	41.8U	42.5U	42.7U	42.7U	46.1U	43.1U
2,4-Dichlorophenol	46.6U	48.4U	49.2U	48.4U	49.2U	49.5U	49.5U	53.3U	49.9U
1,2,4-Trichlorobenzene	40.2U	41.8U	42.5U	41.8U	42.5U	42.7U	42.7U	46.1U	43.1U

Table 6 (continued)
Summary of Soil Analytical Results
for Soil Borings 14-16

Analytes	SB14-0101	SB14-0102	SB14-0115	SB15-0101	SB15-0109	SB15-0119	SB16-0101	SB16-0104	SB16-0110
Naphthalene	40.2U	41.8U	42.5U	41.8U	42.5U	42.7U	42.7U	46.1U	43.1U
4-Chloroaniline	146U	152U	154U	152U	154U	155U	155U	167U	156U
Hexachlorobutadiene	43.4U	45.1U	45.9U	45.1U	45.9U	46.1U	46.1U	49.7U	46.5U
4-Chloro-3-Methylphenol	38.1U	39.6U	40.3U	39.6U	40.3U	40.5U	40.5U	43.6U	40.8U
2-Methylnaphthalene	38.1U	39.6U	40.3U	39.6U	40.3U	40.5U	40.5U	43.6U	40.8U
Hexachlorocyclopentadiene	36.0U	37.4U	38.0U	37.4U	38.0U	38.2U	38.2U	41.2U	38.5U
2,4,6-Trichlorophenol	34.9U	36.3U	36.9U	36.3U	36.9U	37.1U	37.1U	40.0U	37.4U
2,4,5-Trichlorophenol	39.2U	40.7U	41.4U	40.7U	41.4U	41.6U	41.6U	44.8U	42.0U
2-Chloronaphthalene	37.0U	38.5U	39.1U	38.5U	39.1U	39.4U	39.4U	42.4U	39.7U
2-Nitroaniline	27.5U	28.6U	29.1U	28.6U	29.1U	29.2U	29.2U	31.5U	29.5U
Dimethyl Phthalate	32.8U	34.1U	34.7U	34.1U	34.7U	34.9U	34.9U	37.6U	35.1U
Acenaphthylene	41.3U	42.9U	43.6U	42.9U	43.6U	43.9U	43.9U	47.3U	44.2U
2,6-Dinitrotoluene	33.9U	35.2U	35.8U	35.2U	35.8U	36.0U	36.0U	38.8U	36.3U
3-Nitroaniline	82.5U	85.8U	87.2U	85.8U	87.2U	87.7U	87.7U	94.5U	88.4U
Acenaphthene	33.9U	35.2U	35.8U	35.2U	35.8U	36.0U	36.0U	38.8U	36.3U
2,4-Dinitrophenol	31.7U	33.0U	33.6U	33.0U	33.6U	33.7U	33.7U	36.4U	34.0U
4-Nitrophenol	49.7U	51.7U	52.6U	51.7U	52.6U	52.9U	52.9U	57.0U	53.3U
Dibenzofuran	36.0U	37.4U	38.0U	37.4U	38.0U	38.2U	38.2U	41.2U	38.5U
2,4-Dinitrotoluene	31.7U	33.0U	33.6U	33.0U	33.6U	33.7U	33.7U	36.4U	34.0U
Diethylphthalate	38.1U	39.6U	40.3U	39.6U	40.3U	40.5U	40.5U	43.6U	40.8U
4-Chlorophenyl-Phenylether	36.0U	37.4U	38.0U	37.4U	38.0U	38.2U	38.2U	41.2U	38.5U
Fluorene	37.0U	38.5U	39.1U	38.5U	39.1U	39.4U	39.4U	42.4U	39.7U
4-Nitroaniline	62.4U	64.9U	66.0U	64.9U	66.0U	66.4U	66.4U	71.5U	66.9U
4,6-Dinitro-2-Methylphenol	48.7U	50.6U	51.5U	50.6U	51.5U	51.7U	51.7U	55.8U	52.2U
N-Nitrosodiphenylamine	41.3U	42.9U	43.6U	42.9U	43.6U	43.9U	43.9U	47.3U	44.2U
4-Bromophenyl-Phenylether	37.0U	38.5U	39.1U	38.5U	39.1U	39.4U	39.4U	42.4U	39.7U
Phenanthrene	31.7U	33.0U	33.6U	33.0U	33.6U	33.7U	33.7U	129 J	34.0U
Hexachlorobenzene	32.8U	34.1U	34.7U	34.1U	34.7U	34.9U	34.9U	37.6U	35.1U
Pentachlorophenol	59.3U	61.6U	62.6U	61.6U	62.6U	63.0U	63.0U	67.9U	63.5U
Anthracene	30.7U	31.9U	32.4U	31.9U	32.4U	32.6U	32.6	35.2U	32.9U
Di-N-Butylphthalate	23.3U	24.2U	24.6U	24.2U	24.6U	24.7U	24.7U	26.7U	24.9U
Fluoranthene	29.6U	30.8U	31.3U	30.8U	31.3U	31.5U	31.5U	226 J	31.7U
Pyrene	29.6U	30.8U	31.3U	30.8U	31.3U	31.5U	31.5U	186 J	31.7U
Butylbenzylphthalate	31.7U	33.0U	33.6U	33.0U	33.6U	33.7U	33.7U	36.4U	74.5 J
3,3'-Dichlorobenzidine	250U	260U	264U	260U	264U	265U	265U	286U	268U
Benzo(a)Anthracene	25.4U	26.4U	26.8U	26.4U	26.8U	27.0U	27.0U	84.4 J	27.2U
Chrysene	26.5U	27.5U	28.0U	27.5U	28.0U	28.1U	28.1U	99.2 J	28.3U
Bis(2-Ethylhexyl)Phthalate	32.8U	34.1U	34.7U	34.1U	34.7U	34.9U	34.9U	37.6	35.1U
Di-N-Octyl Phthalate	29.6U	30.8U	31.3U	30.8U	31.3U	31.5U	31.5U	33.9U	31.7U
Benzo(b)Fluoranthene	56.1U	58.3U	59.3U	58.3U	59.3U	59.6U	59.6U	93.9 J	60.1U
Benzo(k)Fluoranthene	69.8U	72.6U	73.8U	72.6U	73.8U	74.2U	74.2U	347 J	74.8U
Benzo(a)Pyrene	30.7U	31.9U	32.4U	31.9U	32.4U	32.6U	32.6U	90.3 J	32.9U
Indeno(1,2,3-cd)Pyrene	34.9U	36.3U	36.9U	36.3U	36.9U	37.1U	37.1U	40.0U	37.4U

Table 6 (continued)
Summary of Soil Analytical Results
for Soil Borings 14-16

Analytes	SB14-0101	SB14-0102	SB14-0115	SB15-0101	SB15-0109	SB15-0119	SB16-0101	SB16-0104	SB16-0110
Dibenzo(a,h)Anthracene	32.8U	34.1U	34.7U	34.1U	34.7U	34.9U	34.9U	37.6U	35.1U
Inorganics	***Concentrations (mg/kg)***								
Aluminum	3530	6800	4650	3620	2620	2920	6550	3750	3100
Antimony	3.7 J	4.2 J	3 J	3.2 J	2.2UJ	2.2UJ	3.4 J	3.8 J	2.9 J
Arsenic	1.4	1.8	3.3	1.7	1.7	1.7	1.8	2.5	1.3
Barium	68.4	56.8	192	90.0	219	215	73.6	319	518
Beryllium	0.36	0.54	0.38	0.39	0.3	0.28	0.53	0.36	0.3
Cadmium	0.53U	0.55U	0.56U	0.55U	0.56U	0.56U	0.56U	0.61U	0.57U
Calcium	2950	1580	198000	7280	88600	181000	2120	191000	139000
Chromium	5.7	7.7	5.3	5.2	3.3	2.9	7.9	3.6	3.3
Cobalt	2.9	3.4	2.3	3.3	2.4	1.8	3.8	2.4	2.7
Copper	5.3	5.1	2.9	5.6	2.7	2.2	5.4	2.5	2.4
Iron	5260	7490	3870	4900	3160	2540	7830	3270	2780
Lead	21.5	6.9	3.2	7.6	3.1	2.6	7.2	3.1	2.9
Magnesium	702	1230	4950	826	1560	3740	1060	2700	2730
Manganese	137	97.6	29.7	165	66.4	28.1	133	38.9	37.7
Mercury	0.085U	0.088U	0.089U	0.088U	0.089U	0.090U	0.090U	0.097U	0.091U
Nickel	5.3	7	5.5	5.1	4.2	3.7	7.1	5	4.5
Potassium	897	1350	1480	945	715	864	1290	710	873
Selenium	0.083 J	0.055UJ	0.056UJ	0.055UJ	0.056UJ	0.056UJ	0.11 J	0.091 J	0.074 J
Silver	0.53U	0.55U	0.56U	0.55U	0.56U	0.56U	0.56U	0.61U	0.57U
Sodium	100	57.4	281	82.7	88.4	135	79.7	146	135
Thallium	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.12U	0.11U
Vanadium	12.9	15.4	18.0	13.0	11.1	12.5	17.0	10.1	10.0
Zinc	11.9	14.5	8.7	11.9	8.3	6	15.4	10.0	7.3
Cyanide, Total	0.53U	0.54U	0.55U	0.55U	0.55U	0.55U	0.56U	0.61U	0.57U
Petroleum Hydrocarbons	1040	17.6	17.9	185	16.8U	16.9U	43.9	216	82.8
	(%)								
Solids, Total	94.5	90.9	89.4	90.9	89.4	88.9	88.9	82.5	88.2

Note:
- B = Analyte found in blank as well as in sample.
- U = Not Detected (Preceding value is the Method Detection Limit).
- J = Indicates an estimated value.
- UJ = The Analyte was not detected above the Method Detection Limit, but the Method Detection Limit is an Approximate value.

Table 7
Summary of Soil Analytical Results
for Soil Boring 17

Analytes	SB17-0101	SB17-0109	SB17-0119	SB17-0129	SB17-0139	SB17-0145	SB17-0159
VOAs (Method 8260A)	***Concentration (µg/kg)***						
Dichlorodifluoromethane	2.4U	2.5U	2.3U	2.3U	2.3U	2.3U	2.3U
Chloromethane	1.7U	1.8U	1.7U	1.7U	1.6U	1.6U	1.6U
Vinyl Chloride	1.5U	1.5U	1.4U	1.4U	1.4U	1.4U	1.4U
Bromomethane	0.9U	0.93U	0.87U	0.87U	0.87U	0.85U	0.86U
Chloroethane	1.7U	1.8U	1.7U	1.7U	1.6U	1.6U	1.6U
Trichlorofluoromethane	2.7U	2.8U	2.7U	2.7U	2.6U	2.6U	2.6U
1,1-Dichloroethene	1.5U	1.5U	1.4U	1.4U	1.4U	1.4U	1.4U
Methylene Chloride	2.9U	2.9U	2.8U	2.8U	2.7U	2.7U	2.7U
trans-1,2-Dichloroethene	0.74U	0.76U	0.72U	0.72U	0.71U	0.7U	0.71U
1,1-Dichloroethane	0.74U	0.76U	0.72U	0.72U	0.71U	0.7U	0.71U
Carbon Disulfide	1.7U	1.8U	1.7U	1.7U	1.6U	1.6U	1.6U
2,2-Dichloropropane	1.4U	1.4U	1.3U	1.3U	1.3U	1.3U	1.3U
cis-1,2-dichloroethene	0.8U	0.82U	0.77U	0.77U	0.77U	0.75U	0.76U
Bromochloromethane	0.94U	0.96U	0.91U	0.91U	0.9U	0.88U	0.89U
Chloroform	0.92U	0.94U	0.88U	0.88U	0.88U	0.86U	0.87U
1,1,1-Trichloroethane	0.58U	0.6U	0.56U	0.56U	0.56U	0.55U	0.55U
1,1-Dichloropropene	1.1U	1.2U	1.1U	1.1U	1.1U	1.1U	1.1U
Carbon Tetrachloride	1.1U	1.2U	1.1U	1.1U	1.1U	1.1U	1.1U
Benzene	0.6U	0.61U	0.57U	0.57U	0.57U	0.56U	0.57U
1,2-Dichloroethane	0.93U	0.95U	0.9U	0.9U	0.89U	0.87U	0.88U
Trichloroethene	1.3U	1.3U	1.2U	1.2U	1.2U	1.2U	1.2U
1,2-Dichloropropane	1.3U	1.3U	1.2U	1.2U	1.2U	1.2U	1.2U
Bromodichloromethane	0.76U	0.77U	0.73U	0.73U	0.72U	0.71U	0.72U
Dibromomethane	1.1U	1.1U	1.1U	1.1U	1.1U	1U	1U
cis-1,3-Dichloropropene	1.1U	1.1U	1.1U	1.1U	1.1U	1U	1.1U
Toluene	0.92U	0.94U	0.88U	0.88U	0.88U	0.86U	0.87U
trans-1,3-Dichloropropene	0.68U	0.69U	0.65U	0.65U	0.65U	0.63U	0.64U
1,1,2-Trichloroethane	0.93U	0.95U	0.9U	0.9U	0.89U	0.87U	0.88U
1,2-Dibromoethane	1U	1U	0.97U	0.97U	0.96U	0.94U	0.96U
Tetrachloroethene	0.89U	0.92U	0.86U	0.86U	0.85U	0.84U	0.85U
1,3-Dichloropropane	0.99U	1U	0.95U	0.95U	0.94U	0.92U	0.94U
Dibromochloromethane	0.66U	0.68U	0.64U	0.64U	0.64U	0.62U	0.63U
Chlorobenzene	0.65U	0.67U	0.63U	0.63U	0.62U	0.61U	0.62U
1,1,1,2-Tetrachloroethane	0.56U	0.58U	0.54U	0.54U	0.54U	0.53U	0.53U
Ethylbenzene	0.8U	0.82U	0.77U	0.77U	0.77U	0.75U	0.76U
m & p-Xylene	1.1U	1.2U	1.1U	1.1U	1.1U	1.1U	1.1U
o-Xylene	0.53U	0.54U	0.51U	0.51U	0.5U	0.49U	0.5U
Styrene	0.69U	0.7U	0.66U	0.66U	0.66U	0.64U	0.65U
2-Hexanone	4.9U	5U	4.8U	4.8U	4.7U	4.6U	4.7U

Table 7 (continued)
Summary of Soil Analytical Results
for Soil Boring 17

Analytes	SB17-0101	SB17-0109	SB17-0119	SB17-0129	SB17-0139	SB17-0145	SB17-0159
Bromoform	1.4U	1.4U	1.3U	1.3U	1.3U	1.3U	1.3U
Isopropylbenzene	0.76U	0.77U	0.73U	0.73U	0.72U	0.71U	0.72U
1,1,2,2-Tetrachloroethane	2.5U	2.6U	2.4U	2.4U	2.4U	2.4U	2.4U
Bromobenzene	1.1U	1.1U	1U	1U	1U	1U	1U
1,2,3-Trichloropropane	2.3U	2.3U	2.2U	2.2U	2.2U	2.1U	2.2U
n-Propylbenzene	0.66U	0.68U	0.64U	0.64U	0.64U	0.62U	0.63U
2-Chlorotoluene	0.89U	0.92U	0.86U	0.86U	0.85U	0.84U	0.85U
4-Chlorotoluene	0.92U	0.94U	0.88U	0.88U	0.88U	0.86U	0.87U
1,3,5-Trimethylbenzene	0.57U	0.59U	0.55U	0.55U	0.55U	0.54U	0.54U
tert-Butylbenzene	0.62U	0.63U	0.6U	0.6U	0.59U	0.58U	0.59U
1,2,4-Trimethylbenzene	0.8U	0.82U	0.77U	0.77U	0.77U	0.75U	0.76U
sec-Butylbenzene	0.72U	0.74U	0.7U	0.7U	0.69U	0.68U	0.69U
p-Isopropyltoluene	0.7U	0.72U	0.67U	0.67U	0.67U	0.65U	0.66U
1,3-Dichlorobenzene	1.1U	1.1U	1U	1U	1U	0.99U	1U
1,4-Dichlorobenzene	1.1U	1.2U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dichlorobenzene	1.4U	1.4U	1.3U	1.3U	1.3U	1.3U	1.3U
n-Butylbenzene	1.1U	1.2U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dibromo-3-Chloropropane	2.9U	2.9U	2.8U	2.8U	2.7U	2.7U	2.7U
1,2,4-Trichlorobenzene	1.3U	1.3U	1.2U	1.2U	1.2U	1.2U	1.2U
Hexachlorobutadiene	0.89U	0.92U	0.86U	0.86U	0.85U	0.84U	0.85U
Naphthalene	1.9U	2.0U	1.9U	1.9U	1.9U	1.8U	1.8U
1,2,3-Trichlorobenzene	1.5U	1.5U	1.4U	1.4U	1.4U	1.4U	1.4U
Acetone	9.9U	10.1U	9.5U	9.5U	9.4U	9.2U	21.8 J
2-Butanone	9.0U	9.2U	8.7U	8.7U	8.6U	8.4U	8.6U
4-Methyl-2-Pentanone	4.1U	4.2U	4U	4U	3.9U	3.9U	3.9U
BNAs (Method 8270)	***Concentration (µg/kg)***						
Phenol	49.3U	50.5U	47.5U	47.5U	47.1U	46.1U	46.8U
Bis(-2-Chloroethyl)Ether	47.0U	48.1U	45.3U	45.3U	44.9U	44.0U	44.6U
2-Chlorophenol	48.1U	49.3U	46.4U	46.4U	46.0U	45.1U	45.7U
1,3-Dichlorobenzene	51.5U	52.8U	49.7U	49.7U	49.3U	48.3U	49.0U
1,4-Dichlorobenzene	48.1U	49.3U	46.4U	46.4U	46.0U	45.1U	45.7U
Benzyl Alcohol	45.8U	46.9U	44.2U	44.2U	43.8U	42.9U	43.5U
1,2-Dichlorobenzene	63.0U	64.6U	60.8U	60.8U	60.2U	59.0U	59.8U
2-Methylphenol	51.5U	52.8U	49.7U	49.7U	49.3U	48.3U	49.0U
Bis(2-Chloroisopropyl)Ether	56.1U	57.5U	54.1U	54.1U	53.7U	52.6U	53.3U
4-Methylphenol	49.3U	50.5U	47.5U	47.5U	47.1U	46.1U	46.8U
N-Nitroso-Di-N-Propylamine	52.7U	54.0U	50.8U	50.8U	50.4U	49.4U	50.1U
Hexachloroethane	56.1U	57.5U	54.1U	54.1U	53.7U	52.6U	53.3U
Nitrobenzene	40.1U	41.1U	38.7U	38.7U	38.3U	37.6U	38.1U
Isophorone	32.1U	32.9U	30.9U	30.9U	30.7U	30.0U	30.5U
2-Nitrophenol	44.7U	45.8U	43.1U	43.1U	42.7U	41.8U	42.4U
2,4-Dimethylphenol	37.8U	38.7U	36.5U	36.5U	36.1U	35.4U	35.9U
Benzoic Acid	93.9U	96.2U	90.6U	90.6U	89.8U	88.0U	89.2U

Table 7 (continued)
Summary of Soil Analytical Results
for Soil Boring 17

Analytes	SB17-0101	SB17-0109	SB17-0119	SB17-0129	SB17-0139	SB17-0145	SB17-0159
Bis(-2-Chloroethoxy)Methane	43.5U	44.6U	42.0U	42.0U	41.6U	40.8U	41.3U
2,4-Dichlorophenol	50.4U	51.6U	48.6U	48.6U	48.2U	47.2U	47.9U
1,2,4-Trichlorobenzene	43.5U	44.6U	42.0U	42.0U	41.6U	40.8U	41.3U
Naphthalene	43.5U	44.6U	42.0U	42.0U	41.6U	40.8U	41.3U
4-Chloroaniline	158U	162U	152U	152U	151U	148U	150U
Hexachlorobutadiene	47.0U	48.1U	45.3U	45.3U	44.9U	44.0U	44.6U
4-Chloro-3-Methylphenol	41.2U	42.3U	39.8U	39.8U	39.4U	38.6U	39.2U
2-Methylnaphthalene	41.2U	42.3U	39.8U	39.8U	39.4U	38.6U	39.2U
Hexachlorocyclopentadiene	38.9U	39.9U	37.6U	37.6U	37.2U	36.5U	37.0U
2,4,6-Trichlorophenol	37.8U	38.7U	36.5U	36.5U	36.1U	35.4U	35.9U
2,4,5-Trichlorophenol	42.4U	43.4U	40.9U	40.9U	40.5U	39.7U	40.3U
2-Chloronaphthalene	40.1U	41.1U	38.7U	38.7U	38.3U	37.6U	38.1U
2-Nitroaniline	29.8U	30.5U	28.7U	28.7U	28.5U	27.9U	28.3U
Dimethyl Phthalate	35.5U	36.4U	34.3U	34.3U	34.0U	33.3U	33.7U
Acenaphthylene	44.7U	45.8U	43.1U	43.1U	42.7U	41.8U	44.4U
2,6-Dinitrotoluene	36.7U	37.6U	35.4U	35.4U	35.0U	34.3U	34.8U
3-Nitroaniline	89.3U	91.5U	86.2U	86.2U	85.4U	83.7U	84.9U
Acenaphthene	36.7U	37.6U	35.4U	35.4U	35.0U	34.3U	34.8U
2,4-Dinitrophenol	34.4U	35.2U	33.1U	33.1U	32.9U	32.3U	32.6U
4-Nitrophenol	53.8U	55.2U	51.9U	51.9U	51.5U	50.4U	51.1U
Dibenzofuran	38.9U	39.9U	37.6U	37.6U	37.2U	36.5U	37.0U
2,4-Dinitrotoluene	34.4U	35.2U	33.1U	33.1U	32.9U	32.2U	32.6U
Diethylphthalate	41.2U	42.3U	39.8U	39.8U	39.4U	38.6U	39.2U
4-Chlorophenyl-Phenylether	38.9U	39.9U	37.6U	37.6U	37.2U	36.5U	37.0U
Fluorene	40.1U	41.1U	38.7U	38.7U	38.3U	37.6U	38.1U
4-Nitroaniline	67.6U	69.2U	65.2U	65.2U	64.6U	63.3U	64.2U
4,6-Dinitro-2-Methylphenol	52.7U	54.0U	50.8U	50.8U	50.4U	49.4U	50.1U
N-Nitrosodiphenylamine	44.7U	45.8U	43.1U	43.1U	42.7U	41.8U	42.4U
4-Bromophenyl-Phenylether	40.1U	41.1U	38.7U	38.7U	38.3U	37.6U	38.1U
Phenanthrene	34.4U	35.2U	33.1U	33.1U	32.9U	32.2U	83.3 J
Hexachlorobenzene	35.5U	36.4U	34.3U	34.3U	34.0U	33.3U	33.7U
Pentachlorophenol	64.1U	65.7U	61.9U	61.9U	61.3U	60.1U	60.9U
Anthracene	33.2U	34.0U	32.0U	32.0U	31.8U	31.1U	31.6U
Di-N-Butylphthalate	101 J	28.8 J	24.4 J	24.3U	24.1U	23.6U	23.9U
Fluoranthene	32.1U	32.9U	30.9U	30.9U	30.7U	30.0U	141 J
Pyrene	32.1U	32.9U	30.9U	30.9U	30.7U	30.0U	115 J
Butylbenzylphthalate	34.4U	35.2U	33.1U	33.1U	32.9U	32.2U	32.6U
3,3'-Dichlorobenzidine	270U	277U	261U	261U	258U	253U	257U
Benzo(a)Anthracene	27.5U	28.2U	26.5U	26.5U	26.3U	26.8U	53.6 J
Chrysene	28.6U	29.3U	27.6U	27.6U	27.4U	26.8U	60.1 J
Bis(2-Ethylhexyl)Phthalate	35.5U	36.4U	34.3U	142 J	34.0U	33.3U	201 J
Di-N-Octyl Phthalate	32.1U	32.9U	30.9U	30.9U	30.7U	30.0U	30.5U
Benzo(b)Fluoranthene	60.7U	62.2U	58.6U	58.6U	58.1U	56.9U	57.7U

Table 7 (continued)
Summary of Soil Analytical Results
for Soil Boring 17

Analytes	SB17-0101	SB17-0109	SB17-0119	SB17-0129	SB17-0139	SB17-0145	SB17-0159
Benzo(k)Fluoranthene	75.6U	77.5U	72.9U	72.9U	72.3U	70.8U	71.8U
Benzo(a)Pyrene	33.2U	34.0U	32.0U	32.0U	31.8U	31.1U	64.7 J
Indeno(1,2,3-cd)Pyrene	37.8U	38.7U	36.5U	36.5U	36.1U	35.4U	35.9U
Dibenzo(a,h)Anthracene	35.5U	36.4U	34.3U	34.3U	34.0U	33.3U	33.7U
Inorganics	***Concentration (mg/kg)***						
Aluminum	9190	2240	3610	4190	3530	4700	5970
Antimony	6.2	2.4	4.5	3.3	2.5	3.7	5.8
Arsenic	1.8	0.97	1.3	0.66	0.6	0.76	0.87
Barium	160	91.8	89.5	112	58.7	64.2	108
Beryllium	0.61	0.2	0.29	0.22	0.19	0.26	0.27
Cadmium	0.57U	0.59U	0.55U	0.55U	0.55U	0.54U	0.54U
Calcium	3280	221000	65800	169000	71500	52200	53200
Chromium	9.8	2.4	4.1	5.5	3.5	7.3	20.9
Cobalt	5.4	1.7	1.9	1.5	1.5	1.5	2.4
Copper	8.4	1.6	2.5	2	1.1	2.1	4.1
Iron	10100	1830	3720	2890	2740	4680	7520
Lead	7.3	1	2.7	1	1.2	1.4	2.1
Magnesium	1600	2130	2070	3670	4200	2740	5300
Manganese	262	18.8	52.2	28.6	29.3	41.6	87.7
Mercury	0.092U	0.094U	0.088U	0.088U	0.088U	0.086U	0.087U
Nickel	8.3	3.3	4.6	4.1	3.8	4.2	6.5
Potassium	1730	604	1130	805	685	1170	1390
Selenium	0.29U	0.29U	0.28U	0.28U	0.27U	0.27U	0.27U
Silver	0.57U	0.59U	0.55U	0.55U	0.55U	0.54U	0.54U
Sodium	84.2	122	119	171	129	159	187
Thallium	0.11U	0.12U	0.11U	0.11U	0.11U	0.11U	0.11U
Vanadium	17.5	4.2	11.8	9.7	16.9	9.2	12.4
Zinc	24.4	7.9	10.2	8.2	7.4	7.4	21.2
Cyanide, Total	0.57U	0.6U	0.56U	0.55U	0.55U	0.54U	0.55U
Petroleum Hydrocarbons	583	20.4	18.0	18.0	19.0	37.8	270
	(%)						
Solids, Total	87.3	85.2	90.5	90.5	91.3	93.2	91.9

Note: U = Not Detected (Preceding value is the Method Detection Limit).
J = Indicates an estimated value.

Table 8
Summary of Soil Analytical Results
for Soil Boring 18

Analytes	SB18-0101	SB18-0109	SB18-0119	SB18-0124	SB18-0133	SB18-0143	SB18-0159
VOAs (Method 8260A)	***Concentration (µg/kg)***						
Dichlorodifluoromethane	2.4U	2.4U	2.3U	2.3U	2.3U	2.2U	2.3U
Chloromethane	1.7U	1.7U	1.7U	1.7U	1.6U	1.6U	1.6U
Vinyl Chloride	1.5U	1.5U	1.4U	1.4U	1.4U	1.4U	1.4U
Bromomethane	0.89U	0.89U	0.87U	0.88U	0.86U	0.84U	0.85U
Chloroethane	1.7U	1.7U	1.7U	1.7U	1.6U	1.6U	1.6U
Trichlorofluoromethane	2.7U	2.7U	2.7U	2.7U	2.6U	2.6U	2.6U
1,1-Dichloroethene	1.5U	1.5U	1.4U	1.4U	1.4U	1.4U	1.4U
Methylene Chloride	2.8U	2.8U	2.8U	2.8U	2.7U	2.7U	2.7U
trans-1,2-Dichloroethene	0.73U	0.73U	0.72U	0.72U	0.71U	0.69U	0.70U
1,1-Dichloroethane	0.73U	0.73U	0.72U	0.72U	0.71U	0.69U	0.70U
Carbon Disulfide	1.7U	1.7U	1.7U	1.7U	1.6U	1.6U	1.6U
2,2-Dichloropropane	1.3U	1.4U	1.3U	1.3U	1.3U	1.3U	1.3U
cis-1,2-dichloroethene	0.79U	0.79U	0.77U	0.78U	0.77U	0.75U	0.75U
Bromochloromethane	0.92U	0.92U	0.91U	0.91U	0.9U	0.87U	0.88U
Chloroform	0.9U	0.9U	0.88U	0.89U	0.87U	0.85U	0.86U
1,1,1-Trichloroethane	0.57U	0.57U	0.56U	0.57U	0.56U	0.54U	0.55U
1,1-Dichloropropene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Carbon Tetrachloride	1.1U	1.1U	1.1U	1.1U	1.1U	1U	1.1U
Benzene	0.58U	0.59U	0.57U	0.58U	0.57U	0.55U	0.56U
1,2-Dichloroethane	0.91U	0.91U	0.9U	0.9U	0.89U	0.86U	0.87U
Trichloroethene	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U
1,2-Dichloropropane	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U
Bromodichloromethane	0.74U	0.74U	0.73U	0.73U	0.72U	0.7U	0.71U
Dibromomethane	1.1U	1.1U	1.1U	1.1U	1U	1U	1U
cis-1,3-Dichloropropene	1.1U	1.1U	1.1U	1.1U	1.1U	1U	1U
Toluene	0.9U	0.9U	0.88U	0.89U	0.87U	0.85U	0.86U
trans-1,3-Dichloropropene	0.66U	0.66U	0.65U	0.66U	0.64U	0.63U	0.64U
1,1,2-Trichloroethane	0.91U	0.91U	0.9U	0.9U	0.89U	0.86U	0.87U
1,2-Dibromoethane	0.99U	0.99U	0.97U	0.98U	0.96U	0.94U	0.95U
Tetrachloroethene	0.88U	0.88U	0.86U	0.87U	0.85U	0.83U	0.84U
1,3-Dichloropropane	0.97U	0.97U	0.95U	0.96U	0.94U	0.92U	0.93U
Dibromochloromethane	0.65U	0.65U	0.64U	0.65U	0.63U	0.62U	0.62U
Chlorobenzene	0.64U	0.64U	0.63U	0.63U	0.62U	0.61U	0.61U
1,1,1,2-Tetrachloroethane	0.55U	0.55U	0.54U	0.55U	0.54U	0.52U	0.53U
Ethylbenzene	0.79U	0.79U	0.77U	0.78U	0.77U	0.75U	0.75U
m & p-Xylene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
o-Xylene	0.52U	0.52U	0.51U	0.51U	0.5U	0.49U	0.5U
Styrene	0.67U	0.68U	0.66U	0.67U	0.66U	0.64U	0.65U
2-Hexanone	4.8U	4.8U	4.8U	4.8U	4.7U	4.6U	4.6U

Table 8 (continued)
Summary of Soil Analytical Results
for Soil Boring 18

Analytes	SB18-0101	SB18-0109	SB18-0119	SB18-0124	SB18-0133	SB18-0143	SB18-0159
Bromoform	1.3U	1.4U	1.3U	1.3U	1.3U	1.3U	1.3U
Isopropylbenzene	0.74U	0.74U	0.73U	0.73U	0.72U	0.7U	0.71U
1,1,2,2-Tetrachloroethane	2.5U	2.5U	2.4U	2.4U	2.4U	2.3U	2.4U
Bromobenzene	1.1U	1.1U	1U	1U	1U	1U	1U
1,2,3-Trichloropropane	2.2U	2.3U	2.2U	2.2U	2.2U	2.1U	2.2U
n-Propylbenzene	0.65U	0.65U	0.64U	0.65U	0.63U	0.62U	0.62U
2-Chlorotoluene	0.88U	0.88U	0.86U	0.87U	0.85U	0.83U	0.84U
4-Chlorotoluene	0.9U	0.9U	0.88U	0.89U	0.87U	0.85U	0.86U
1,3,5-Trimethylbenzene	0.56U	0.56U	0.55U	0.56U	0.55U	0.53U	0.54U
tert-Butylbenzene	0.61U	0.61U	0.6U	0.6U	0.59U	0.58U	0.58U
1,2,4-Trimethylbenzene	0.79U	0.79U	0.77U	0.78U	0.77U	0.75U	0.75U
sec-Butylbenzene	0.71U	0.71U	0.7U	0.7U	0.69U	0.67U	0.68U
p-Isopropyltoluene	0.69U	0.69U	0.67U	0.68U	0.67U	0.65U	0.66U
1,3-Dichlorobenzene	1U	1U	1U	1U	1U	0.98U	0.99U
1,4-Dichlorobenzene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dichlorobenzene	1.3U	1.4U	1.3U	1.3U	1.3U	1.3U	1.3U
n-Butylbenzene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dibromo-3-Chloropropane	2.8U	2.8U	2.8U	2.8U	2.7U	2.7U	2.7U
1,2,4-Trichlorobenzene	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U
Hexachlorobutadiene	0.88U	0.88U	0.86U	0.87U	0.85U	0.83U	0.84U
Naphthalene	1.9U	1.9U	1.9U	1.9U	1.9U	1.8U	1.8U
1,2,3-Trichlorobenzene	1.5U	1.5U	1.4U	1.4U	1.4U	1.4U	1.4U
Acetone	9.7U	9.7U	9.5U	9.6U	9.4U	9.2U	9.3U
2-Butanone	8.8U	8.9U	8.7U	8.7U	8.6U	8.4U	8.5U
4-Methyl-2-Pentanone	4U	4.1U	4U	4U	3.9U	3.8U	3.9U
BNAs (Method 8270)	***Concentration (µg/kg)***						
Phenol	48.3U	48.5U	47.5U	47.8U	47.0U	45.8U	46.3U
Bis(-2-Chloroethyl)Ether	46.1U	46.2U	45.3U	45.6U	44.8U	43.7U	44.1U
2-Chlorophenol	47.2U	47.4U	46.4U	46.7U	45.9U	44.8U	45.2U
1,3-Dichlorobenzene	50.6U	50.7U	49.7U	50.1U	49.2U	48.0U	48.4U
1,4-Dichlorobenzene	47.2U	47.4U	46.4U	46.7U	45.9U	44.8U	45.2U
Benzyl Alcohol	44.9U	45.1U	44.2U	44.5U	43.7U	42.6U	43.1U
1,2-Dichlorobenzene	61.8U	62.0U	60.8U	61.2U	60.1U	58.6U	59.2U
2-Methylphenol	50.6U	50.7U	49.7U	50.1U	49.2U	48.0U	48.4U
Bis(2-Chloroisopropyl)Ether	55.1U	55.2U	54.1U	54.5U	53.6U	52.2U	52.7U
4-Methylphenol	48.3U	48.5U	47.5U	47.8U	47.0U	45.8U	46.3U
N-Nitroso-Di-N-Propylamine	51.7U	51.9U	50.8U	51.2U	50.3U	49.0U	49.5U
Hexachloroethane	55.1U	55.2U	54.1U	54.5U	53.6U	52.2U	52.7U
Nitrobenzene	39.3U	39.5U	38.7U	38.9U	38.3U	37.3U	37.7U
Isophorone	31.5U	31.6U	30.9U	31.1U	30.6U	29.9U	30.1U
2-Nitrophenol	43.8U	44.0U	43.1U	43.4U	42.6U	41.6U	42.0U
2,4-Dimethylphenol	37.1U	37.2U	36.5U	36.7U	36.1U	35.2U	35.5U
Benzoic Acid	92.1U	92.4U	90.6U	91.2U	89.6U	87.4U	88.3U

Table 8 (continued)
Summary of Soil Analytical Results
for Soil Boring 18

Analytes	SB18-0101	SB18-0109	SB18-0119	SB18-0124	SB18-0133	SB18-0143	SB18-0159
Bis(-2-Chloroethoxy)Methane	42.7U	42.8U	42.0U	42.3U	41.5U	40.5U	40.9U
2,4-Dichlorophenol	49.4U	49.6U	48.6U	48.9U	48.1U	46.9U	47.4U
1,2,4-Trichlorobenzene	42.7U	42.8U	42.0U	42.3U	41.5U	40.5U	40.9U
Naphthalene	42.7U	42.8U	42.0U	42.3U	41.5U	40.5U	40.9U
4-Chloroaniline	155U	156U	152U	154U	151U	147U	149U
Hexachlorobutadiene	46.1U	46.2U	45.3U	45.6U	44.8U	43.7U	44.1U
4-Chloro-3-Methylphenol	40.4U	40.6U	39.8U	40.0U	39.3U	38.4U	38.8U
2-Methylnaphthalene	40.4U	40.6U	39.8U	40.0U	39.3U	38.4U	38.8U
Hexachlorocyclopentadiene	38.2U	38.3U	37.6U	37.8U	37.2U	36.2U	36.6U
2,4,6-Trichlorophenol	37.1U	37.2U	36.5U	36.7U	36.1U	35.2U	35.5U
2,4,5-Trichlorophenol	41.6U	41.7U	40.9U	41.2U	40.4U	39.4U	39.8U
2-Chloronaphthalene	39.3U	39.5U	38.7U	38.9U	38.3U	37.3U	37.7U
2-Nitroaniline	29.2U	29.3U	28.7U	28.9U	28.4U	27.7U	28.0U
Dimethyl Phthalate	34.8U	34.9U	34.3U	34.5U	33.9U	33.0U	33.4U
Acenaphthylene	43.8U	44.0U	43.1U	43.4U	42.6U	41.6U	42.0U
2,6-Dinitrotoluene	36.0U	36.1U	35.4U	35.6U	35.0U	34.1U	34.4U
3-Nitroaniline	87.6U	87.9U	86.2U	86.8U	85.2U	83.2U	84.0U
Acenaphthene	36.0U	36.1U	35.4U	35.6U	35.0U	34.1U	34.4U
2,4-Dinitrophenol	33.7U	33.8U	33.1U	33.4U	32.8U	32.0U	32.3U
4-Nitrophenol	55.8U	53.0U	51.9U	52.3U	51.4U	50.1U	50.6U
Dibenzofuran	38.2U	38.3U	37.6U	37.8U	37.2U	36.2U	36.6U
2,4-Dinitrotoluene	33.7U	33.8U	33.1U	33.4U	32.8U	32.0U	32.3U
Diethylphthalate	40.4U	40.6U	39.8U	40.0U	39.3U	38.4U	38.8U
4-Chlorophenyl-Phenylether	38.2U	38.3U	37.6U	37.8U	37.2U	36.2U	36.6U
Fluorene	39.3U	39.5U	38.7U	38.9U	38.3U	37.3U	37.7U
4-Nitroaniline	66.3U	66.5U	65.2U	65.6U	64.5U	62.9U	63.5U
4,6-Dinitro-2-Methylphenol	51.7U	51.9U	50.8U	51.2U	50.3U	49.0U	49.5U
N-Nitrosodiphenylamine	43.8U	44.0U	43.1U	43.4U	42.6U	41.6U	42.0U
4-Bromophenyl-Phenylether	39.3U	39.5U	38.7U	38.9U	38.3U	37.3U	37.7U
Phenanthrene	33.7U	33.8U	33.1U	33.4U	32.8U	32.0U	32.3U
Hexachlorobenzene	34.1U	34.9U	34.3U	34.5U	33.9U	33.0U	33.4U
Pentachlorophenol	62.9U	63.1U	61.9U	62.3U	61.2U	59.7U	60.3U
Anthracene	32.6U	32.7U	32.0U	32.3U	31.7U	30.9U	31.2U
Di-N-Butylphthalate	24.7U	24.8U	24.3U	24.5U	24.0U	23.5U	23.7U
Fluoranthene	31.5U	31.6U	30.9U	31.1U	30.6U	29.9U	30.1U
Pyrene	31.5U	31.6U	30.9U	31.1U	30.6U	29.9U	30.1U
Butylbenzylphthalate	33.7U	33.8U	33.1U	33.4U	32.8U	32.0U	32.3U
3,3'-Dichlorobenzidine	265U	266U	261U	263U	258U	252U	254U
Benzo(a)Anthracene	27.0U	27.1U	26.5U	26.7U	26.2U	25.6U	25.8U
Chrysene	28.1U	28.2U	27.6U	27.8U	27.3U	26.7U	26.9U
Bis(2-Ethylhexyl)Phthalate	34.8U	41.4 J	34.3U	34.5U	33.9U	33.0U	33.4U
Di-N-Octyl Phthalate	31.5U	31.6U	30.9U	31.1U	30.6U	29.9U	30.1U
Benzo(b)Fluoranthene	59.6U	59.8U	58.6U	59.0U	57.9U	56.5U	57.1U

Table 8 (continued)
Summary of Soil Analytical Results
for Soil Boring 18

Analytes	SB18-0101	SB18-0109	SB18-0119	SB18-0124	SB18-0133	SB18-0143	SB18-0159
Benzo(k)Fluoranthene	74.2U	74.4U	72.9U	73.4U	72.1U	70.4U	71.0U
Benzo(a)Pyrene	32.6U	32.7U	32.0U	32.3U	31.7U	30.9U	31.2U
Indeno(1,2,3-cd)Pyrene	37.1U	37.2U	36.5U	36.7U	36.1U	35.2U	35.5U
Dibenzo(a,h)Anthracene	34.8U	34.9U	34.3U	34.5U	33.9U	33.0U	33.4U
Inorganics	***Concentration (mg/kg)***						
Aluminum	7560	5870	4730	8050	3340	3540	4020
Antimony	5.2	3.5	4.2	4.3	2.9	2.8	2.8
Arsenic	1.7	1.6	3.3	3.1	1.2	0.73	0.4
Barium	65.3	1250	87.5	63.0	106	100	36.9
Beryllium	0.53	0.47	0.38	0.53	0.19	0.2	0.19
Cadmium	0.56U	0.56U	0.55U	0.56U	0.55U	0.53U	0.54U
Calcium	1680	189000	72000	98900	142000	46700	28100
Chromium	8.5	3.9	4.9	5.3	3.8	6.1	3.7
Cobalt	4	3.5	2.5	3.2	1.1	1.5	1.5
Copper	5.6	3	3.4	5.4	2.6	2.2	2
Iron	8690	3870	4840	5530	2630	3680	3270
Lead	5.7	3	3.1	2.9	1.1	1.2	1.1
Magnesium	1300	3000	2610	3600	3200	3530	5280
Manganese	158	66.9	67.3	114	24.6	38.7	38.1
Mercury	0.09U	0.09U	0.088U	0.089U	0.087U	0.085U	0.086U
Nickel	8.8	6.2	6.3	10.7	4.7	4.1	6.1
Potassium	1310	1030	1680	2360	666	856	902
Selenium	0.28U	0.69	0.28U	0.28U	0.27U	0.27U	0.27U
Silver	0.56U	0.56U	0.55U	0.56U	0.55U	0.53U	0.54U
Sodium	102	115	228	322	172	140	111
Thallium	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U
Vanadium	16.6	10.0	23.4	16.2	12.1	11.1	9.9
Zinc	21.1	11.7	12.6	21.5	21.8	11.8	13.5
Cyanide, Total	0.57U	0.54U	0.56U	0.55U	0.55U	0.52U	0.52U
Petroleum Hydrocarbons	42.6	16.9U	16.6U	16.7U	16.4U	40.4	16.1U
	(%)						
Solids, Total	89.0	88.7	90.5	89.9	91.5	93.8	92.9

Note: U = Not Detected (Preceding value is the Method Detection Limit).
J = Indicates an estimated value.

Table 9
Summary of Soil Analytical Results
for Soil Boring 19

Analytes	SB19-0101	SB19-0104	SB19-0117	SB19-0129	SB19-0133	SB19-0145	SB19-0159
VOAs (Method 8260A)	***Concentration (µg/kg)***						
Dichlorodifluoromethane	2.4U	2.3U	2.3U	2.3U	2.4U	2.3U	2.3U
Chloromethane	1.7U	1.7U	1.7U	1.7U	1.7U	1.6U	1.6U
Vinyl Chloride	1.5U	1.4U	1.5U	1.5U	1.5U	1.4U	1.4U
Bromomethane	0.9U	0.88U	0.88U	0.88U	0.89U	0.85U	0.84U
Chloroethane	1.7U	1.7U	1.7U	1.7U	1.7U	1.6U	1.6U
Trichlorofluoromethane	2.7U	2.7U	2.7U	2.7U	2.7U	2.6U	2.6U
1,1-Dichloroethene	1.5U	1.4U	1.5U	1.5U	1.5U	1.4U	1.4U
Methylene Chloride	11.6	2.8U	2.8U	2.8U	2.8U	2.7U	8.5
trans-1,2-Dichloroethene	0.74U	0.72U	0.73U	0.73U	0.73U	0.70U	0.69U
1,1-Dichloroethane	0.74U	0.72U	0.73U	0.73U	0.73U	0.70U	0.69U
Carbon Disulfide	1.7U	1.7U	1.7U	1.7U	1.7U	1.6U	1.6U
2,2-Dichloropropane	1.4U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U
cis-1,2-dichloroethene	0.79U	0.78U	0.78U	0.78U	0.79U	0.76U	0.75U
Bromochloromethane	0.93U	0.91U	0.92U	0.92U	0.92U	0.88U	0.87U
Chloroform	0.91U	0.89U	0.89U	0.89U	0.9U	0.86U	0.85U
1,1,1-Trichloroethane	0.58U	0.57U	0.57U	0.57U	0.57U	0.55U	0.54U
1,1-Dichloropropene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Carbon Tetrachloride	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1U
Benzene	0.59U	0.58U	0.58U	0.58U	0.58U	0.56U	0.55U
1,2-Dichloroethane	0.92U	0.9U	0.9U	0.91U	0.91U	0.87U	0.86U
Trichloroethene	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U
1,2-Dichloropropane	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U
Bromodichloromethane	0.75U	0.73U	0.74U	0.74U	0.74U	0.71U	0.7U
Dibromomethane	1.1U	1.1U	1.1U	1.1U	1.1U	1U	1U
cis-1,3-Dichloropropene	1.1U	1.1U	1.1U	1.1U	1.1U	1U	1U
Toluene	0.91U	0.89U	0.89U	0.89U	0.9U	0.86U	0.85U
trans-1,3-Dichloropropene	0.67U	0.65U	0.66U	0.66U	0.66U	0.64U	0.63U
1,1,2-Trichloroethane	0.92U	0.9U	0.9U	0.91U	0.91U	0.87U	0.86U
1,2-Dibromoethane	1U	0.98U	0.98U	0.98U	0.99U	0.95U	0.94U
Tetrachloroethene	0.88U	0.86U	0.87U	0.87U	0.88U	0.84U	0.83U
1,3-Dichloropropane	0.98U	0.95U	0.96U	0.96U	0.97U	0.93U	0.92U
Dibromochloromethane	0.66U	0.64U	0.65U	0.65U	0.65U	0.63U	0.62U
Chlorobenzene	0.65U	0.63U	0.64U	0.64U	0.64U	0.61U	0.61U
1,1,1,2-Tetrachloroethane	0.56U	0.54U	0.55U	0.55U	0.55U	0.53U	0.52U
Ethylbenzene	0.79U	0.78U	0.78U	0.78U	0.79U	0.76U	0.75U
m & p-Xylene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
o-Xylene	0.52U	0.51U	0.51U	0.51U	0.52U	0.5U	0.49U
Styrene	0.68U	0.67U	0.67U	0.67U	0.67U	0.65U	0.64U
2-Hexanone	4.9U	4.8U	4.8U	4.8U	4.8U	4.6U	4.6U

Table 9 (continued)
Summary of Soil Analytical Results
for Soil Boring 19

Analytes	SB19-0101	SB19-0104	SB19-0117	SB19-0129	SB19-0133	SB19-0145	SB19-0159
Bromoform	1.4U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U
Isopropylbenzene	0.75U	0.73U	0.74U	0.74U	0.74U	0.71U	0.7U
1,1,2,2-Tetrachloroethane	2.5U	2.4U	2.5U	2.5U	2.5U	2.4U	2.3U
Bromobenzene	1.1U	1U	1U	1.1U	1.1U	1U	1U
1,2,3-Trichloropropane	2.3U	2.2U	2.2U	2.2U	2.2U	2.2U	2.1U
n-Propylbenzene	0.66U	0.64U	0.65U	0.65U	0.65U	0.63U	0.62U
2-Chlorotoluene	0.88U	0.86U	0.87U	0.87U	0.88U	0.84U	0.83U
4-Chlorotoluene	0.91U	0.89U	0.89U	0.89U	0.9U	0.86U	0.85U
1,3,5-Trimethylbenzene	0.57U	0.55U	0.56U	0.56U	0.56U	0.54U	0.53U
tert-Butylbenzene	0.61U	0.6U	0.6U	0.6U	0.61U	0.58U	0.58U
1,2,4-Trimethylbenzene	0.79U	0.78U	0.78U	0.78U	0.79U	0.76U	0.75U
sec-Butylbenzene	0.71U	0.7U	0.7U	0.7U	0.71U	0.68U	0.67U
p-Isopropyltoluene	0.69U	0.68U	0.68U	0.68U	0.69U	0.66U	0.65U
1,3-Dichlorobenzene	1U	1U	1U	1U	1U	0.99U	0.98U
1,4-Dichlorobenzene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dichlorobenzene	1.4U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U
n-Butylbenzene	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
1,2-Dibromo-3-Chloropropane	2.8U	2.8U	2.8U	2.8U	2.8U	2.7U	2.7U
1,2,4-Trichlorobenzene	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U
Hexachlorobutadiene	0.88U	0.86U	0.87U	0.87U	0.88U	0.84U	0.83U
Naphthalene	1.9U	1.9U	1.9U	1.9U	1.9U	1.8U	1.8U
1,2,3-Trichlorobenzene	1.5U	1.4U	1.5U	1.5U	1.5U	1.4U	1.4U
Acetone	9.8U	9.5U	9.6U	9.6U	9.7U	9.3U	9.2U
2-Butanone	8.9U	8.7U	8.8U	8.8U	8.8U	8.5U	8.4U
4-Methyl-2-Pentanone	4.1U	4U	4U	4U	4U	3.9U	3.8U
BNAs (Method 8270)	***Concentration (µg/kg)***						
Phenol	48.8U	47.7U	48.0U	48.0U	48.3U	46.4U	45.8U
Bis(-2-Chloroethyl)Ether	46.5U	45.5U	45.8U	45.8U	46.0U	44.2U	43.7U
2-Chlorophenol	47.6U	46.6U	46.9U	46.9U	47.1U	45.3U	44.7U
1,3-Dichlorobenzene	51.0U	49.9U	50.2U	50.3U	50.5U	48.5U	47.9U
1,4-Dichlorobenzene	47.6U	46.6U	46.9U	46.9U	47.1U	45.3U	44.7U
Benzyl Alcohol	45.4U	44.3U	44.6U	44.7U	44.9U	43.1U	42.6U
1,2-Dichlorobenzene	62.4U	61.0U	61.4U	61.5U	61.7U	59.3U	58.6U
2-Methylphenol	51.0U	49.9U	50.2U	50.3U	50.5U	48.5U	47.9U
Bis(2-Chloroisopropyl)Ether	55.6U	54.3U	54.7U	54.7U	55.0U	52.9U	52.2U
4-Methylphenol	48.8U	47.7U	48.0U	48.0U	48.3U	46.4U	45.8U
N-Nitroso-Di-N-Propylamine	52.2U	51.0U	51.3U	51.4U	51.6U	49.6U	49.0U
Hexachloroethane	55.6U	54.3U	54.7U	54.7U	55.0U	52.9U	52.2U
Nitrobenzene	39.7U	38.8U	39.1U	39.1U	39.3U	37.8U	37.3U
Isophorone	31.7U	31.0U	31.3U	31.3U	31.4U	30.2U	29.8U
2-Nitrophenol	44.2U	43.2U	43.5U	43.6U	43.8U	42.1U	41.5U
2,4-Dimethylphenol	37.4U	36.6U	36.8U	36.9U	37.0U	35.6U	35.1U

Table 9 (continued)
Summary of Soil Analytical Results
for Soil Boring 19

Analytes	SB19-0101	SB19-0104	SB19-0117	SB19-0129	SB19-0133	SB19-0145	SB19-0159
Benzoic Acid	93.0U	90.9U	91.5U	91.6U	92.0U	88.5U	87.3U
Bis(-2-Chloroethoxy)Methane	43.1U	42.1U	42.4U	42.5U	42.6U	41.0U	40.5U
2,4-Dichlorophenol	49.9U	48.8U	49.1U	49.2U	49.4U	47.5U	46.9U
1,2,4-Trichlorobenzene	43.1U	42.1U	42.4U	42.5U	42.6U	41.0U	40.5U
Naphthalene	43.1U	42.1U	42.4U	42.5U	42.6U	41.0U	40.5U
4-Chloroaniline	156U	153U	154U	154U	155U	149U	147U
Hexachlorobutadiene	46.5U	45.5U	45.8U	45.8U	46.0U	44.2U	43.7U
4-Chloro-3-Methylphenol	40.8U	39.9U	40.2U	40.2U	40.4U	38.8U	38.3U
2-Methylnaphthalene	40.8U	39.9U	40.2U	40.2U	40.4U	38.8U	38.3U
Hexachlorocyclopentadiene	38.5U	37.7U	37.9U	38.0U	38.2U	36.7U	36.2U
2,4,6-Trichlorophenol	37.4U	36.6U	36.8U	36.9U	37.1U	35.6U	35.1U
2,4,5-Trichlorophenol	42.0U	41.0U	41.3U	41.3U	41.5U	39.9U	39.4U
2-Chloronaphthalene	39.7U	38.8U	39.1U	39.1U	39.3U	37.8U	37.3U
2-Nitroaniline	29.5U	28.8U	29.0U	29.1U	29.2U	28.0U	27.7U
Dimethyl Phthalate	35.1U	34.4U	34.6U	34.6U	34.8U	33.4U	33.0U
Acenaphthylene	44.2U	43.2U	43.5U	43.6U	43.8U	42.1U	41.5U
2,6-Dinitrotoluene	36.3U	35.5U	35.7U	35.8U	35.9U	34.5U	34.1U
3-Nitroaniline	88.4U	86.5U	87.1U	87.2U	87.5U	84.1U	83.1U
Acenaphthene	36.3U	35.5U	35.7U	35.8U	35.9U	34.5U	34.1U
2,4-Dinitrophenol	34.0U	33.3U	33.5U	33.5U	33.7U	32.4U	31.9U
4-Nitrophenol	53.3U	52.1U	52.5U	52.5U	52.8U	50.7U	50.1U
Dibenzofuran	38.5U	37.7U	37.9U	38.0U	38.2U	36.7U	36.2U
2,4-Dinitrotoluene	34.0U	33.3U	33.5U	33.5U	33.7U	32.4U	31.9U
Diethylphthalate	40.8U	39.9U	40.2U	40.2U	40.4U	38.8U	38.3U
4-Chlorophenyl-Phenylether	38.5U	37.7U	37.9U	38.0U	38.2U	36.7U	36.2U
Fluorene	39.7U	38.8U	39.1U	39.1U	39.3U	37.8U	37.3U
4-Nitroaniline	66.9U	65.4U	65.8U	65.9U	66.2U	63.6U	62.8U
4,6-Dinitro-2-Methylphenol	52.2U	51.0U	51.3U	51.4U	51.6U	49.6U	49.0U
N-Nitrosodiphenylamine	44.2U	43.2U	43.5U	43.6U	43.8U	42.1U	41.5U
4-Bromophenyl-Phenylether	39.7U	38.6U	39.1U	39.1U	39.3U	37.8U	37.3U
Phenanthrene	34.0U	33.3U	33.5U	33.5U	33.7U	32.4U	31.9U
Hexachlorobenzene	35.1U	34.4U	34.6U	34.6U	34.8U	33.4U	33.0U
Pentachlorophenol	63.5U	62.1U	62.5U	62.5U	62.9U	60.4U	59.6U
Anthracene	32.9U	32.2U	32.4U	32.4U	32.5U	31.3U	30.9U
Di-N-Butylphthalate	24.9U	24.4U	24.6U	24.6U	24.7U	23.7U	23.4U
Fluoranthene	31.7U	44.8J	31.3U	31.3U	31.4U	30.2U	29.8U
Pyrene	31.7U	60.6J	31.3U	31.3U	31.4U	30.2U	29.8U
Butylbenzylphthalate	34.0U	33.3U	33.5U	33.5U	33.7U	32.4U	31.9U
3,3'-Dichlorobenzidine	268U	262U	263U	264U	265U	255U	251U
Benzo(a)Anthracene	27.2U	26.6U	26.8U	26.8U	26.9U	25.9U	25.6U
Chrysene	28.3U	33.7J	27.9U	27.9U	28.1U	27.0U	26.6U
Bis(2-Ethylhexyl)Phthalate	35.1U	34.4U	34.6U	34.6U	34.8U	33.4U	33.0U
Di-N-Octyl Phthalate	31.7U	31.0U	31.3U	31.3U	31.4U	30.2U	29.8U

Table 9 (continued)
Summary of Soil Analytical Results
for Soil Boring 19

Analytes	SB19-0101	SB19-0104	SB19-0117	SB19-0129	SB19-0133	SB19-0145	SB19-0159
Benzo(b)Fluoranthene	60.1U	58.8U	59.2U	59.2U	59.5U	57.2U	56.4U
Benzo(k)Fluoranthene	74.8U	73.2U	73.7U	73.7U	74.1U	71.2U	70.3U
Benzo(a)Pyrene	32.9U	35.8J	32.4U	32.4U	32.5U	31.3U	30.9U
Indeno(1,2,3-cd)Pyrene	37.4U	36.6U	36.8U	36.9U	37.0U	35.6U	35.1U
Dibenzo(a,h)Anthracene	35.1U	34.4U	34.6U	34.6U	34.8U	33.4U	33.0U
Inorganics	***Concentration (mg/kg)***						
Aluminum	7520	5080	6020	3510	4200	2520	3050
Antimony	2.3U	3.9	4.6	3.6	3.6	2.2U	2.7
Arsenic	1.9	1.6	1.1	1.2	1.5	0.9	0.67
Barium	90.9	222	226	454	85.5	45.8	108
Beryllium	0.55	0.31	0.4	0.28	0.3	0.15	0.17
Cadmium	0.57U	0.55U	0.56U	0.56U	0.56U	0.54U	0.53U
Calcium	1920	123000	65300	99300	71900	116000	44100
Chromium	8.4	6	5.7	7.3	3.7	3.6	4.6
Cobalt	5	2.6	2.2	2.2	1.9	3.9	2.3
Copper	5.4	3.9	2.8	2.8	1.3	1.1U	1.3
Iron	8760	4600	5320	3140	2990	2000	3030
Lead	9.5	2.1	2.7	1.5	1.9	0.97	1.6
Magnesium	1280	2130	3670	2600	2990	3540	3890
Manganese	245	83.1	56.6	32.3	28.2	64.3	62.4
Mercury	0.091U	0.089U	0.089U	0.089U	0.09U	0.086U	0.085U
Nickel	8.5	6.7	6.3	4.7	4.4	2.9	4
Potassium	1340	1010	1810	877	973	541	915
Selenium	0.15	0.28U	0.28U	0.28U	0.28U	0.27U	0.27U
Silver	0.57U	0.55U	0.56U	0.56U	0.56U	0.54U	0.53U
Sodium	105	117	173	223	220	156	155
Thallium	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.12
Vanadium	17.0	10.4	13.3	12.4	13.3	8.3	8.3
Zinc	23.1	12.9	13.0	11.9	10.9	4.5	5.9
Cyanide, Total	0.57U	0.55U	0.54U	0.54U	0.56U	0.54U	0.53U
Petroleum Hydrocarbons	104	1530	16.7U	16.8U	16.8U	16.2U	17.3
	(%)						
Solids, Total	88.2	90.2	89.6	89.5	89.1	92.7	93.9

Note: U = Not Detected (Preceding value is the Method Detection Limit).
J = Indicates an estimated value.

Table 10
Percent Recovery for VOA Surrogate Spikes for Precision and Accuracy Determinations

Sample ID # CANFTA4-	VOA Surrogates (% Recovery)			
	4-Bromofluorobenzene	Dibromofluoromethane	1,2-DCA-D4	Toluene-D8
SB01-0103	87	104	99	98
SB01-0119	88	105	98	97
SB01-0127	111	108	101	103
SB01-0138	100	112	100	93
SB01-0142	102	110	95	98
SB01-0155	102	110	113	106
SB01-0165	114	108	117	129
SB01-0173	86	100	92	95
SB01-0180	105	106	113	110
SB04-0101	111	111	111	107
300427-02B1	97	107	99	102
300427-08B1	84	97	88	91
300427-06B1	99	101	103	103
300433-04B1	100	108	103	108
300433-01B1	105	101	104	104
300433-10B1	100	100	98	100
SB04-0109	115	112	114	115
300433-19B1	100	106	105	98
SB04-0119	115	112	107	114
SB02-0101	112	111	112	116
SB02-0109	122	120	116	121
SB02-0119	113	108	106	112
SB07-0101	117	119	115	116
SB07-0109	100	108	109	106
SB07-0119	112	117	116	113
SB03-0101	117	120	122	118
SB03-0109	108	106	114	110
SB03-0119	113	118	120	113
SB05-0101	114	110	109	109
SB05-0109	105	108	113	110
SB05-0112	112	107	115	110
SB06-0101	116	115	118	115
SB06-0107	112	116	120	116
SB06-0117	107	119	124	119
0101-0117	99	99	104	99
SB13-0104	94	107	95	100

TABLE 10 (Continued)
Percent Recovery for VOA Surrogate Spikes for Precision and Accuracy Determinations

Sample ID # CANFTA4-	VOA Surrogates (% Recovery)			
	4-Bromofluorobenzene	Dibromofluoromethane	1,2-DCA-D4	Toluene-D8
SB13-0115	87	101	91	94
SB15-0101	95	109	98	102
SB15-0109	89	106	93	96
SB15-0119	92	108	97	100
SB14-0101	100	107	100	96
SB14-0102	89	102	92	94
SB14-0115	88	98	91	92
SB16-0101	88	101	92	92
SB16-0104	93	106	95	95
SB16-0110	92	107	98	98
SB10-0101	89	101	91	97
SB08-0101	114	118	108	110
SB08-0103	94	107	98	102
SB08-0110	100	106	116	98
SB09-0101	111	114	120	107
SB09-0102	99	101	112	103
SB09-0115	101	105	109	102
0102-0115	91	103	92	104
SB13-0101	99	111	101	109
SB11-0107	103	105	110	101
SB11-0101	136	124	131	119
SB11-0117	102	103	106	101
SB12-0101	110	112	115	107
SB12-0102	104	105	114	105
SB12-0110	102	112	114	107
SB12-0121	104	111	115	104
SB12-0130	90	96	86	99
SB10-0110	97	106	116	93
SB10-0106	103	108	110	98
300435-01B1	100	106	105	98
300435-09B1	99	101	103	103
300435-08B1	96	111	99	109
SB17-0101	98	109	98	108
SB17-0109	92	105	93	104
SB17-0119	91	102	91	104
SB17-0129	87	96	87	97

TABLE 10 (Continued)
Percent Recovery for VOA Surrogate Spikes for Precision and Accuracy Determinations

Sample ID # CANFTA4-	VOA Surrogates (% Recovery)			
	4-Bromofluorobenzene	Dibromofluoromethane	1,2-DCA-D4	Toluene-D8
SB17-0139	95	105	96	106
SB17-0145	99	108	100	111
SB17-0159	109	115	106	116
SB18-0101	99	101	96	106
SB18-0109	94	105	95	102
SB18-0119	96	111	101	108
SB18-0124	95	109	98	107
SB18-0133	104	118	106	115
SB18-0143	94	106	98	103
SB18-0156	100	115	104	112
SB19-0104	104	116	106	110
SB19-0117	85	96	86	94
SB19-0129	97	110	98	107
SB19-0133	94	107	95	105
SB19-0145	88	101	92	100
SB19-0159	95	107	96	105
SB19-0101	96	108	99	109
300439-21B1	96	111	99	109
300439-01B1	87	104	94	99
SB16-0110	92	107	98	98
SB10-0101	89	101	91	97

VOA = Volatile Organic Analyte

Table 11
Percent Recovery for SVOA Surrogate Spikes for Precision and Accuracy Determinations

Sample ID # CANFTA4-	SVOA Surrogates (% Recovery)					
	2-Fluorobiphenyl	2-Fluorophenol	D5 Nitrobenzene	2,4,6-Tribromophenol	D5 Phenol	D14 Terphenyl
SB01-0103	82	61	79	70	0*	81
SB01-0119	88	65	81	80	0*	82
SB01-0127	78	64	70	68	85	75
SB01-0138	87	71	83	77	75	80
SB01-0142	82	68	74	73	71	79
SB01-0155	71	67	75	73	71	79
SB01-0165	79	68	73	76	74	77
SB01-0173	69	63	63	73	64	77
SB01-0180	73	68	77	79	69	86
SB04-0101	89	72	77	71	73	87
300427-08B1	74	65	73	76	66	84
300433-01B1	89	72	77	71	73	87
300433-12B1	78	77	79	78	83	77
SB04-0109	84	67	80	76	69	90
SB04-0119	77	70	81	74	75	94
SB02-0101	85	71	80	87	71	90
SB02-0109	78	71	75	84	72	90
SB02-0119	71	66	72	74	69	88
SB07-0101	77	68	75	83	72	98
SB07-0109	83	73	75	80	76	93
SB07-0119	74	68	72	74	68	77
SB03-0101	71	54	65	80	61	83
SB03-0109	76	70	78	80	69	87
SB03-0119	79	77	78	75	84	76
SB05-0101	80	75	73	80	85	75
SB05-0109	74	72	73	72	78	75
SB05-0112	68	68	67	69	73	70
SB06-0101	77	77	82	75	84	73
SB06-0107	83	81	81	85	91	84
SB06-0117	76	76	76	74	81	75
0101-0117	70	68	68	66	72	72
SB13-0104	75	72	73	76	78	83
SB13-0115	75	73	74	69	80	71
SB15-0101	79	75	80	73	80	74
SB15-0109	71	68	72	66	75	70

TABLE 11 (Continued)
Percent Recovery for SVOA Surrogate Spikes for Precision and Accuracy Determinations

Sample ID # CANFTA4-	SVOA Surrogates (% Recovery)					
	2-Fluorobiphenyl	2-Fluorophenol	D5 Nitrobenzene	2,4,6-Tribromophenol	D5 Phenol	D14 Terphenyl
SB15-0119	78	70	74	71	77	76
SB14-0101	80	81	83	75	88	79
SB14-0102	73	70	72	72	77	71
SB14-0115	76	76	78	77	83	75
SB16-0101	78	78	79	75	84	74
SB16-0104	83	76	82	69	83	82
SB16-0110	81	79	81	77	86	80
SB10-0101	82	73	74	78	80	88
SB08-0101	79	78	76	77	86	85
SB08-0103	72	73	70	80	76	75
SB08-0110	62	54	55	98	58	77
SB09-0101	68	59	64	110	66	77
SB09-0102	75	70	65	80	70	89
SB09-0115	71	65	60	92	68	89
0102-0115	71	59	58	95	64	82
300434-01B1	78	77	79	78	83	77
300434-17B1	74	79	72	88	86	79
SB13-0101	71	64	61	100	73	82
SB11-0107	67	63	59	91	59	81
SB11-0101	30	36	23	23	36	31
SB11-0117	57	54	46	67	54	82
SB12-0101	69	65	49	74	67	74
SB12-0102	69	57	47	76	66	78
SB12-0110	51	53	44	57	56	65
SB12-0121	63	61	49	71	67	85
SB12-0130	70	71	55	75	78	87
SB10-0110	60	55	43	59	56	78
SB10-0106	50	51	47	54	54	68
300435-01B1	74	79	72	88	86	79
SB17-0101	76	77	79	78	86	70
SB17-0109	72	81	76	72	92	71
SB17-0119	73	84	82	70	94	70
SB17-0129	72	77	79	67	88	69
SB17-0139	73	85	83	72	97	69
SB17-0145	78	83	79	82	93	71

TABLE 11 (Continued)
Percent Recovery for SVOA Surrogate Spikes for Precision and Accuracy Determinations

Sample ID # CANFTA4-	SVOA Surrogates (% Recovery)					
	2-Fluorobiphenyl	2-Fluorophenol	D5 Nitrobenzene	2,4,6-Tribromophenol	D5 Phenol	D14 Terphenyl
SB17-0159	80	86	81	87	98	75
SB18-0101	80	86	82	87	92	76
SB18-0109	70	76	77	65	87	69
SB18-0119	67	75	73	64	84	67
SB18-0124	72	79	80	68	88	71
SB18-0133	65	72	70	64	79	67
SB18-0143	74	77	70	86	86	74
SB18-0156	71	81	81	70	90	73
SB19-0104	79	83	82	82	89	78
SB19-0117	68	71	75	64	80	72
SB19-0129	68	66	65	70	81	71
SB19-0133	71	78	80	66	85	74
SB19-0145	72	77	77	81	86	73
SB19-0159	63	62	60	80	72	75
SB19-0101	81	70	61	73	74	92
300439-01B1	74	79	72	88	86	79
300439-13B1	81	85	85	79	99	78

SVOA = Semivolatile Organic Analyte

Table 12
Percent Recovery for VOA MS/MSD Spikes for Precision and Accuracy Determination

Sample ID	Recovery	1,1-DCE	Benzene	TCE	Toluene	Chlorobenzene
CANFTA4-0102-0115	MS %Rec	107.5	121.2	96.5	109.4	98.9
	MSD %Rec	114.2	124.7	102.1	113.6	103
	RPD	6	2.9	5.6	3.7	4
CANFTA4-SB11-0107	MS %Rec	101.6	109.7	91.9	96.5	91.7
	MSD %Rec	98.9	100.1	98	96.3	93.6
	RPD	2.7	9.1	6.4	0.3	2
CANFTA4-0102-0115	MS %Rec	104.2	111.8	95.2	100	95.3
	MSD %Rec	107	120.5	103.2	106.6	99.9
	RPD	2.6	7.5	8.1	6.4	4.7
CANFTA4-SB04-0101	MS %Rec	100	123.5	104.4	122.4	112.8
	MSD %Rec	108.8	122.2	113.9	119	115.1
	RPD	8.4	1.1	8.7	2.8	2
CANFTA4-SB01-0119	MS %Rec	74.5	88.4	85.9	93.1	79.4
	MSD %Rec	69.3	86.3	86.5	107.6	83.4
	RPD	7.2	2.4	0.7	14.4	4.9

Note:
MS %Rec = Matrix Spike % Recovery
MSD %Rec = Matrix Spike Duplicate % Recovery
RPD = Relative Percent Difference

Table 13
Percent Recovery for SVOA MS/MSD Spikes for Precision and Accuracy Determination

Sample ID	Recovery	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11
SB13-0104	MS%Rec	76.77	76.9	66.3	77.3	68	84.5	74.9	75.9	73.6	68.8	75.3
	MSD%Rec	69.8	70.8	57.4	64.3	61.4	76	67.9	71.1	65.3	65.7	67.6
	RPD	9.5	8.3	14.4	18.4	10.2	10.5	9.9	6.6	12	4.6	10.8
SB09-0102	MS%Rec	76.4	76.3	73.8	87.7	72.3	89.7	83	70.6	69.6	56.7	85
	MSD%Rec	75.6	74.4	71.3	86.1	73.1	92.6	84.3	76.4	69.4	59.2	84.2
	RPD	1	2.5	3.5	1.8	1.1	3.2	1.6	8	0.3	4.3	0.4
SB01-0173	MS%Rec	77.3	75.8	66.3	74.1	70.4	83.3	72.9	94.2	75.1	69.2	74.3
	MSD%Rec	69.2	70.3	64.3	66.3	66.7	80.4	66.6	94.8	74.3	70.4	81.3
	RPD	11.1	7.5	3.1	11.1	5.4	3.5	8.9	0.7	1.1	1.8	9.1
SB18-0143	MS%Rec	76.4	76.3	73.8	87.7	72.3	89.7	83	70.6	69.6	56.7	85
	MSD%Rec	75.6	74.4	71.3	86.1	73.1	92.6	84.3	76.4	69.4	59.2	84.6
	RPD	1	2.5	3.5	1.8	1.1	3.2	1.6	8	0.3	4.3	0.4

Note:
MS %Rec = Matrix Spike % Recovery
MSD %Rec = Matrix Spike Duplicate % Recovery
RPD = Relative Percent Difference
A1 = Phenol
A2 = 2-Chlorophenol
A3 = 1,4-Dichlorobenzene
A4 = N-Nitroso-Di-N-Propylamine
A5 = 1,2,4-Trichlorobenzene
A6 = 4-Chloro-3-Methylphenol
A7 = Acenaphthene
A8 = 4-Nitrophenol
A9 = 2,4-Dinitrotoluene
A10 = Pentachlorophenol
A11 = Pyrene

Table 14
Analytes for which the MS/MSD Recoveries are Outside of the Limits

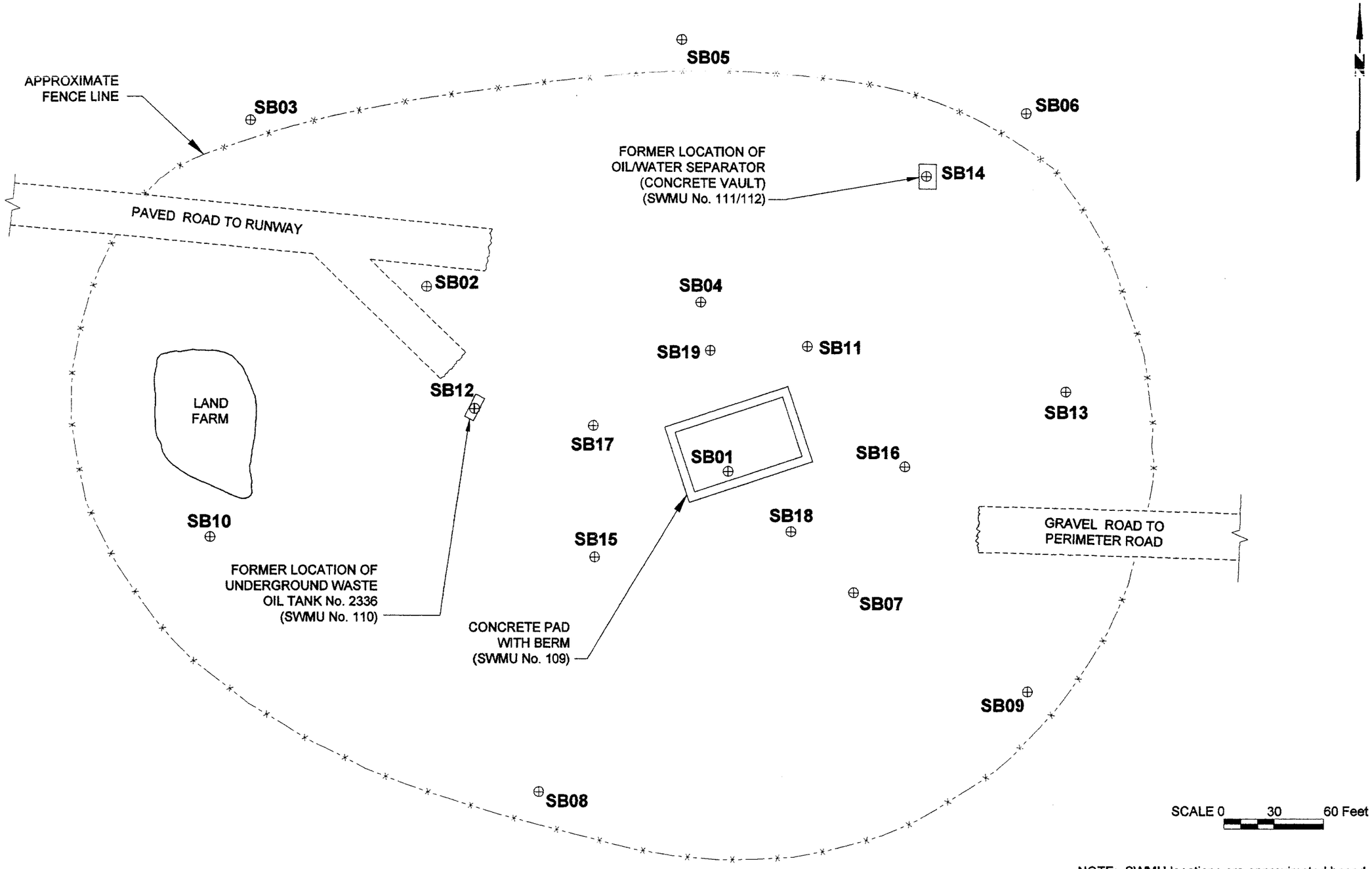
SDG	Analyte	MS %REC	MSD %REC	RPD
300427	Antimony	36	24	30
	Copper	54	56	Normal
	Manganese	11	13	Normal
	Nickel	50	55	Normal
300433	Antimony	41	46	Normal
	Manganese	63	Normal	Normal
	Selenium	Normal	73	Normal
300434	Antimony	40	49	Normal
	Selenium	Normal	69	Normal
400435	Antimony	18	19	Normal
400439	Antimony	24	40	36

Note: SDG = Sample Delivery Group
MS %Rec = Matrix Spike % Recovery
MSD %Rec = Matrix Spike Duplicate % Recovery
RPD = Relative Percent Difference

Table 15
Laboratory Control Sample Recoveries for the Inorganics

Analytes	SDG 300434 LCS % Rec	SDG 300439 LCS % Rec	SDG 300433 LCS % Rec	SDG 300435 LCS % Rec	SDG 300427 LCS % Rec	LCS % Rec Limits
Aluminum	98	92	98	90	97	80-120
Antimony	93	91	93	86	91	80-120
Arsenic	108	94	105	108	101	80-120
Barium	100	98	101	92	99	80-120
Beryllium	104	96	104	96	104	80-120
Cadmium	96	99	97	92	96	80-120
Calcium	98	96	102	94	96	80-120
Chromium	100	92	99	91	99	80-120
Cobalt	98	94	99	92	98	80-120
Copper	101	106	101	93	100	80-120
Iron	98	102	99	90	97	80-120
Lead	113	98	99	106	114	80-120
Magnesium	94	99	99	92	93	80-120
Manganese	101	94	99	91	99	80-120
Mercury	99	95	99	94	98	80-120
Nickel	106	113	104	96	104	80-120
Potassium	97	112	103	94	93	80-120
Selenium	101	92	102	102	108	80-120
Silver	105	94	104	98	105	80-120
Sodium	98	95	104	95	97	80-120
Thallium	98	96	97	112	93	80-120
Vanadium	100	93	101	92	99	80-120
Zinc	103	97	101	95	102	80-120
Cyanide, Total	97	97	83*	97	97	90-110
Petroleum Hydrocarbons	89	90	96	93	91	90-110

Note: SDG = Sample Delivery Group
LCS %Rec = Laboratory Control Sample % Recovery
* = Outside of LCS %Rec limits



LEGEND:

Fence

SB01 Soil Boring Location

1997

HARZA Consulting Engineers and Scientists

NOTE: SWMU locations are approximated based on available information.

Figure 1

SOIL SAMPLING LOCATION MAP

FIRE TRAINING AREA No. 4
CANNON AIR FORCE BASE
Clovis, New Mexico

h0005/nb/fig1.dgn

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 1
DATE 2/19/97
DAY S M T (W) Th F S

Weather	Bright Sun	Clear	(Overcast)	(Rain)	Snow
Temp	(< 32)	32-50	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates.

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment.

Visitors: Kim Mulhern (USACE)

Work Performed (including sampling): Conduct pre-work safety briefing. Drillers setup decon pad and decontaminate drilling equipment using high pressure hot water. Water supplied by base. Drillers unload equipment and setup at Soil Boring SB01 location. Drilling activities begin at 3 pm. Chain on the drill rig breaks at 3:00 and results in 1 hour lost time. Sampling activities terminated at 1810 hrs due to lack of day light. Samples collected at SB01 at 3ft, 19ft and 29ft for lab analysis, immunoassay testing, field screening and geotechnical testing. Samples maintained on ice overnight a field trailer.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 1
DATE 3/19/97

QC Activities (including field calibrations):

Calibrated Hnu to 100 ppm isobutylene at 200 psi.
Calibrated CGI to 0.3% pentane at 375 psi.

Health & Safety Levels/Activities: Modified Level D within exclusion zone.

Problems Encountered/Corrective Actions Taken: None with respect to Harza and HLA Alliance Environmental broke a chain on the drill rig which resulted in 1 hour lost time to repair the chain.

Remarks: Kim Mulhern stated that based upon existing site data, SB01 should be completed to a minimum depth of 80 ft bgs.

Tomorrow's Expectations: Complete drilling and sampling activities at SB02 and complete drilling and sampling at other locations.

Signature Robert W. Smith Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 2
DATE 2-20-97
DAY S M T W (Th) F S

Weather	(Bright Sun)	(Clear)	Overcast	Rain	Snow
Temp	< 32	(32-50)	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Completed drilling and sampling activities at SB01. Boring SB01 terminated a 90ft b.g.s. as two consecutive non-detections on immunoassay were obtained from the 70-80 ft and 80-90 ft intervals. Samples for lab analysis, immunoassay testing, field screening, and geotechnical testing from SB01 collected at 38 ft, 42 ft, 55 ft, 65 ft, 73 ft and 80 ft.

Begin and complete drilling and sampling activities at SB04. SB04 terminated at 20 ft b.g.s. as two consecutive non-detections were obtained on immunoassay from 0-10 ft and 10-20 ft. Samples for lab analysis, immunoassay testing, field screening and geotechnical testing from SB01 at 1 ft, 9 ft, and 19 ft b.g.s.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 2
DATE 2-20-97

QC Activities (including field calibrations): Calibrated HNu to 100 ppm isobutylene at 200 psi

Health & Safety Levels/Activities: Modified level D within established exclusion zone.

Problems Encountered/Corrective Actions Taken: None

Remarks: Drilling continues to progress slower than expected and planned.

Tomorrow's Expectations: Begin and complete drilling and sampling at location SB07 and SB02.

Signature [illegible] Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 3
DATE 2-21-97
DAY S M T W Th (F) S

Weather	Bright Sun	(Clear)	Overcast	Rain	Snow
Temp	< 32	32-50	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates

Equipment on Site: Rotosonic Drilling Equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Complete drilling and sampling activities at SB07, SB02, SB03, and SB05. Each boring terminated at 20 ft b.g.s. as two non-detections on immunoassay were obtained from the 0-10 ft and 10-20 ft intervals. Three samples collected from each boring for lab analysis, immunoassay testing, field screening and geotechnical testing.

Each boring was grouted using high-solids bentonite grout. Drillers setup drilling at SB06.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 3
DATE 2-21-97

QC Activities (including field calibrations): Calibrated HNu to 100 ppm isobutylene at 200 psi.

Health & Safety Levels/Activities: Modified Level D within established exclusion zone.

Problems Encountered/Corrective Actions Taken: Determined that two soil borings were labeled as SB05 on the Proposed Soil Boring Location Plan. Re numbered SB05 located approx. 160 ft east of the Fire training pit concrete pad as SB13.

Remarks: None

Tomorrow's Expectations: Drill SB06, SB11, and SB12.

Signature Robert W. [illegible] Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 4
DATE 3-22-96
DAY S M T W Th F (S)

Weather	Bright Sun	(Clear)	Overcast	Rain	Snow
Temp	< 32	(32-50)	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates

Equipment on Site: Retosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Complete drilling and sampling activities at SB06, SB11, SB12, and SB10. Borings SB06, SB11, and SB10 terminated at 20 ft b.g.s., as two consecutive non-detections were obtained using immunoassay from the 0-10 ft and 10-20 ft intervals. Three samples collected from each boring (SB06, SB11, SB10) for lab analysis, immunoassay testing, field screening, and geotechnical testing.

Boring SB12 terminated at 40 ft b.g.s. Non-detections using immunoassay testing obtained at the 0-10 ft, 20-30 ft and 30-40 ft intervals. Five samples collected from SB12 for lab analysis, immunoassay testing, field screening, and geotechnical testing.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 4
DATE 2-2-97

QC Activities (including field calibrations): Calibrated HNu to 100 ppm isobutylene at 200 p.s.i.

Health & Safety Levels/Activities: Modified Level D within established exclusion zone.

Problems Encountered/Corrective Actions Taken: None

Remarks: None

Tomorrow's Expectations: Complete all planned boring.

Signature Robert W. Sudo Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 5
DATE 2-23-97
DAY (S) M T W Th F S

Weather	Bright Sun	Clear	(Overcast)	Rain	Snow
Temp	< 32	(32-50)	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates.

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Complete drilling and sampling activities at SB08, SB09, SB13, SB15, SB16 and SB14. Each boring terminated at 20 ft b.g.s. as two non-detections on immunoassay were obtained from the 0-10 ft and 10-20 ft intervals. Three samples were collected from each boring for lab analysis, immunoassay testing, field screening, and geotechnical testing.

Each borehole was grouted using high-solids bentonite grout.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 5
DATE 2-23-97

QC Activities (including field calibrations): Calibrated Hnu to 100 ppm isobutylene at 200 psi.

Health & Safety Levels/Activities: Modified Level D within established exclusion zone.

Problems Encountered/Corrective Actions Taken: None

Remarks: Spoke with Kim Mulhern, who provided the locations for three additional soil borings (SB14, SB15 and SB16)

Tomorrow's Expectations: Contact S. Hutsell, S. Peterson and R. Keuer to verify that field activities are complete

Signature Robert W. [illegible] Title SA Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 6
DATE 2/24/97
DAY S (M) T W Th F S

Weather	Bright Sun	Clear	Overcast	(Rain)	(Snow)
Temp	(< 32)	32-50	50-70	70-85	> 85
Wind	Still	Moderate	(High)		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates.

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Drillers set up to begin drilling and sampling activities at SB17. Boreholes Completed to date were topped off using Concrete and 10" length nails were placed into the Concrete for future locating purposes.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 6
DATE 2/24/97

QC Activities (including field calibrations): None

Health & Safety Levels/Activities: Level D

Problems Encountered/Corrective Actions Taken: Due to severe weather conditions, and no 55 gallon drums available locally, no drilling and sampling activities were conducted.

Remarks: Conference call was held with USAF, NMED, USACE and Harza. Prior to demobilization and based upon field data, three additional borings are to be completed to a minimum depth of 60-ft, at locations in close proximity to the fire training pit. Locations were specified.

Tomorrow's Expectations: Resume drilling and sampling activities

Signature Robert W. Suda Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 7
DATE 2/25/97
DAY S M (T) W Th F S

Weather	Bright Sun	Clear	Overcast	Rain	(Snow)
Temp	(< 32)	32-50	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates.

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Drill and sampled soil borings SB17 and SB18 to 60 ft b.g.s. Immunoassay indicated non detections from the 0-10, 10-20, 20-30, 30-40, 40-50, and 50-60 ft intervals. As per NMED borings were terminated at 60 ft b.g.s.

Soil borings SB17 and SB18 were grouted using bentonite grout.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 7
DATE 2/25/97

QC Activities (including field calibrations): Calibrated Hnu to 100 ppm isobutylene at 200 psi.

Health & Safety Levels/Activities: Modified Level D

Problems Encountered/Corrective Actions Taken: None

Remarks: None

Tomorrow's Expectations: Begin and complete drilling activities at SB19. Prepare for demobilization

Signature Robert W. Sudu Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 8
DATE 2/26/97
DAY S M T (W) Th F S

Weather	Bright Sun	(Clear)	Overcast	Rain	Snow
Temp	< 32	(32-50)	50-70	70-85	> 85
Wind	(Still)	Moderate	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Drill and sampled soil boring SB19 to 60 ft b.g.s. Immunoassay testing indicated non detections from to 0-10 ft, 10-20 ft, 20-30 ft, 30-40 ft, 40-50 ft, 50-60 ft sample intervals. As per NMED boring was terminated at 60 ft. Boring was grouted using bentonite grout.

Staged IDW Drums on wood pallets provided by S. Hutsell. IDW staged on the south side of fire training pit (as per S. Hutsell).

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 8
DATE 2/26/97

QC Activities (including field calibrations): Calibrated thru to 100 ppm isobutylene at 200 psi.

Health & Safety Levels/Activities: Modified Level D

Problems Encountered/Corrective Actions Taken: None

Remarks: None

Tomorrow's Expectations: Complete demobilization activities

Signature Robert W. Smith Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 9
DATE 2/27/97
DAY S M T W (Th) F S

Weather	Bright Sun	(Clear)	Overcast	Rain	Snow
Temp	< 32	(32-50)	50-70	70-85	> 85
Wind	(Still)	Moderate	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental

Equipment on Site: Rotosonic Drilling equipment and support equipment

Visitors: None

Work Performed (including sampling): Drillers complete demobilization activities by completing decontamination of drilling equipment, and loading up equipment for departure.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 9
DATE 2/27/97

QC Activities (including field calibrations): None

Health & Safety Levels/Activities: Level D

Problems Encountered/Corrective Actions Taken: None

Remarks: None

Tomorrow's Expectations: None

Signature Robert W. Anderson Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 1
DATE 2/19/97
DAY S M T (W) Th F S

Weather	Bright Sun	Clear	(Overcast)	(Rain)	Snow
Temp	(< 32)	32-50	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates.

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment.

Visitors: Kim Mulhern (USACE)

Work Performed (including sampling): Conduct pre-work safety briefing. Drillers setup decon pad and decontaminate drilling equipment using high pressure hot water. Water supplied by base. Drillers unload equipment and setup at Soil Boring SB01 location. Drilling activities begin at 3 pm. Chain on the drill rig breaks at 3:00 and results in 1 hour lost time. Sampling activities terminated at 1810 hrs due to lack of day light. Samples collected at SB01 at 3ft, 19ft and 29ft for lab analysis, immunoassay testing, field screening and geotechnical testing. Samples maintained on ice overnight a field trailer.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 1
DATE 3/19/97

QC Activities (including field calibrations):

Calibrated Hnu to 100 ppm isobutylene at 200 psi.
Calibrated CGI to 0.3% pentane at 375 psi.

Health & Safety Levels/Activities: Modified Level D within exclusion zone.

Problems Encountered/Corrective Actions Taken: None with respect to Harza and HLA Alliance Environmental broke a chain on the drill rig which resulted in 1 hour lost time to repair the chain.

Remarks: Kim Mulhern stated that based upon existing site data, SB01 should be completed to a minimum depth of 80 ft bgs.

Tomorrow's Expectations: Complete drilling and sampling activities at SB02 and complete drilling and sampling at other locations.

Signature Robert W. Smith Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 2
DATE 2-20-97
DAY S M T W (Th) F S

Weather	(Bright Sun)	(Clear)	Overcast	Rain	Snow
Temp	< 32	(32-50)	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Completed drilling and sampling activities at SB01. Boring SB01 terminated a 90ft b.g.s. as two consecutive non-detections on immunoassay were obtained from the 70-80 ft and 80-90 ft intervals. Samples for lab analysis, immunoassay testing, field screening, and geotechnical testing from SB01 collected at 38 ft, 42 ft, 55 ft, 65 ft, 73 ft and 80 ft.

Begin and complete drilling and sampling activities at SB04. SB04 terminated at 20 ft b.g.s. as two consecutive non-detections were obtained on immunoassay from 0-10 ft and 10-20 ft. Samples for lab analysis, immunoassay testing, field screening and geotechnical testing from SB01 at 1 ft, 9 ft, and 19 ft b.g.s.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 2
DATE 2-20-97

QC Activities (including field calibrations): Calibrated HNu to 100 ppm isobutylene at 200 psi

Health & Safety Levels/Activities: Modified level D within established exclusion zone.

Problems Encountered/Corrective Actions Taken: None

Remarks: Drilling continues to progress slower than expected and planned.

Tomorrow's Expectations: Begin and complete drilling and sampling at location SB07 and SB02.

Signature [illegible] Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 3
DATE 2-21-97
DAY S M T W Th (F) S

Weather	Bright Sun	(Clear)	Overcast	Rain	Snow
Temp	< 32	32-50	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates

Equipment on Site: Rotosonic Drilling Equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Complete drilling and sampling activities at SB07, SB02, SB03, and SB05. Each boring terminated at 20 ft b.g.s. as two non-detections on immunoassay were obtained from the 0-10 ft and 10-20 ft intervals. Three samples collected from each boring for lab analysis, immunoassay testing, field screening and geotechnical testing.

Each boring was grouted using high-solids bentonite grout. Drillers setup drilling at SB06.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 3
DATE 2-21-97

QC Activities (including field calibrations): Calibrated HNu to 100 ppm isobutylene at 200 psi.

Health & Safety Levels/Activities: Modified Level D within established exclusion zone.

Problems Encountered/Corrective Actions Taken: Determined that two soil borings were labeled as SB05 on the Proposed Soil Boring Location Plan. Re numbered SB05 located approx. 160 ft east of the Fire training pit concrete pad as SB13.

Remarks: None

Tomorrow's Expectations: Drill SB06, SB11, and SB12.

Signature Robert W. [illegible] Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 4
DATE 3-22-96
DAY S M T W Th F (S)

Weather	Bright Sun	(Clear)	Overcast	Rain	Snow
Temp	< 32	(32-50)	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates

Equipment on Site: Retosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Complete drilling and sampling activities at SB06, SB11, SB12, and SB10. Borings SB06, SB11, and SB10 terminated at 20 ft b.g.s., as two consecutive non-detections were obtained using immunoassay from the 0-10 ft and 10-20 ft intervals. Three samples collected from each boring (SB06, SB11, SB10) for lab analysis, immunoassay testing, field screening, and geotechnical testing.

Boring SB12 terminated at 40 ft b.g.s. Non-detections using immunoassay testing obtained at the 0-10 ft, 20-30 ft and 30-40 ft intervals. Five samples collected from SB12 for lab analysis, immunoassay testing, field screening, and geotechnical testing.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 4
DATE 2-2-97

QC Activities (including field calibrations): Calibrated HNu to 100 ppm isobutylene at 200 p.s.i.

Health & Safety Levels/Activities: Modified Level D within established exclusion zone.

Problems Encountered/Corrective Actions Taken: None

Remarks: None

Tomorrow's Expectations: Complete all planned boring.

Signature Robert W. Sudo Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 5
DATE 2-23-97
DAY (S) M T W Th F S

Weather	Bright Sun	Clear	(Overcast)	Rain	Snow
Temp	< 32	(32-50)	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates.

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Complete drilling and sampling activities at SB08, SB09, SB13, SB15, SB16 and SB14. Each boring terminated at 20 ft b.g.s. as two non-detections on immunoassay were obtained from the 0-10 ft and 10-20 ft intervals. Three samples were collected from each boring for lab analysis, immunoassay testing, field screening, and geotechnical testing.

Each borehole was grouted using high-solids bentonite grout.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 5
DATE 2-23-97

QC Activities (including field calibrations): Calibrated Hnu to 100 ppm isobutylene at 200 psi.

Health & Safety Levels/Activities: Modified Level D within established exclusion zone.

Problems Encountered/Corrective Actions Taken: None

Remarks: Spoke with Kim Mulhern, who provided the locations for three additional soil borings (SB14, SB15 and SB16)

Tomorrow's Expectations: Contact S. Hutsell, S. Peterson and R. Keuer to verify that field activities are complete

Signature Robert W. [illegible] Title SA Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 6
DATE 2/24/97
DAY S (M) T W Th F S

Weather	Bright Sun	Clear	Overcast	(Rain)	(Snow)
Temp	(< 32)	32-50	50-70	70-85	> 85
Wind	Still	Moderate	(High)		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates.

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Drillers set up to begin drilling and sampling activities at SB17. Boreholes Completed to date were topped off using Concrete and 10" length nails were placed into the Concrete for future locating purposes.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 6
DATE 2/24/97

QC Activities (including field calibrations): None

Health & Safety Levels/Activities: Level D

Problems Encountered/Corrective Actions Taken: Due to severe weather conditions, and no 55 gallon drums available locally, no drilling and sampling activities were conducted.

Remarks: Conference call was held with USAF, NMED, USACE and Harza. Prior to demobilization and based upon field data, three additional borings are to be completed to a minimum depth of 60-ft, at locations in close proximity to the fire training pit. Locations were specified.

Tomorrow's Expectations: Resume drilling and sampling activities

Signature Robert W. Suda Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 7
DATE 2/25/97
DAY S M (T) W Th F S

Weather	Bright Sun	Clear	Overcast	Rain	(Snow)
Temp	(< 32)	32-50	50-70	70-85	> 85
Wind	Still	(Moderate)	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates.

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Drill and sampled soil borings SB17 and SB18 to 60 ft b.g.s. Immunoassay indicated non detections from the 0-10, 10-20, 20-30, 30-40, 40-50, and 50-60 ft intervals. As per NMED borings were terminated at 60 ft b.g.s.

Soil borings SB17 and SB18 were grouted using bentonite grout.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 7
DATE 2/25/97

QC Activities (including field calibrations): Calibrated Hnu to 100 ppm isobutylene at 200 psi.

Health & Safety Levels/Activities: Modified Level D

Problems Encountered/Corrective Actions Taken: None

Remarks: None

Tomorrow's Expectations: Begin and complete drilling activities at SB19. Prepare for demobilization

Signature Robert W. Sudu Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 8
DATE 2/26/97
DAY S M T (W) Th F S

Weather	Bright Sun	(Clear)	Overcast	Rain	Snow
Temp	< 32	(32-50)	50-70	70-85	> 85
Wind	(Still)	Moderate	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental, Harding Lawson Associates

Equipment on Site: Rotosonic Drilling equipment and support equipment, field sampling and safety equipment

Visitors: None

Work Performed (including sampling): Drill and sampled soil boring SB19 to 60 ft b.g.s. Immunoassay testing indicated non detections from to 0-10 ft, 10-20 ft, 20-30 ft, 30-40 ft, 40-50 ft, 50-60 ft sample intervals. As per NMED boring was terminated at 60 ft. Boring was grouted using bentonite grout.

Staged IDW Drums on wood pallets provided by S. Hutsell. IDW staged on the south side of fire training pit (as per S. Hutsell).

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 8
DATE 2/26/97

QC Activities (including field calibrations): Calibrated thru to 100 ppm isobutylene at 200 psi.

Health & Safety Levels/Activities: Modified Level D

Problems Encountered/Corrective Actions Taken: None

Remarks: None

Tomorrow's Expectations: Complete demobilization activities

Signature Robert W. Smith Title Site Manager

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 1 of 2)

PROJECT NAME Cannon AFB, FTA4
PROJECT NUMBER 5644M
CONTRACT NO. DACW45-94-D-0044
USACE PROJECT MANAGER S. Peterson

REPORT NO. 9
DATE 2/27/97
DAY S M T W (Th) F S

Weather	Bright Sun	(Clear)	Overcast	Rain	Snow
Temp	< 32	(32-50)	50-70	70-85	> 85
Wind	(Still)	Moderate	High		
Humidity	Dry	(Moderate)	Humid		

SITE ACTIVITIES

Subcontractors on Site: Alliance Environmental

Equipment on Site: Rotosonic Drilling equipment and support equipment

Visitors: None

Work Performed (including sampling): Drillers complete demobilization activities by completing decontamination of drilling equipment, and loading up equipment for departure.

HARZA ENVIRONMENTAL SERVICES

DAILY QUALITY CONTROL REPORT
(Sheet 2 of 2)

PROJECT NAME: Cannon AFB, FTA4
PROJECT NO. 5644M

REPORT NO. 9
DATE 2/27/97

QC Activities (including field calibrations): None

Health & Safety Levels/Activities: Level D

Problems Encountered/Corrective Actions Taken: None

Remarks: None

Tomorrow's Expectations: None

Signature Robert W. Anderson Title Site Manager