

RL53 DATA VERIFICATION SUMMARY REPORT
for
samples collected from
CAMP STANLEY STORAGE ACTIVITY
BOERNE, TEXAS

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INTRODUCTION

The following data verification summary report covers environmental soil samples collected from the Camp Stanley Site (under RL53) on August 25, 2000. The samples from the following laboratory Sample Delivery Group (SDG) were analyzed for TCLP metals including antimony, beryllium, selenium, and silver and total petroleum hydrocarbons (TPH):

33385

Parsons ES did not collect any ambient samples for TPH analysis due to the lack of determined source from the site. All samples were collected by Parsons Engineering Science (Parsons ES). All analyses were performed by APPL, Inc. following procedures outlined in the AFCEE QAPP, version 3.0 or the TNRCC Method 1005 for the TPH analyses.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and verified following the guidelines outlined in the AFCEE QAPP, version 3.0 or the TNRCC Method. Information reviewed in the data packages include sample results; the summary of laboratory quality control results; case narrative; raw data; and chain-of-custody. The analyses and findings presented in this report are based on the reviewed information, and whether guidelines in the AFCEE QAPP or the TNRCC method were met.

METALS SDG 33385

General

This SDG consisted of three (3) confirmation environmental soil samples. The samples were collected on April 25, 2000 and analyzed for TCLP metals; antimony, beryllium, selenium, and silver.

The TCLP extraction was performed using United States Environmental Protection Agency (USEPA) SW846 Method 1311. The antimony, beryllium, selenium and silver analyses were performed using USEPA SW846 Method 6010B. All samples in this SDG were analyzed following the procedures outlined in the AFCEE QAPP. All samples collected were prepared and analyzed within the holding times required by the method.

Accuracy

Accuracy is normally evaluated using the %R results for the MS/MSD samples and LCS sample. There was no MS/MSD analysis provided for this SDG.

The LCS %Rs were within acceptance criteria.

Precision

Precision is normally evaluated using the Relative Percent Difference (RPD) results obtained from MS/MSD results; and the laboratory and field duplicate analyte values. There was no MS/MSD or field duplicate sample provided in this SDG.

Completeness

Completeness has been evaluated by comparing the total number of samples collected with the total number of samples with valid analytical data.

All results were considered usable. The completeness for this SDG is 100% compared to the minimum acceptance limit of 90%.

Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents actual site conditions. Representativeness has been evaluated by:

- Comparing the chain-of-custody procedures to those described in the AFCEE QAPP;
- Comparing actual analytical procedures to those described in the AFCEE QAPP;
- Evaluating holding times; and

- Examining laboratory blanks for cross contamination of samples during the analysis.

All samples in this SDG were analyzed following the chain-of-custody (COC) and analytical procedures described in the AFCEE QAPP. All samples were prepared and analyzed within the holding times required for the analysis.

- All initial and continuing calibration criteria were met.
- All second source calibration criteria were met.
- All interference check criteria were met.
- The results for the sample chosen for the dilution test were less than the reporting limit. Therefore, the dilution test results were not applicable.
- All post digestion spike addition criteria were met.

There was one method blank and several calibration blanks associated with the metal analyses in this SDG. All blanks were free of any metals of concern above the RL.

TPH SDG 33385

General

This SDG consisted of three (3) confirmation environmental soil samples. The samples were collected on April 25, 2000 and analyzed for total petroleum hydrocarbons (TPH).

The TPH analyses were performed using TNRCC Method 1005. All samples in this SDG were analyzed following the procedures outlined in the method. All samples collected were prepared and analyzed within the holding times required by the method.

Accuracy

Accuracy is normally evaluated using the %R results for the MS/MSD samples and LCS/LCSD samples. There was no MS/MSD analysis provided for this SDG.

All the LCS/LCSD %Rs were within acceptance criteria.

Precision

Precision is normally evaluated using the Relative Percent Difference (RPD) results obtained from MS/MSD results; LCS/LCSD results; and the field duplicate analyte values. There was no MS/MSD or field duplicate sample provided in this SDG.

All the LCS/LCSD RPDs were within acceptance criteria.

Completeness

Completeness has been evaluated by comparing the total number of samples collected with the total number of samples with valid analytical data.

All results were considered usable. The completeness for this SDG is 100% compared to the minimum acceptance limit of 90%.

Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents actual site conditions. Representativeness has been evaluated by:

- Comparing the chain-of-custody procedures to those described in the TNRCC method;
- Comparing actual analytical procedures to those described in the TNRCC method;
- Evaluating holding times; and

- Examining laboratory blanks for cross contamination of samples during the analysis.

All samples in this SDG were analyzed following the chain-of-custody (COC) and analytical procedures described in the method. All samples were prepared and analyzed within the holding times required for the analysis.

- All initial and continuing calibration criteria were met.
- All second source calibration criteria were met.

There was one method blank and several calibration blanks associated with the TPH analyses in this SDG. All blanks were free of any TPH above the RL.