

Data Validation Report

Project/Site Name: San Gabriel Valley NPL Area 3
Sample Delivery Group (SDG): 924163
Parameters: 1,2,3-Trichloropropane
Method: EPA 524.2M
Laboratory: Truesdail Laboratories, Inc., Tustin, CA

Samples:

| <u>Sample ID</u> | <u>Sample Description</u> | <u>Collection Date</u> | <u>Matrix</u> |
|------------------|---------------------------|------------------------|---------------|
| AH03210 | Field Sample | 11/7/03 | Soil |
| AH03211 | Field Sample | 11/7/03 | Soil |

Introduction/Summary

This data review report covers the sample delivery group and associated samples listed on the cover sheet. The analyses were per USEPA Method 524.2M. The quality assurance and quality control procedures (QA/QC) were per project specific sampling and analysis plan.

This review is based on the method and project approved QA/QC procedures and EPA data validation functional guidance; the following subsections correlate to these guidelines. The sections detail noted deviations if any. Tables summarizing all data qualification flags are provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified protocols (P) or is of a technical advisory nature due to sample matrix (A).

Data qualifiers, if any, are summarized at the end of this report.

I. Holding Times

Samples were analyzed within 14 days (7 days if unpreserved) of collection as required.

II. GC/MS Instrument Performance Check

Instrument performance was checked prior to initial calibration and calibration verification. All ion abundance requirements were met for BFB as listed below:

| <u>m/z</u> | <u>ION ABUNDANCE CRITERIA</u> |
|------------|------------------------------------|
| 50 | 15.0 - 40.0% of m/z 95 |
| 75 | 30.0 - 60.0% of m/z 95 |
| 95 | Base peak, 100% relative abundance |
| 96 | 5.0 - 9.0% of m/z 95 |
| 173 | Less than 2.0% of m/z 174 |
| 174 | Greater than 50% of m/z 95 |
| 175 | 5.0 - 9.0% of m/z 174 |
| 176 | 95.0 - 101.0% of m/z 174 |
| 177 | 5.0 - 9.0% of m/z 176 |

III. Initial Calibration

An initial five-point calibration was performed using the required concentrations prior to sample analysis.

Percent relative standard deviations (%RSD) were less than 15%.

Average relative response factors (RRF) were equal to or greater than 0.30..

Second-source calibration verification was carried out after five-point initial calibration.

IV. Continuing Calibration

Continuing calibration was verified daily before sample analysis and every 12-hours of analysis time using mid-level standards.

The relative response factor (RRF) percent drifts were less than 30% and were within $\pm 30\%$ of the expected values.

V. Blanks

Method blank analysis was performed at the frequency of once for every analytical batch.

The concentrations of analytes in the method blanks were less than the reporting limits, with no detections reported.

There were no trip blanks reported for this SDG.

VI. System Monitoring Compounds

No surrogate analysis was reported.

VII. Laboratory Control Sample (LCS)

An LCS/LCSD was analyzed per each analytical batch.

All percent recoveries and RPD were within project specified control limits for precision and accuracy.

VIII. Matrix Spike/Matrix Spike Duplicates

An MS/MSD was analyzed per analytical batch.

All percent recoveries and RPD were within project specified control limits for precision and accuracy.

IX. Laboratory Duplicates

Sample AH03210 was analyzed in duplicates both of which were nondetects (ND).

X. Internal Standards

Internal standards were added to all calibration standards, LCS, samples and blanks.

XI. Compound Quantitation and Reporting Limits

Compound quantitation algorithm was verified to be correct.

The MDLs have been provided by the laboratory on the sample reports along with the reporting limits. The laboratory has established method detection limits (MDLs) per 40 CFR Part 136 Appendix B. The laboratory MDLs are found to be consistent with project needs.

XII. Tentatively Identified Compounds (TICs)

TICs reports were not required for this SDG.

XIII. System Performance

QC data at large indicate acceptable performance.

XIV. Overall Assessment of Data

All data were found to be acceptable per specifications as noted above under introduction/summary with the exception of samples and analytes listed in the table at the end of this report, if any.

**San Gabriel Valley NPL Area 3 1,2,3-Trichloropropane - Data Qualification
Summary – SDG 924163**

No data have been qualified within this SDG.

**San Gabriel Valley NPL Area 3 1,2,3-Trichloropropane – Blanks Data Qualification
Summary – SDG 924163**

No data have been qualified within this SDG.