



ICF International / Laboratory Data Consultants

Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Lisa Hanusiak, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Rose Fong, ESAT Task Order Manager (TOM)
Quality Assurance (QA) Program, MTS-3

FROM: Doug Lindelof, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-06-041
Technical Direction Form No.: 00105050 Amendment 2

DATE: March 18, 2008

SUBJECT: Tier 1A Review of 1,2,3-Trichloropropane Analytical Data for the Alhambra site,
Case: None Provided, SDGs: 06H226.

EMAX Laboratories, Inc. (EMAX) analyzed 4 groundwater samples for 1,2,3-trichloropropane by EPA Method 8260B selective ion monitoring (SIM).

A forms-only evaluation of the data packages was performed to identify any key analytical issues/deficiencies affecting data quality. This evaluation approach is employed when in-depth data review is not required as indicated by the data user. For areas of concern, see lettered and additional comments.

The evaluation includes: a review of the data package for completeness, a review of the chain of custody (COC) forms (against laboratory reported information, for signatures, for sample condition upon laboratory receipt and for sample preservation), a review of holding times, a review of quality control (QC) summaries, a review of blanks for contamination, a random check of reported results against raw data, and a random check of raw data for interference problems or system control problems (e.g. baseline anomalies, baseline drifts, etc.).

The following data quality issues should be noted:

- A. Results for the following analyte are qualified as estimated due to a laboratory control sample/laboratory control sample duplicate (LCS/LCSD) problem and should be flagged "J".

X 1,2,3-Trichloropropane in all samples and method blank MBLK1W

The LCS/LCSD relative percent difference (23%) exceeded the laboratory QC limit of $\leq 20\%$.

- B. The detected result for the following analyte is qualified as estimated due to a concentration exceeding the calibration range and should be flagged AJ@.

X 1,2,3-Trichloropropane in sample Y2TD3

The concentration of 1,2,3-trichloropropane in the undiluted analysis of sample Y2TD3 was 0.15 ug/L, which exceeded the 0.005-0.10 ug/L calibration range. The laboratory did not reanalyze sample Y2TD3 at a dilution. This concentration is considered to be qualitatively acceptable but quantitatively questionable and should be considered as the minimum concentration at which 1,2,3-trichloropropane is present in the sample.

Sampling Issues:

None.

A Table 1A was not requested.

This report has been reviewed by the EPA TOM for the ESAT contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," July 2007.

- U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.
- L Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
- J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.
- R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.