

ER PROGRAM DATA ASSESSMENT
SUMMARY REPORT FORM

Batch No. 8908L482 Site 881 Hillside
 Laboratory Roy F. Weston - Lionville No. of Samples/Matrix 7/Water
 SOW # 10/86 (Rev. 2/88) Reviewer Org. TechLaw, Inc.
 Sample Numbers TB082189005, SW030005, SW030005D, SW030005FB, SW069005, SW068005, SW067005

Data Assessment Summary

	VOA	Comments
1. Holding Times	<u>A</u>	<u>Action Item 1</u>
2. GC/MS Tune/Instr. Perf.	<u>V</u>	
3. Calibrations	<u>A</u>	<u>Action Items 2,3; Comment 1</u>
4. Blanks	<u>A</u>	<u>Action Item 4; Comment 2</u>
5. Surrogates	<u>A</u>	<u>Action Item 5</u>
6. Matrix Spike/Dup.	<u>X</u>	<u>Comment 3</u>
7. Other QC	<u>V</u>	
8. Internal Standards	<u>V</u>	
9. Compound Identification	<u>X</u>	<u>Comments 4,5</u>
10. System Performance	<u>X</u>	<u>Comments 6,7,8</u>
11. Overall Assessment	<u>A</u>	<u>Data acceptable with qualifications.</u>

V = Data had no problems.
 A = Data acceptable but qualified due to problems.
 R = Data rejected.
 X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Results Summary Tables.)

ADMIN RECORD

"REVIEWED FOR CLASSIFICATION
 By R. B. Hoffman (u)
 Date 7-11-90

REVIEWED FOR CLASSIFICATION/UCNI
 By George H. Seelink
 Date 6/28/90

8L482/voa
 A-DU01-0000B2

- Action Items:** 1) Non-detected results for aromatic compounds in all samples are estimated and undetected (UJ) and the positive Toluene result in sample SW069005 is estimated (J) because holding times exceeded seven days.
- 2) 2-Butanone's average RRF and RRF50 were below 0.05 in both calibrations. Non-detected results for 2-Butanone are rejected (R) in all samples.
- 3) Acetone's %D exceeded 50% in the continuing calibration. Non-detect results for Acetone are rejected (R) and the positive result in SW030005FB would have been estimated had blank criteria been met. See Action Item 4.
- 4) The method blank was contaminated with Methylene Chloride and Acetone. Positive results for Methylene Chloride in all samples and Acetone in sample SW030005FB are estimated and undetected (UJ) as per the Functional Guidelines criteria (5x and 10x rules).
- 5) Surrogate recovery exceeded criteria in samples TB082189005, SW030005FB, and SW068005. All results not previously rejected are estimated (J or UJ) in these samples.

- Comments:** 1) Two other compounds failing calibration criteria did not require data qualification because they were undetected.
- 2) The method blank was contaminated with 2 TICs.
- 3) Spike recoveries for 3 compounds were high in both MS and MSD analyses. However, no action is taken because results are not qualified solely on MS/MSD data.
- 4) TICs were found in samples TB082189005, SW030005D, SW030005FB, SW069005, and SW067005. A TIC was found in the reanalysis of SW068005 although not in the original run. The spectra provided for the identification of these compounds are apparently unenhanced and show only m/z 44 indicative of Carbon Dioxide. Two of the TICs have similar retention times with the TICs in the blank.
- 5) The RRTs for surrogate standard 1 and Vinyl Chloride in sample SW068005 were greater than 0.06 RRT units from the RRT of the continuing calibration. Vinyl Chloride's identity was confirmed by the mass spectrum. The chromatogram was displayed from a retention time observed later than the elution of Vinyl Chloride such that the peak and any others which may be present could not be seen.

Comments: (cont) 6) All standard, blank, and sample chromatograms show a very high, initial baseline.
For some samples the baseline height was greater than internal standard peak heights.

7) It is of concern that surrogates were out on both analyses of the trip and field blanks, which should be
composed of reagent water free of potential interferences. This may indicate a systems problem rather than the
matrix interference stated in the Case Narrative.

8) Results from the reanalysis of sample SW069005 were not reported because the holding time exceeded 14
days and several compounds detected in the original analysis were not detected in the reanalysis. Results from the
reanalyses of samples TB082189005 and SW030005FB are not used because the holding time exceeded 14 days
and surrogate recoveries exceeded criteria.

Note: Data Summary Tables are attached.

Willie T. Fee
Reviewer Signature

4/18/90
Date

