

ER PROGRAM DATA ASSESSMENT
SUMMARY REPORT FORM

Batch No. 8908L401 Site 881 Hillside
Laboratory Roy F. Weston - Lionville No. of Samples/Matrix 4/Water
SOW # 10/86 (Rev. 2/88) Reviewer Org. TechLaw, Inc.
Sample Numbers G52870889002, G51870889002, G05870889002, GTB081489002

Data Assessment Summary

	VOA	Comments
1. Holding Times	<u>A</u>	<u>Action Item 1</u>
2. GC/MS Tune/Instr. Perf.	<u>X</u>	<u>Comment 1</u>
3. Calibrations	<u>A</u>	<u>Action Items 2,3; Comment 2</u>
4. Blanks	<u>A</u>	<u>Action Item 4</u>
5. Surrogates	<u>V</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>V</u>	
10. System Performance	<u>X</u>	<u>Comment 4,5</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.)

REVIEWED FOR CLASSIFICATION
ADMIN RECORD
By R. B. Hoffman
Date 7-11-90

REVIEWED FOR CLASSIFICATION/UCNI
By George H. Setlock
Date 6/27/90

8L401/voa
A-CU01-000085

- Action Items:** 1) Non-detected results for aromatic compounds in all samples are estimated and undetected (UJ) because the holding time exceeded seven days.
- 2) Non-detected results for 2-Butanone in all samples are rejected (R) because 2-Butanone's RRFs in all calibrations were less than 0.05.
- 3) The positive results for Acetone in all samples are estimated (J) because Acetone's %RSD exceeded 30% in the initial calibration and its %D exceeded 50% in the continuing calibration of 8/24/89.
- 4) As a result of method blank contamination, the positive results for Methylene Chloride in all samples are estimated and undetected (UJ) according to the Function Guidelines criteria (10x rule).

- Comments:** 1) The GC/MS Tune and mass calibration preceding the initial calibration on 8/17/89 did not meet the BFB Ion Abundance criteria for m/z 176. However, no action is taken because data does not appear to be affected and the GC/MS tune preceding sample analysis met all criteria.
- 2) Chloroethane had a %RSD in the initial calibration and several compounds had %Ds in the continuing calibrations exceeding criteria. No action is required because there were no positive results for these compounds.
- 3) A matrix spike/matrix spike duplicate was not analyzed with samples from this case. No action is taken.
- 4) The trip blank, GTB081489002, was contaminated with more than five times the CROL of Acetone. The elevated levels of Acetone in the samples is reflected by the low RRFs for Acetone in all calibrations.
- 5) All chromatograms exhibited an early elevated baseline which may have affected the results for all early eluting compounds.

Note: Data Summary Tables are attached.

William T Fee
Reviewer Signature

4/26/90
Date

TABLE #: 8908L401
 SITE NAME: 881 Hillside
 CLP VOLATILE ORGANIC ANALYSIS: Low Water

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 ANALYTICAL RESULTS (ppb)

Sample Location	Sample Number	Method	CRCL ug/L (ppb)	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	
	VB/LK	G52870889002	8/14/89		G51870889002	8/14/89		G05870889002	8/14/89		GTTB081489002	8/14/89		VB/LK	8/14/89		G51870889002DL	8/14/89	
Sample Number																			
Sampling Date																			
Remarks		Method Blank									Tri Blank			Method Blank			5x dilution		
Volatiles																			
Compound																			
Chloroethane	10		10 U V		10 U V		10 U V		10 U V		10 U V		10 U V				50 U V		
Bromoethane	10		10 U V		10 U V		10 U V		10 U V		10 U V		10 U V				50 U V		
Vinyl chloride	10		10 U V		10 U V		10 U V		10 U V		10 U V		10 U V				50 U V		
Chloroethane	10		10 U V		10 U V		10 U V		10 U V		10 U V		10 U V				50 U V		
Methylene chloride	5	4 ppb	9 U A		11 U A		5 U A		5 U A		5 U A		5 U A		5 ppb		50 U A		
Acetone	10		190 J A		440 E		100 J A		50 J A		290 J A								
Carbon disulfide	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
1,1-Dichloroethane	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
1,1-Dichloroethane	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
1,2-Dichloroethane (Total)	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
Chloroform	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
1,2-Dichloroethane	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
2-Butanone	10		10 U R		10 U R		10 U R		10 U R		10 U R		10 U R				50 U R		
1,1,1-Trichloroethane	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
Carbon tetrachloride	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
Vinyl acetate	10		10 U V		10 U V		10 U V		10 U V		10 U V		10 U V				50 U V		
Bromodichloroethane	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
1,2-Dichloropropane	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
dis-1,3-Dichloropropene	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
Trichloroethene	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
Dibromochloromethane	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
1,1,2-Trichloroethane	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
Benzene	5		5 U A		5 U A		5 U A		5 U A		5 U A		5 U A				25 U A		
trans-1,3-Dichloropropene	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
Bromoform	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
4-Methyl-2-pentanone	10		10 U V		10 U V		10 U V		10 U V		10 U V		10 U V				50 U V		
2-Hexanone	10		10 U V		10 U V		10 U V		10 U V		10 U V		10 U V				50 U V		
Tetrachloroethene	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				5 J A		
1,1,2,2-Tetrachloroethane	5		5 U V		5 U V		5 U V		5 U V		5 U V		5 U V				25 U V		
Toluene	5		5 U A		5 U A		5 U A		5 U A		5 U A		5 U A				25 U A		
Chlorobenzene	5		5 U A		5 U A		5 U A		5 U A		5 U A		5 U A				25 U A		
Ethylbenzene	5		5 U A		5 U A		5 U A		5 U A		5 U A		5 U A				25 U A		
Styrene	5		5 U A		5 U A		5 U A		5 U A		5 U A		5 U A				25 U A		
Xylenes (Total)	5		5 U A		5 U A		5 U A		5 U A		5 U A		5 U A				25 U A		
Total Organic Concentration (ppb)	4		190		445		100		50		5		285						

U Indicates the compound was not detected above the Required Quantitation Limit.
 J Quantitation is approximate due to limitations identified during the quality control review.
 E Exceeds calibration range, dilute & reanalyze.
 CRQL Contract Required Quantitation Limit in Micrograms per Liter (ug/L), Parts per billion (ppb).
 DQ Data Qualifier
 V Valid
 A Acceptable with qualifications
 R Rejected
 L4011/LK48