

ER DEPARTMENT DATA ASSESSMENT
SUMMARY REPORT FORM

Batch No. 9003L828 Site Surface Water
Laboratory Roy F. Weston - Lionville No. of Samples/Matrix 7/Water
SOW # 10/86 (Rev. 2/88) Reviewer Org. TechLaw, Inc.
Sample Numbers TB031690003, SW07790003, SW09390003, SW09490003, SW09590003, SW09890003, SW10090003

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 2-4; Comment 2</u>
4. Blanks	<u>V</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>X</u>	<u>Comments 4.5</u>
8. Internal Standards	<u>A</u>	<u>Action Item 6</u>
9. Compound Identification	<u>X</u>	<u>Comment 6</u>
10. System Performance	<u>X</u>	<u>Comment 7</u>
11. Overall Assessment	<u>A</u>	<u>Data Acceptable with Qualification</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 Data Summary Table.)

REVIEWED FOR CLASSIFICATION
By [Signature]
Date 10/28/91

Action Items: 1) The nondetected results for aromatic compounds in all samples are estimated and undetected (UJ) because holding times exceeded seven days.

2) Acetone's % RSD exceeded 50% in the initial calibration. The nondetected results for Acetone are rejected (R) in all samples.

3) A RRF20 was not generated for 2-Butanone in the initial calibration. As a result, 2-Butanone's % RSD exceeded 50%, thus the nondetected 2-Butanone results are rejected (R) in all samples.

4) The % Ds for Bromomethane and Trichloroethane exceeded 50% in the continuing calibration. The nondetected Bromomethane results in all samples and the nondetected Trichloroethane results in all samples except SW07790003 are rejected (R). The positive result for Trichloroethane in sample SW07790003 is estimated (J).

5) One surrogate recovery exceeded criteria in sample SW09890003. All results in the sample are estimated and undetected (UJ) except for those compounds previously rejected (R) due to calibration problems. See Action Items 2, 3 and 4. Although a reanalysis of SW09890003 was not performed, this sample was used for the MS/MSD analysis and all surrogates were within criteria in these samples.

6) The areas for the internal standard 1,4-Difluorobenzene were below QC criteria in samples SW07790003, SW09590003 and SW09890003. All compounds quantitated by this internal standard except Trichloroethane in samples SW09590003 and SW09890003 are estimated (J or UJ) in these samples. The Trichloroethane results in these two samples are rejected (R) due to calibration problems. See Action Item 4. 1,4-Difluorobenzene also failed area criteria in the MSD sample.

Comments: 1) The Form 5 for the 3/16/90 BFB Tune contained transcription problems. However, the correct results taken from the raw data were within criteria and no action is taken.

2) Several compounds, including surrogates, exceeded the %RSD and %D criteria in the calibrations. Data is not qualified since these compounds were undetected in the associated samples.

3) Three percent recoveries in the MS sample and four percent recoveries in the MSD sample failed the QC limits for the MS/MSD analysis. Furthermore, one RPD also failed QC criteria. However, no action is necessary because results are not qualified based solely on MS/MSD data.

Comments: (cont) 4) The chain-of-custody record indicated that air bubbles were present in sample TB031690003's vial. The sample's data may have been adversely affected.

5) Sample SW10090003 was within this batch; however, the chain-of-custody record indicated that the sample's vials broke in shipment. Consequently, the sample was not analyzed.

6) The chromatogram for sample TB031690003 was missing. Since inspection of the chromatogram to determine the presence of compounds is impossible, the quantitation report for this sample is presumed to be correct. The quantitation report indicated this sample contained no compounds.

7) All chromatograms illustrated both column bleed and the presence of an air peak.

Note: Data Summary Tables are attached.

Bill Fee for Lisa Contreras - Hendler
Reviewer Signature

7/6/80
Date

SITE NAME: Surface Water
CLP VOLATILE ORGANIC ANALYSIS: Low Water

ANALYTICAL RESULTS (ppb)

Sample Number	VBLK-040	TB031690003	SW07790003	SW06390003	SW09490003	SW09590003	SW08990003	SW10990003
Sampling Date	03/16/90	03/16/90	03/16/90	03/16/90	03/16/90	03/16/90	03/16/90	03/16/90
Analysis Date	03/26/90	03/26/90	03/26/90	03/26/90	03/26/90	03/26/90	03/26/90	Not Analyzed
Remarks	Method Blank	Trip Blank						
Volatiles	CRQL	DQ	DQ	DQ	DQ	DQ	DQ	DQ
Compound	ug/L (ppb)							
Chloromethane	10	10 U V	10 U V	10 U V	10 U V	10 U V	10 U V	10 U V
Bromomethane	10	10 U R	10 U R	10 U R	10 U R	10 U R	10 U R	10 U R
Vinyl chloride	10	10 U V	10 U V	10 U V	10 U V	10 U V	10 U V	10 U V
Chloroethane	10	10 U V	10 U V	10 U V	10 U V	10 U V	10 U V	10 U V
Methylene chloride	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
Acetone	10	10 U R	10 U R	10 U R	10 U R	10 U R	10 U R	10 U R
Carbon disulfide	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
1,1-Dichloroethane	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
1,1-Dichloroethane	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 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	5 U V
Chloroform	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
1,2-Dichloroethane	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
2-Butanone	10	10 U R	10 U R	10 U R	10 U R	10 U R	10 U R	10 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	5 U V
Carbon tetrachloride	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
Vinyl acetate	10	10 U V	10 U V	10 U V	10 U V	10 U V	10 U V	10 U V
Bromodichloromethane	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
1,2-Dichloropropane	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
cis-1,3-Dichloropropene	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
Trichloroethene	5	5 U R	83 J A	5 U R	5 U R	5 U R	5 U R	5 U R
Dibromochloromethane	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 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	5 U V
Benzene	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
trans-1,3-Dichloropropene	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
Bromoform	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 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	10 U V
2-Hexanone	10	10 U V	10 U V	10 U V	10 U V	10 U V	10 U V	10 U V
Tetrachloroethene	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
1,1,2,2-Tetrachloroethane	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
Toluene	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
Chlorobenzene	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
Ethylbenzene	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
Styrene	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
Xylenes (Total)	5	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V	5 U V
Total Organic Concentration (ppb)		0	83	0	0	0	0	0

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).

NA Not Analyzed

DQ Data Qualifier
V Valid
A Acceptable with qualifications
R Rejected

