EG&G ER Program
Rocky Flats Plant

(03/12/90)

ER PROGRAM DATA ASSESSMENT SUMMARY REPORT FORM

Batch No. E89-1281/3rd Quarter 1989 **Site** Area 2 - 881 Hillside

Laboratory 881 - General Laboratory **No. of Samples/Matrix** 13/Water

SOW # 10/86 (Rev. 2/88) **Reviewer Org.** TechLaw, Inc.

Sample Numbers TB7-26, FB7-26, 45-87, 5-87, 69-86, 10-74, 43-87, TB7-31, FB7-31, 8-87, 1-87, R59-86, 55-86

Data Assessment Summary

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

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
Date 7-11-90

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

A-OU01-000031

Action Items: 1) The following samples exceeded the seven day holding time criteria: TB7-26, FB7-26, 45-87, 5-87, 69-86, 10-74, 10-74DL, 43-87, 43-87DL (x50 Dil), and 43-87DL (x100 Dil). Non-detect aromatic compounds are estimated and undetected (UJ) and positive results for aromatic compounds are estimated (J) in these samples.

2) 2-Butanone had Relative Response Factors (RRFs) less than 0.05 in all calibrations. The non-detect 2-Butanone results are rejected (R) in all samples.

3) Vinyl Acetate had %Differences (%Ds) that were excessively high (>50%) in both continuing calibrations. The non-detect Vinyl Acetate values are rejected (R) in all samples.

4) 1,2-Dichloroethane-d4 exceeded the surrogate %Recovery criteria in samples 10-74 and 43-87. The non-detect values are estimated and undetected (UJ) and the positive values are estimated (J) in these samples.

5) The mass spectra for Carbon Tetrachloride did not verify a positive result in sample 43-87. Carbon Tetrachloride was reported as a non-detect on the Results Summary Table for this sample.

Comments: 1) Chloromethane exceeded the %D criteria in both continuing calibrations. Data was not qualified because Chloromethane was undetected in the associated samples.

2) The matrix spike QC analysis was submitted in the associated batch E89-1281. This batch was divided into two different reports due to resampling. The laboratory should have performed two matrix spike analysis because the number of samples in both cases exceeded 20 samples.

Note: Data Summary Tables are attached.

Lisa Contreras-Hendler
Reviewer Signature

3-16-90
Date

TABLE #: E89-1281 / 3rd Quarter 1989

SITE NAME: Area 2 - 881 Hillside

CLP VOLATILE ORGANIC ANALYSIS: Low Water

ANALYTICAL RESULTS (ppb)

Sample Location											
Sample Number		MB8-03	TB7-26	FB7-26	45-87	5-87	69-86	10-74	10-74DL	43-87	43-87DL
Sampling Date			7/26/89	7/26/89	7/26/89	7/26/89	7/26/89	7/26/89	7/26/89	7/26/89	7/26/89
Remarks		Method Blank	Trip Blank	Field Blank					x25 dilution		x50 dilution
Volatile Compound	CRQL ug/L (ppb)	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ
Chloromethane	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 UJ A	250 U V	10 UJ A	500 U V
Bromomethane	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 UJ A	250 U V	10 UJ A	500 U V
Vinyl chloride	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 UJ A	250 U V	10 UJ A	500 U V
Chloroethane	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 UJ A	250 U V	10 UJ A	500 U V
Methylene chloride	5		9 V	6 V	5 U V	5 U V	5 U V	5 UJ A	120 U V	35 J A	250 U V
Acetone	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 UJ A	250 U V	10 UJ A	500 U V
Carbon disulfide	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	5 UJ A	250 U V
1,1-Dichloroethene	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	11000 E	10000 E
1,1-Dichloroethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	140 J A	250 U V
1,2-Dichloroethene (Total)	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	5 UJ A	250 U V
Chloroform	5		5 U V	5 U V	5 U V	5 U V	5 U V	73 J A	60 J A	5 UJ A	250 U V
1,2-Dichloroethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	25 J A	250 U V
2-Butanone	10		10 U R	10 U R	10 U R	10 U R	10 U R	10 U R	250 U R	10 U R	500 U R
1,1,1-Trichloroethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	13000 E	17000 E
Carbon tetrachloride	5		5 U V	5 U V	5 U V	5 U V	5 U V	5000 E	3200 V	5 UJ A	250 U V
Vinyl acetate	10		10 U R	10 U R	10 U R	10 U R	10 U R	10 U R	250 U R	10 U R	500 U R
Bromodichloromethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	5 UJ A	250 U V
1,2-Dichloropropane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	5 UJ A	250 U V
cis-1,3-Dichloropropene	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	5 UJ A	250 U V
Trichloroethene	5		5 U V	5 U V	5 U V	5 U V	5 U V	1200 E	990 V	6600 E	10000 E
Dibromochloromethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	5 UJ A	250 U V
1,1,2-Trichloroethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	60 J A	250 U V
Benzene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	120 UJ A	5 UJ A	250 UJ A
trans-1,3-Dichloropropene	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	5 UJ A	250 U V
Bromoform	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	5 UJ A	250 U V
4-Methyl-2-pentanone	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 UJ A	250 U V	10 UJ A	500 U V
2-Hexanone	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 UJ A	250 U V	10 UJ A	500 U V
Tetrachloroethene	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	4300 E	5500 V
1,1,2,2-Tetrachloroethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 UJ A	120 U V	5 UJ A	250 U V
Toluene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	120 UJ A	77 J A	66 J A
Chlorobenzene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	120 UJ A	5 UJ A	250 UJ A
Ethylbenzene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	120 UJ A	6 J A	250 UJ A
Styrene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	120 UJ A	5 UJ A	250 UJ A
Xylenes (Total)	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	120 UJ A	2 J A	250 UJ A
Total Organic Concentration (ppb)		0	9	6	0	0	0	6273	4250	35245	42566

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

1281La/rk42

TABLE #: E89-1281 / 3rd Quarter 1989

SITE NAME: Area 2 - 881 Hillside

CLP VOLATILE ORGANIC ANALYSIS: Low Water

ANALYTICAL RESULTS (ppb)

Sample Location											
Sample Number		43-87DL	MB8-04	TB7-31	FB7-31	8-87	1-87	R59-86	55-86		
Sampling Date		7/26/89		7/31/89	7/31/89	7/31/89	7/31/89	7/31/89	7/31/89		
Remarks		x100 dilution	Method Blank	Trip Blank	Field Blank			Reanalysis			
Volatile Compound	CRQL ug/L (ppb)	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ		
Chloromethane	10	1000 U V		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V		
Bromomethane	10	1000 U V		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V		
Vinyl chloride	10	1000 U V		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V		
Chloroethane	10	1000 U V		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V		
Methylene chloride	5	500 U V		7 V	6 V	5 U V	5 U V	5 U V	5 U V		
Acetone	10	1000 U V		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V		
Carbon disulfide	5	500 U V		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
1,1-Dichloroethene	5	10000 V		5 U V	5 U V	1 J A	5 U V	5 U V	7 V		
1,1-Dichloroethane	5	500 U V		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
1,2-Dichloroethene (Total)	5	500 U V		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
Chloroform	5	660 V		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
1,2-Dichloroethane	5	500 U V		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
2-Butanone	10	1000 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	19000 V		5 U V	5 U V	5 U V	5 U V	5 U V	8 V		
Carbon tetrachloride	5	500 U V		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
Vinyl acetate	10	1000 U R		10 U R	10 U R	10 U R	10 U R	10 U R	10 U R		
Bromodichloromethane	5	500 U V		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
1,2-Dichloropropane	5	500 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	500 U V		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
Trichloroethene	5	13000 V		5 U V	5 U V	2 J A	5 U V	5 U V	11 V		
Dibromochloromethane	5	500 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	500 U V		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
Benzene	5	500 UJ A		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
trans-1,3-Dichloropropene	5	500 U V		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
Bromoform	5	500 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	1000 U V		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V		
2-Hexanone	10	1000 U V		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V		
Tetrachloroethene	5	6900 V		5 U V	5 U V	2 J A	5 U V	5 U V	12 V		
1,1,2,2-Tetrachloroethane	5	500 U V		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
Toluene	5	500 UJ A		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
Chlorobenzene	5	500 UJ A		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
Ethylbenzene	5	500 UJ A		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
Styrene	5	500 UJ A		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
Xylenes (Total)	5	500 UJ A		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V		
Total Organic Concentration (ppb)		49560	0	7	6	5	0	0	38		

U Indicates the compound was not detected above the Required Quantitation Limit.

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E Exceeds calibration range, dilute & reanalyze.

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1281La/rk42