Superfund Records Center
SITE: Ciba-Geigy
BREAK: 19.00
OTHER: 638069

REC'D 6-29-98 F.B.

TECHLAW INC.
160 N. WASHINGTON STREET, SUITE 400, BOSTON, MA 02114
PHONE: (617) 720-0320
FAX: (617) 720-0321

NO TABLE 2 ?

RZ1-R01029.01-ID-028

June 25, 1998

Ms. Rosanne Sawaya-O'Brien
Regional Project Officer
U.S. EPA New England
JFK Federal Building
One Congress Street
Boston, MA 02203

Reference: EPA Contract No. 68-W4-0013; EPA Work Assignment No. R01029; Ciba-Geigy Facility, Cranston, Rhode Island; Field Oversight Summary Report, Groundwater Split Sample Collection, and Analytical Results (Task 04)

Dear Ms. Sawaya-O'Brien:

Enclosed please find a copy of the above referenced deliverable for groundwater split sampling activities at the Ciba-Geigy Facility. Split samples were collected on April 27 and 28, 1998 during the facility's Pawtuxet River Corrective Measure Study (PRCMS). This report includes a chronology of field events, summary of field samples split at the facility, copies of the chain of custody forms, and analytical results. An electronic copy of the text and table are provided on the attached diskette in Word Perfect 6.1 and Microsoft Excel 97.

Please feel free to contact me if you have any questions on the enclosed report.

Sincerely,

Tom Penhale for

Mark D. Heaney
Regional Manager

cc: F. Battaglia, EPA New England
W. Jordan/Central Files
J. Hall, TRC
T. Penhale

SEMS DocID 638069

FIELD OVERSIGHT SUMMARY REPORT
CIBA-GEIGY FACILITY
CRANSTON, RHODE ISLAND

Submitted to:

Ms. Rosanne Sawaya-O'Brien
Regional Project Officer
U.S. Environmental Protection Agency
Waste Management Division (HPC CAN-7)
JFK Federal Building
Boston MA 02203

Submitted by:

Mr. Mark D. Heaney
Regional Manager
TechLaw Inc.
160 N. Washington Street
Suite 400
Boston, MA 02114

EPA Work Assignment No.:	R01001
Contract No.:	68-W4-0013
TechLaw WAM:	Mark Heaney
Telephone No.:	(617) 720-0320
EPA WAM:	Frank Battaglia
Telephone No.:	(617) 573-9643

June 26, 1998

Table of Contents

Section		Page
1.0	INTRODUCTION	1
2.0	CHRONOLOGY OF EVENTS	1
3.0	SUMMARY OF ANALYTICAL RESULTS	3
4.0	SUGGESTED FURTHER ACTIONS	4

Attachments

A Field Activity Summary Sheets and Groundwater Data Forms
B Copy of Log Book
C Photograph Log
D Chain-of-Custody Forms
E Analytical Data Sheets

1.0 INTRODUCTION

At the request of Mr. Frank Battaglia (USEPA), the TechLaw Team subcontractor, TRC Environmental Corporation, traveled to the Ciba-Geigy Facility on April 27 and 28, 1998 to observe groundwater sampling activities being conducted by Rhode Island Analytical Services (RIAS). The TechLaw Team conducted this activity in accordance with the Field Oversight Work Plan/QAPjP, dated June 26, 1995 and the Addendum to the TechLaw's Field Oversight Work Plan/QAPjP, dated April 23, 1998. The groundwater sampling activities were conducted as part of the Pawtuxet River Corrective Measure Study Report (PRCMS) at the Ciba-Geigy facility.

At the request of Mr. Battaglia, the TechLaw Team obtained split samples from the sixteen groundwater monitoring wells sampled by the facility for independent verification analysis. Attachment A summarizes the sixteen split samples collected. In addition, the following attachments are provided in this report: Attachment B, Copy of Log Book and Attachment C, Photograph Log. Split samples were submitted to the QST analytical laboratory in Newberry, Florida for Volatile Organic Compounds (VOC) analysis, following EPA SW846 Method 8260. At EPA's direction no validation of laboratory results was conducted. Copies of the chain-of-custody forms which accompanied the samples during shipment are presented in Attachment D. Analytical data sheets are presented in Attachment E.

TechLaw verified RIAS sampling activities during field oversight using the following documents:

- RIAS Standard Operating Procedures for Field Sampling of Monitoring Wells (Ciba Site), and;
- RCRA Groundwater Monitoring: Draft Technical Guidance, EPA /530-R-93-001, November, 1992.

2.0 CHRONOLOGY OF EVENTS

April 27, 1998

On April 27, TRC personnel arrived on site at 0830 to observe RIAS personnel and obtain split samples during groundwater sampling at the Ciba-Geigy facility. The schedule called for the collection of sixteen groundwater samples to be analyzed by EPA SW846 Method 8260 as shown in Table 1. The groundwater samples were collected using a submersible whale-pump to purge the wells and a teflon disposable bailer to collect the analytical sample., Ten of the sixteen scheduled groundwater split samples, a rinsate blank and a MS/MSD were collected (RB-1, MW-02S, P-02D, P-35S, SW-120, P-36S, P-34S, SW-130, P-37S, SW-110, and MW-1S), in addition a trip blank was shipped with the sample cooler. TRC noted no deficiencies during sampling.

After obtaining split samples, TRC completed the chain-of-custody forms, shipped the samples to the laboratory and left the site at 1555 hours.

April 28, 1998

On April 28, TRC arrived on site at 0745 to collect split samples from the remaining six monitoring wells: P-38S, MW-13S, MW-12S, MW-4S, MW-14S, and MW-21S. A trip blank was shipped with the sample cooler. TRC observed that monitoring well MW-14S had approximately one-sixteenth of an inch of a light non-aqueous phase liquid (LNAPL) during purging. After collection of the sample from MW-14S, a sheen was observed within the sample containers. TRC noted no deficiencies during sampling.

After obtaining split samples, TRC completed the chain-of-custody forms, shipped the samples to the laboratory and left the site at 1330 hours.

TABLE 1. SUMMARY OF VOC SPLIT SAMPLES COLLECTED

Sample ID	Date Sample Collected
MW-02S	4/27/98
P-02D	4/27/98
P-35S	4/27/98
SW-120	4/27/98
P-36S	4/27/98
P-34S	4/27/98
SW-130	4/27/98
P-37S	4/27/98
SW-110	4/27/98
MW-1S	4/27/98
P-38S	4/28/98
MW-13S	4/28/98
MW-12S	4/28/98

MW-4S Duplicate MW-4SD	4/28/98
MW-14S	4/28/98
MW-21S	4/28/98

3.0 SUMMARY OF ANALYTICAL RESULTS

Table 2 summarizes results of split sample analysis. Analytical data sheets are provided in Attachment E. As shown in Table 2, fifteen VOCs were detected in groundwater split samples collected at the facility (maximum detected concentration provided in parentheses): vinyl chloride (64 ug/L), acetone (35 ug/L), carbon disulfide (4.3 J ug/L), trans-1,2-dichloroethene (17 ug/L), 1,1-dichloroethene (1.7 J), cis-1,2-dichloroethene (2400 ug/L), chloroform (1.5 J), 1,1,1-trichloroethane (1.5 J), benzene (28 ug/L), trichloroethene (12 ug/L), toluene (230,000 ug/L), tetrachloroethene (130 J ug/L), chlorobenzene (3800 ug/L), ethylbenzene (160 ug/L), and total xylenes (7300 ug/L).

The results of the trip blanks, rinsate blank, and field duplicate sample do not evidence significant problems in the field sampling procedures or laboratory analyses. No VOCs were detected in either trip blank. Chloroform was detected in the rinsate blank at 2.5 ug/L. Since chloroform is reported in only two samples (MW-2S at 0.64 ug/L and MW-4SD at 1.5 J ug/L) sample contamination as a result of the field sampling and decontamination procedures is not widespread. EPA should note that the chloroform result in samples MW-2S and MW-4SD would be reported as 2.5 U after data validation due to the detection in the rinsate blank.

Results of the analysis of field duplicate set, MW-4S and MW-4SD, were evaluated following EPA Region I data validation guidelines for precision. Relative percent difference was calculated for all compounds detected at concentrations greater than or equal to the sample quantitation limit in the duplicate set using the following formula:

$$RPD = \frac{(S-D)}{(S+D)/2} \times 100$$

where,

S = sample result
D = duplicate result.

The duplicate sample results do not indicate a significant problem in field or laboratory precision. Results for xylenes, ethylbenzene, and benzene are within EPA's acceptance criteria of +/- 30 percent RPD. Results for toluene and chlorobenzene are not within EPA's acceptance criteria. Therefore, toluene and chlorobenzene results would be qualified as estimated in both samples.

The following compounds were detected in only one of the duplicate samples at trace concentrations below the detection limit: 1,1-dichloroethane, chloroform, 1,1,1-trichloroethane, and tetrachloroethane. The occurrence of trace detects in only one sample of a duplicate pair is not unusual. The trace detects would be qualified as estimated (J) after data validation. Cis-1,2-dichloroethene results was reported at 25 ug/L in one sample and not detected in the duplicate. The detection would be estimated (J) during data validation.

VOCs were not detected in split samples from monitoring wells P-38S and MW-13S. These data are consistent with results from previous compliance monitoring events. No VOCs were detected in P-38S during the April 1997 or October 1997 sampling events. Trace levels of chlorobenzene (3 ug/L) and xylenes (1 ug/L) were detected in MW-13S in the October 1997 sampling event. Therefore, the northern extent of the plume appears to be located within the capture zone of the groundwater extraction system.

Comparison of the analytical results with prior reported data indicates a large change in VOC concentrations detected at MW-21S. VOC concentrations range from non-detect to trace in samples from the April 1997 and April 1998 sampling events. However, VOCs were detected at very high concentrations (up to 24,000 ug/L) in the October 1997 sampling event. The cause of this change is not evident from a review of the documentation provided in the August 1997 and March 1998 compliance monitoring reports. The operation of the soil vapor extraction (SVE) system may cause the variations in VOC concentrations noted at MW-21S. However, no information regarding the operation of the SVE system is provided in the August 1997 and March 1998 compliance monitoring reports.

The April 1998 sampling event appears to be the first occasion MW-14S was included in the compliance monitoring program. Analytical results indicate that toluene was detected at a concentration of 230,000 ug/L, confirming field observations that LNAPL was present.

4.0 SUGGESTED FURTHER ACTIONS

The following are suggested:

- Consider including vinyl chloride on the compliance monitoring list of contaminants of interest due to positive detections ranging up to 30 times the Maximum Contaminant Level of 2 ug/L.
- The facility should evaluate current and historical compliance monitoring data and report any changes in the horizontal or vertical migration of contamination. The facility should evaluate the significance of the change in VOC concentrations in samples collected from MW-21S.
- Include MW-14S in future compliance monitoring events to evaluate trends in toluene concentrations.
- Expand compliance monitoring to include well MW-22S to confirm that the southern limit of the plume is located within the capture zone of the extraction system.

- The operating history of the SVE system should be presented in the compliance monitoring reports. Evaluation of groundwater contaminant concentrations in the compliance monitoring reports should consider the influence of the SVE system.

ATTACHMENT A

FIELD ACTIVITY SUMMARY SHEETS AND GROUND WATER DATA FORMS

Ciba Geigy Facility	ANALYTICAL RESULTS SUMMARY - AQUEOUS SAMPLES																
Laboratory: QST Environmental																	
TechLaw Sample Number	MW-1S	MW-02S	MW-4S	MW-4SD	MW-12S	MW-13S	MW-14S	MW-21S	P-02D	P-34S	P-35S	P-36S	P-37S	P-38S	SW-110	SW-120	SW-130
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Chloromethane	4.4 U	4.4 U	22 UD5	22 UD5	4.4 U	4.4 U	440 UD100	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Vinyl Chloride	4.6 U	64	23 UD5	23 UD5	4.6 U	4.6 U	460 UD100	4.6 U	4.6 U	4.6 U	5.2	1.8 J	1.3 J	4.6 U	3.4 J	1.8 J	2.5 J
Bromomethane	3.5 U	3.5 U	18 UD5	18 UD5	3.5 U	3.5 U	350 UD100	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Chloroethane	8.2 U	8.2 U	41 UD5	41 UD5	8.2 U	8.2 U	820 UD100	8.2 U	8.2 U	8.2 U	8.2 U	8.2 U	8.2 U	8.2 U	8.2 U	8.2 U	8.2 U
1,1-Dichloroethylene	3.2 U	1.5 J	16 UD5	16 UD5	3.2 U	3.2 U	320 UD100	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Acetone	35	16	45 UD5	45 UD5	9.0 U	9.0 U	900 UD100	9.0 U	9.0 U	9.0 U	9.0 U	9.0 U	9.0 U	9.0 U	9.0 U	9.0 U	9.0 U
Carbon Disulfide	4.4 U	4.3 J	22 UD5	22 UD5	4.4 U	4.4 U	440 UD100	4.4 U	4.4 U	4.4 U	2.6 J	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Methylene Chloride	6.4 U	6.4 U	32 UD5	32 UD5	6.4 U	6.4 U	640 UD100	6.4 U	6.4 U	6.4 U	6.4 U	6.4 U	6.4 U	6.4 U	6.4 U	6.4 U	6.4 U
Trans-1,2-Dichloroethene	2.4 U	17	12 UD5	12 UD5	2.4 U	2.4 U	240 UD100	2.4 U	2.4 U	2.4 U	0.98 J	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
1,1-Dichloroethane	2.5 U	0.96 J	1.7 JD5	13 UD5	2.5 U	2.5 U	250 UD100	2.5 U	2.5 U	0.66 J	2.5 U	0.81 J	2.5 U	2.5 U	1.7 J	0.60 J	2.5 U
Vinyl Acetate	10 U	10 U	50 UD5	50 UD5	10 U	10 U	1000 UD100	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis-1,2-Dichloroethene	2.4 U	2400 D40	25 D5	12 UD5	2.4 U	2.4 U	240 UD100	2.4 U	2.4 U	2.4 U	11	2.0 J	1.1 J	2.4 U	3.4	2.4 U	2.4 U
Methyl Ethyl Ketone (MEK)	10 U	10 U	50 UD5	50 UD5	10 U	10 U	1000 UD100	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	2.5 U	0.64 J	13 UD5	1.5 JD5	2.5 U	2.5 U	250 UD100	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	2.5 U	2.5 U	1.5 JD5	13 UD5	2.5 U	2.5 U	250 UD100	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	2.5 U	2.5 U	13 UD5	13 UD5	2.5 U	2.5 U	250 UD100	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon Tetrachloride	2.6 U	2.6 U	13 UD5	13 UD5	2.6 U	2.6 U	260 UD100	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Benzene	3.3	13	1.7 JD5	1.4 JD5	1.0 U	1.0 U	14 JD100	1.0 U	1.0 U	7.9	5.1	2.9	9.0	1.0 U	28	0.64 J	1.0 U
Trichloroethene	3.0 U	12	15 UD5	15 UD5	3.0 U	3.0 U	300 UD100	3.0 U	3.0 U	3.0 U	2.0 J	1.5 J	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2-Dichloropropane	2.0 U	2.0 U	10 UD5	10 UD5	2.0 U	2.0 U	200 UD100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromodichloromethane	2.2 U	2.2 U	11 UD5	11 UD5	2.2 U	2.2 U	220 UD100	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Cis-1,3-Dichloropropene	2.0 U	2.0 U	10 UD5	10 UD5	2.0 U	2.0 U	200 UD100	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl Isobutyl Ketone	12 U	12 U	60 UD5	60 UD5	12 U	12 U	1200 UD100	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Toluene	1.9	86	1500 D40	2100 D40	1.7 U	1.7 U	230000 D2000	1.7 U	1.7 U	120	2.7	0.92 J	0.57 J	1.7 U	250 D20	1.7 U	1.7 U
Trans-1,3-Dichloropropene	1.6 U	1.6 U	8 UD5	8 UD5	1.6 U	1.6 U	160 UD100	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1,2-Trichloroethane	2.8 U	2.8 U	14 UD5	14 UD5	2.8 U	2.8 U	280 UD100	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Tetrachloroethene	1.9 U	8.3	9.5 UD5	2.3 JD5	1.9 U	1.9	130 JD100	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Hexanone (MBK)	21 U	21 U	110 UD5	110 UD5	21 U	21 U	2100 UD100	21 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U
Dibromochloromethane	2.3 U	2.3 U	12 UD5	12 UD5	2.3 U	2.3 U	230 UD100	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
Chlorobenzene	3800 D20	2000 D40	210 D5	150 D5	1.4 U	1.9 U	130 JD100	1.4 U	1.9	690 D5	730 D5	410 D5	790 D	1.4 U	1300 D20	79	17
Ethylbenzene	4.1	9.3	33 D5	41 D5	61	1.3 U	1600 D100	1.3 U	1.3 U	3.6	5.8	0.86 J	1.3 U	1.3 U	2.3	1.3 U	1.3 U
Xylenes, Total	2.6 J	22	120 D5	150 D5	120	3.7 U	7300 D100	3.7 U	3.7 U	9.4	11	0.96 J	3.7 U	3.7 U	6.4	3.7 U	3.7 U
Styrene	0.50 U	0.50 U	2.5 UD5	2.5 UD5	0.50 U	0.50 U	50 UD100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	2.6 U	2.6 U	13 UD5	13 UD5	2.6 U	2.6 U	260 UD100	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
1,1,2,2-Tetrachloroethane	1.5 U	1.5 U	7.5 UD5	7.5 UD5	1.5 U	1.5 U	150 UD100	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U

Footnotes:
U = Not detected
J = Estimated concentration

I98-184.xls

TRC

Field Activity Summary Sheet

Project: Ciba Specialty	**Project No.:** 02510-0052-1000
Date: 4/27/98	**Sheet** 1 **of** 1
Activity: Groundwater Split - Sampling	**TRC Personnel:** A. Balogh
Weather: Sunny 65°F	**Contractor Personnel:** Rhode Island Analytical Services Paul Perrotti (RIAS) Greg Harrison (RIAS)

Summary:

0830 TRC A. Balogh on site to conduct groundwater split sampling with RIAS.

1000 Collection of mw-02S all samples analyzed by 8260.

1045 Collection of P-02D

1115 Collection of P-35S

1145 Collection of SW-120

1210 Rinsate blank collection

1215 Collection of P-36S ms/msd

1345 Collection of P-34S

1430 Collection of SW-130

1530 Collection of P-37S

1540 Collection of SW-110

1555 Collection of mw-1S

TRC OFF SITE

Sketch:

Deviations from Contractor's Work Plan/EPA Procedures:

No deviations noted

Photograph #	Roll ID	Description
1,2,3,4	1	Site, North①, East②, South③, & West④
5	1	Measuring GW level in P-02D
6	1	View of P-35S along River
7	1	Pumping SW-120 with bailer
8	1	Pumping P-34S
9	1	View of P-37S
10	1	View of SW-110

Signed: [signature]

Rev: 8 July 1991

AF005

TRC

Field Activity Summary Sheet

Project: Ciba Specialty	**Project No.:** 02510-0052-10004
Date: 4/28/98	**Sheet** 1 **of** 1
Activity: Groundwater Split Sampling	**TRC Personnel:** T. Mayer
Weather: Warm/Breezy 59°F	**Contractor Personnel:** RIAS Paul Perrotti, Greg Harrison

Summary:

0745 TRC T. Mayer on site to collect the remaining six bound split samples with RIAS

0835 Collection of P-38S

0910 Collection of MW-13S

0945 Collection of MW-12S

1050 Collection of MW-4S and duplicate MW-4SD

1115 Collection of MW-14S

1315 Collection of MW-21S

1330 TRC OFF SITE

Sketch:

Deviations from Contractor's Work Plan/EPA Procedures:

No Deviations Noted

Photograph #	Roll ID	Description
11	1	Well location P-38S
12	1	Well location MW-12S
13	1	Well location MW-4S
14	1	Well location MW-14S LNAPL
15	1	Well location MW-21S

Signed: Todd P. Mayer

Rev: 8 July 1991

AF005

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
CIBA	02510-0052	4/27/94 / 1400	

Contractor Personnel: Paul Pervotti & Greg Harrison

TRC Personnel: A. Ball

Sample No.:

Well Location: MW-15

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	✓	
Concrete Collar Intact		✓
PVC Stick-up Intact	✓	
Well Cap Present		✓
Security Lock Present	✓	

Protective Casing Stick-up (from ground) ~3.5 ft.

Riser Stick-up (from ground) ~3.0 ft.

Well Depth 18.5 ft. ☑ top of riser ☐ top of casing ☐ ☑ measured ☐ historical

Water Depth 7.3 ft.

WELL DIAMETER ☐ 2 inch ☑ 4 inch ☐ 6 inch ☐ ___

Height of Water Column 11.2 ft. x ☐ .16 gal/ft (2 in.) ☑ .65 gal/ft (4 in.) ☐ 1.5 gal/ft (6 in.) ☐ ___ gal/ft (___ in.)

Volume of Water in Well = 7 gallon(s)

22 Total gallons to purge

[Vol. = $r^2h(0.163)$]

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background		
Well Mouth	probs measured	

WELL MATERIAL ☐ PVC ☑ SS ☐ ___

FIELD WATER QUALITY MEASUREMENTS ~ purged to new dipsy

Purge Volume (gal)	22	29	~~29~~ 31				
pH (Std. Units)	8.2	7.9	8.0				
Eh (millivolts)		82.1					
Conduct. (µmhos/cm)	73.7	~~109~~ 81.7	81.7				
Temp. (~~C~~ F)	55.6	53.8	53.3				
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear ☑ Turbid ☐

Color ___

Odor none

Other ___

SAMPLE EQUIP./DECON.

	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump	✓	
Bailer		✓
Waterra		
PVC/Silicon Tubing	✓	
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
___		

EQUIPMENT ID

purge with whole pump and tubing

sample with SS bailer

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED

Tap Water	
Alconox	
Tap Water	
HNO_3 (1 or 10%)	
Tap Water	
Methanol	
Hexane	
Acetone	
Air Dry	
DI Water	
Air Dry	
None	

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
☒ TCL Volatiles 8260	YES (NO)	4° C HCl	2x40 mL	1555	MW-15	
☐ BNA Extractables	YES NO	4° C	4x1 L Amb GL			
☐ PCBs/Pesticides	YES NO	4° C				
☐ TAL Metals	YES NO	HNO_3/4° C	1 L PL			
☐ Cyanide	YES NO	NaOH/4° C	1 L PL			
☐ ___	YES NO					

AF-209A

Signed: [signature]

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
UBA	02510-0052	4/27/98 / 1520	

Contractor Personnel: Paul Cerotti & Greg Harrison

TRC Personnel: A. Balp

Sample No.:

Well Location: SW-110

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	✓	
Concrete Collar Intact		✓
PVC Stick-up Intact	✓	
Well Cap Present		✓
Security Lock Present	✓	

Protective Casing Stick-up (from ground) ___ ft.

Riser Stick-up (from ground) ___ ft.

Well Depth 34.8 ft. ✓ top of riser ☐ top of casing ☐ ___ ✓ measured ☐ historical

Water Depth 9.4 ft.

WELL DIAMETER ✓ 2 inch ☐ 4 inch ☐ 6 inch ☐ ___

Height of Water Column 25.4 ft. x ✓ .16 gal/ft (2 in.) ☒ .65 gal/ft (4 in.) ☐ 1.5 gal/ft (6 in.) ☐ ___ gal/ft (___ in.)

Volume of Water in Well = 4 gallon(s)

12 Total gallons to purge

[Vol. = $r^2h(0.163)$]

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	NA measured	
Well Mouth		

WELL MATERIAL ☐ PVC ✓ SS ☐ ___

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)	~~14~~ 12	16					
pH (Std. Units)	8.5	8.3					
Eh (millivolts)							
Conduct. (µmhos/cm)	29.9	30.1					
Temp. (~~C~~) F	51.5	51.7					
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear ☒ Turbid ☐

Color ___

Odor NONE

Other ___

SAMPLE EQUIP./DECON.	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer	✓	✓
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
___		

EQUIPMENT ID

purge with disposable bailer

sample with SS bailer

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED

- Tap Water ☐
- Alconox ☐
- Tap Water ☐
- HNO_3 (1 or 10%) ☐
- Tap Water ☐
- Methanol ☐
- Hexane ☐
- Acetone ☐
- Air Dry ☐
- DI Water ☐
- Air Dry ☐
- None ☐

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
✓ ~~TCL~~ Volatiles	YES NO	4° C HCl	2x40 mL	1540	SW-110	
☐ BNA Extractables	YES NO	4° C	4x1 L Amb GL			
☐ PCBs/Pesticides	YES NO	4° C				
☐ TAL Metals	YES NO	HNO_3/4° C	1 L PL			
☐ Cyanide	YES NO	NaOH/4° C	1 L PL			
☐ ___	YES NO					

AF-206A

Signed: [signature]

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
CVBA	02510 - 0052	4/27/96 / 1420	

Contractor Personnel: Paul Perrotti ; Gary Hamm

TRC Personnel: A. Bryn

Sample No.:

Well Location: SW-130

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	✓	
Concrete Collar Intact		✓
PVC Stick-up Intact	✓	
Well Cap Present		✓
Security Lock Present	✓	

Protective Casing Stick-up (from ground) N 3.5 ft.

Riser Stick-up (from ground) N 3 ft.

WELL DIAMETER: ✓ 2 inch; 4 inch; 6 inch; ___

Well Depth 35.6 ft. ✓ top of riser; top of casing; ___ ✓ measured; historical

Water Depth 9.6 ft.

Height of Water Column 26 ft. x ✓ .16 gal/ft (2 in.); .65 gal/ft (4 in.); 1.5 gal/ft (6 in.); ___ gal/ft (___ in.)

Volume of Water in Well = ___ gallon(s)

13 Total gallons to purge

[Vol. = $r^2h(0.163)$]

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background		
Well Mouth	not measured	

WELL MATERIAL: PVC; SS ✓; ___

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)	13	17					
pH (Std. Units)	9.0	8.7					
Eh (millivolts)	~~429~~	~~415~~					
Conduct. (µmhos/cm)	429	415					
Temp. (~~C~~) F	51.1	51.2					
Turb. (NTU)							
DO (mg/l)							

Sample Description: Clear ☐ Turbid ☐ Color ___ Odor ___ Other ___

SAMPLE EQUIP./DECON.	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer		
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
___		

EQUIPMENT ID

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED: Tap Water; Alconox; Tap Water; HNO_3 (1 or 10%); Tap Water; Methanol; Hexane; Acetone; Air Dry; DI Water; Air Dry; None

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
☒ TCL Volatiles	YES NO	4° C HCl	2x40 mL	1430	SW-130	
☐ BNA Extractables	YES NO	4° C	4x1 L Amb GL			
☐ PCBs/Pesticides	YES NO	4° C				
☐ TAL Metals	YES NO	HNO_3/4° C	1 L PL			
☐ Cyanide	YES NO	NaOH/4° C	1 L PL			
☐ ___	YES NO					

AF-306/A

Signed: [signature]

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
CIBA	02510-0052	4/27/98 / 1500	

Contractor Personnel: Paul Rivotti & Greg Harrison

TRC Personnel: A. Balp

Sample No.:

Well Location: P-375

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	✓	
Concrete Collar Intact		✓
PVC Stick-up Intact	✓	
Well Cap Present		
Security Lock Present		

Protective Casing Stick-up (from ground) ____ ft.

Riser Stick-up (from ground) ____ ft.

Well Depth 16.7 ft. ☑ top of riser ☐ top of casing ☑ measured ☐ historical

Water Depth 10.3 ft.

WELL DIAMETER ☑ 2 inch ☐ 4 inch ☐ 6 inch ☐ ____

Height of Water Column 6.4 ft. x ☑ .16 gal/ft (2 in.) ☐ .65 gal/ft (4 in.) ☐ 1.5 gal/ft (6 in.) ☐ ___ gal/ft (__ in.)

Volume of Water in Well = 1 gallon(s)

3 Total gallons to purge

[Vol. = $r^2h(0.163)$]

WELL MATERIAL ☑ PVC ☐ SS ☐ ____

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background		
Well Mouth	not present	

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)	3	4					
pH (Std. Units)	9.1	8.8					
Eh (millivolts)							
Conduct. (µmhos/cm)	66.7	68.4					
Temp. (~~C~~) F	53.6	54.1					
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear ☑ Turbid ☐

Color ____

Odor none

Other ____

SAMPLE EQUIP./DECON.

	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer	✓	✓
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
____		

EQUIPMENT ID

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED

Tap Water	
Alconox	
Tap Water	
HNO_3 (1 or 10%)	
Tap Water	
Methanol	
Hexane	
Acetone	
Air Dry	
DI Water	
Air Dry	
None	

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
☒ ~~TCL~~ Volatiles	YES (NO)	4° C HCl	2x40 mL	1530	P-375	
☐ BNA Extractables	YES NO	4° C	4x1 L Amb GL			
☐ PCBs/Pesticides	YES NO	4° C				
☐ TAL Metals	YES NO	HNO_3/4° C	1 L PL			
☐ Cyanide	YES NO	NaOH/4° C	1 L PL			
☐ ____	YES NO					

AF-306A

Signed: A. Balp

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
CIBA	07510-0052	4/27/98 1115	

Contractor Personnel: Paul Perrotti ; Greg Harrison

TRC Personnel: A. Burk

Sample No.:

Well Location: P-345

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	✓	
Concrete Collar Intact		✓
PVC Stick-up Intact	✓	
Well Cap Present		✓
Security Lock Present	✓	

Protective Casing Stick-up (from ground) ~2.5 ft.

Riser Stick-up (from ground) ~2 ft.

Well Depth 17.5 ft. ✓ top of riser ☐ top of casing ☐ ___ ✓ measured ☐ historical

Water Depth 6.0 ft.

WELL DIAMETER ✓ 2 inch ☐ 4 inch ☐ 6 inch ☐ ___

Height of Water Column 11.5 ft. x ✓ .16 gal/ft (2 in.) ☐ .65 gal/ft (4 in.) ☐ 1.5 gal/ft (6 in.) ☐ ___ gal/ft (___ in.)

Volume of Water in Well = 2 gallon(s)

55 Total gallons to purge

[Vol. = $r^2h(0.163)$]

WELL MATERIAL ✓ PVC ☐ SS ☐ ___

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	not measured	
Well Mouth		

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)	5.5	7.5	9.5				
pH (Std. Units)	8.7	8.6	8.5				
Eh (millivolts)							
Conduct. (µmhos/cm)	472	477	467				
Temp. (C)	59.1	53.9	52.2				
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear ☐ Turbid ☒

Color light grey

Odor none

Other ___

SAMPLE EQUIP./DECON.	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer	✓	✓
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
___		

EQUIPMENT ID

purge with disposable bailer

sample with SS bailer

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED	
Tap Water	✓
Alconox	✓
Tap Water	✓
HNO_3 (1 or 10%)	
Tap Water	
Methanol	✓
Hexane	
Acetone	
Air Dry	
DI Water	✓
Air Dry	✓
None	

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
☒ TCL Volatiles	YES (NO)	4° C HCl	2x40 mL	1345	P-345	
☐ BNA Extractables	YES NO	4° C	4x1 L Amb GL			
☐ PCBs/Pesticides	YES NO	4° C				
☐ TAL Metals	YES NO	HNO_3/4° C	1 L PL			
☐ Cyanide	YES NO	NaOH/4° C	1 L PL			
☐ ___	YES NO					

Signed: [signature]

AF-300/A

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
CIBA	02510-0052	4/27/98 1200	

Contractor Personnel: Paul Perrotti & Greg Harrison

TRC Personnel: A. Balut

Sample No.: RB-1

Well Location: Rinsate / Equipment Blank

WELL INTEGRITY

	YES	NO
Protect. Casing Secure		
Concrete Collar Intact		
PVC Stick-up Intact		
Well Cap Present		
Security Lock Present		

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background		
Well Mouth		

Protective Casing Stick-up _____ ft. (from ground)

Riser Stick-up (from ground) _____ ft.

WELL DIAMETER ☐ 2 inch ☐ 4 inch ☐ 6 inch ☐ ___

WELL MATERIAL ☐ PVC ☐ SS ☐ ___

Well Depth ___ ft. ☐ top of riser ☐ top of casing ☐ ___ ☐ measured ☐ historical

Water Depth ___ ft.

Height of Water Column ___ ft. x ☐ .16 gal/ft (2 in.) ☐ .65 gal/ft (4 in.) ☐ 1.5 gal/ft (6 in.) ☐ ___ gal/ft (___ in.)

Volume of Water in Well = _____ gallon(s)

[Vol. = $r^2h(0.163)$] _____ Total gallons to purge

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)							
pH (Std. Units)							
Eh (millivolts)							
Conduct. (µmhos/cm)							
Temp. (C)							
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear ☐ Turbid ☐

Color _____

Odor _____

Other _____

SAMPLE EQUIP./DECON.	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer		✓
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
_____		

EQUIPMENT ID: SS bailer

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED	
Tap Water	
Alconox	✓
DI ~~Tap~~ Water	✓
HNO_3 (1 or 10%)	
Tap Water	
Methanol	✓
Hexane	
Acetone	
Air Dry	
DI Water	✓
Air Dry	✓
None	

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
☒ ~~TCL~~ Volatiles	YES (NO)	4° C HCl	2x40 mL	1210	RB-1	Equip. Blank
☐ BNA Extractables	YES NO	4° C	4x1 L Amb GL			
☐ PCBs/Pesticides	YES NO	4° C				
☐ TAL Metals	YES NO	HNO_3/4° C	1 L PL			
☐ Cyanide	YES NO	NaOH/4° C	1 L PL			
☐ _____	YES NO					

Signed: [signature]

AF-206/A

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record
Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
CIBA	02510-0052	4/22/96 1200	

Contractor Personnel: Paul Perrotti & Greg Harrison

TRC Personnel: A. Balap

Sample No.:

Well Location: P-36S

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	✓	
Concrete Collar Intact	✓	
PVC Stick-up Intact		
Well Cap Present		✓
Security Lock Present		✓

Protective Casing Stick-up (from ground) ~3 ft.

Riser Stick-up (from ground) ~2.8 ft.

Well Depth 17.9 ft. ☑ top of riser ☐ top of casing ☑ measured ☐ historical

Water Depth 7.4 ft.

WELL DIAMETER ☑ 2 inch ☐ 4 inch ☐ 6 inch

Height of Water Column 10.5 ft. x ☑ .16 gal/ft (2 in.) ☐ .65 gal/ft (4 in.) ☐ 1.5 gal/ft (6 in.) ☐ ___ gal/ft (___ in.)

Volume of Water in Well = ~1.5 gallon(s)

5 Total gallons to purge

[Vol. = $r^2h(0.163)$]

WELL MATERIAL ☑ PVC ☐ SS ☐

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	not measured	
Well Mouth		

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)	5	6.5					
pH (Std. Units)	8.46	8.44					
Eh (millivolts)							
Conduct. (µmhos/cm)	50.5	41.8					
Temp. (~~C~~) F	54.4	53.9					
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear ☒ Turbid ☐

Color ___

Odor none

Other ___

SAMPLE EQUIP./DECON.

	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer	✓	✓
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
___		

EQUIPMENT ID

Disposable bailer to purge

SS bailer to sample

DESCRIPTION OF DECON. PROC.

RIA decontaminated equip in lab: DI rinse, Alconox wash, DI rinse, methanol rinse, DI rinse

DECON. FLUID USED

Tap Water	
Alconox	✓
DI Tap Water	✓
HNO_3 (1 or 10%)	
Tap Water	
Methanol	✓
Hexane	
Acetone	
Air Dry	
DI Water	✓
Air Dry	✓
None	

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	~~CLP~~ Sample #	CLP Case #
☒ ~~TCL~~ Volatiles	YES (NO)	4° C HCl	2x40 mL	1215	P-36S	MS/MSD
☐ BNA Extractables	YES NO	4° C	4x1 L Amb GL			
☐ PCBs/Pesticides	YES NO	4° C				
☐ TAL Metals	YES NO	HNO_3/4° C	1 L PL			
☐ Cyanide	YES NO	NaOH/4° C	1 L PL			
☐ ___	YES NO					

Signed: [signature]

AF-300A

Rev: 6 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
CIBA	02510-0052	04/27/96 11am	

Contractor Personnel: Paul Perrotti : Greg Henrison

TRC Personnel: A. Bailey

Sample No.:

Well Location: P-035S

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	✓	
Concrete Collar Intact		✓
PVC Stick-up Intact	✓	
Well Cap Present	✓	✗ AB
Security Lock Present	✓	

Protective Casing Stick-up (from ground) ~7.5 ft.

Riser Stick-up (from ground) ~2 ft.

Well Depth 17.2 ft. ✓ top of riser ☐ top of casing ☐ ___ ✓ measured ☐ historical

Water Depth ~~17.2~~ 6.8 ft. AB

WELL DIAMETER ✓ 2 inch ☐ 4 inch ☐ 6 inch ☐ ___

Height of Water Column 10.4 ft. x ✓ .16 gal/ft (2 in.) ☐ .65 gal/ft (4 in.) ☐ 1.5 gal/ft (6 in.) ☐ ___ gal/ft (___ in.)

Volume of Water in Well = ~1.5 gallon(s)

5 Total gallons to purge

[Vol. = $r^2h(0.163)$]

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	not measured	
Well Mouth		

WELL MATERIAL ✓ PVC ☐ SS ☐ ___

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)	4.5	6.0					
pH (Std. Units)	7.67	7.64					
Eh (millivolts)							
Conduct. (µmhos/cm)	76.1	76.4					
Temp. (C) f	58.0	57.5					
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear ☒ Turbid ☐

Color ___

Odor slight chemical odor

Other ___

SAMPLE EQUIP./DECON.	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer	✓	✓
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
___		

EQUIPMENT ID

disposable bailer to purge & sample

SS bailer to sample

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED

- Tap Water ☐
- Alconox ☐
- Tap Water ☐
- HNO_3 (1 or 10%) ☐
- Tap Water ☐
- Methanol ☐
- Hexane ☐
- Acetone ☐
- Air Dry ☐
- DI Water ☐
- Air Dry ☐
- None ☐

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	~~CLP~~ Sample #	CLP Case #
☒ ~~TCL~~ Volatiles	YES NO	4° C HCl	2x40 mL	1115	P-035S	
☐ BNA Extractables	YES NO	4° C	4x1 L Amb GL			
☐ PCBs/Pesticides	YES NO	4° C				
☐ TAL Metals	YES NO	HNO_3/4° C	1 L PL			
☐ Cyanide	YES NO	NaOH/4° C	1 L PL			
☐ ___	YES NO					

AF-206/A

Signed: [signature]

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
CBA	02510-0052	4/27/96 / 1115	

Contractor Personnel: Paul Perrotti & Greg Harrison

TRC Personnel: A. Bugh

Sample No.: Well Location: SW-120 (MW-315)

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	✓	
Concrete Collar Intact		✓
PVC Stick-up Intact		
Well Cap Present		✓
Security Lock Present	✓	

Protective Casing Stick-up (from ground) N ____ ft.

Riser Stick-up (from ground) N ____ ft.

WELL DIAMETER: ✓ 2 inch; 4 inch; 6 inch; ____

WELL MATERIAL: PVC; ✓ SS; ____

Well Depth 29.9 ft. — ☐ top of riser; ☐ top of casing; ☐ ____; ✓ measured; ☐ historical

Water Depth 7.7 ft.

Height of Water Column 22.2 ft. x — ✓ .16 gal/ft (2 in.); .65 gal/ft (4 in.); 1.5 gal/ft (6 in.); ____ gal/ft (__ in.)

Volume of Water in Well = 23 gallon(s)

11 Total gallons to purge

[Vol. = $r^2h(0.163)$]

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	not measured	
Well Mouth		

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)	11	13.5	16				
pH (Std. Units)	11.2	10.0	9.4				
Eh (millivolts)							
Conduct. (µmhos/cm)	473	443	410				
Temp. (~~C~~ F)	63.3	61.0	56.5				
Turb. (NTU)							
DO (mg/l)							

Sample Description: Clear ☐ Turbid ☒; Color grey; Odor none; Other ____

SAMPLE EQUIP./DECON.	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer	✓	✓
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
____		

EQUIPMENT ID: disposable to purge; SS to sample

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED	
Tap Water	
Alconox	
Tap Water	
HNO_3 (1 or 10%)	
Tap Water	
Methanol	
Hexane	
Acetone	
Air Dry	
DI Water	
Air Dry	
None	

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	~~CLP~~ Sample #	CLP Case #
☒ ~~TCL~~ Volatiles	YES (NO)	4° C HCl	2x40 mL	1145	SW-120	
☐ BNA Extractables	YES NO	4° C	4x1 L Amb GL			
☐ PCBs/Pesticides	YES NO	4° C				
☐ TAL Metals	YES NO	HNO_3/4° C	1 L PL			
☐ Cyanide	YES NO	NaOH/4° C	1 L PL			
☐ ____	YES NO					

Signed: [signature]

AF-306A

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
CIBA	02510-0052	4/27/98 1000	

Contractor Personnel: Paul Perro Hi : Greg Hamilton

TRC Personnel: A. Baly

Sample No.:

Well Location: P-02D

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	✓	
Concrete Collar Intact		✓
PVC Stick-up Intact	✓	
Well Cap Present		✓
Security Lock Present	✓	

Protective Casing Stick-up (from ground) ~3 ft.

Riser Stick-up (from ground) ~3.1 ft.

Well Depth 51.7 ft. ✓ top of riser ☐ top of casing ☐ ___ ✓ measured ☐ historical

Water Depth 6.4 ft.

WELL DIAMETER ☐ 2 inch ☐ 4 inch ☐ 6 inch ☐ 1.5

Height of Water Column 45.3 ft. x ☐ .16 gal/ft (2 in.) ☐ .65 gal/ft (4 in.) ☐ 1.5 gal/ft (6 in.) ☐ __ gal/ft (__ in.)

Volume of Water in Well = 3 gallon(s)

9 Total gallons to purge

[Vol. = $r^2h(0.163)$]

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background		
Well Mouth		

WELL MATERIAL ☐ PVC ☐ SS ☒ gal steel

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)	3	6	9	12			
pH (Std. Units)	9.1	8.6	8.2	8.1			
Eh (millivolts)							
Conduct. (µmhos/cm)	328	452	440	417.2			
Temp. (~~C~~) F	55.8	60.7	57.2	62.2			
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear ✓ Turbid ☐

Color ~~None~~ Ab

Odor None

Other

SAMPLE EQUIP./DECON.

	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer	✓	✓
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		

EQUIPMENT ID

purge with pencil bailer

sample with pencil bailer

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED

- Tap Water ☐
- Alconox ☐
- Tap Water ☐
- HNO_3 (1 or 10%) ☐
- Tap Water ☐
- Methanol ☐
- Hexane ☐
- Acetone ☐
- Air Dry ☐
- DI Water ☐
- Air Dry ☐
- None ☐

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	~~CLP~~ Sample #	CLP Case #
☒ ~~TCL~~ Volatiles	YES NO	4° C HCl	2x40 mL	1045	P02D	
☐ BNA Extractables	YES NO	4° C	4x1 L Amb GL			
☐ PCBs/Pesticides	YES NO	4° C				
☐ TAL Metals	YES NO	HNO_3/4° C	1 L PL			
☐ Cyanide	YES NO	NaOH/4° C	1 L PL			
☐ ___	YES NO					

AF-206/A

Signed: [signature]

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
CIBA	02510-0052	04/27/98/0930	

Contractor Personnel: Paul Perrotti & Greg Harrison

TRC Personnel: A. Balogh

Sample No.:

Well Location: MW-2S

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	✓	
Concrete Collar Intact		✓
PVC Stick-up Intact	✓	
Well Cap Present	✓	
Security Lock Present		✓

Protective Casing Stick-up (from ground) ~3.5 ft.

Riser Stick-up (from ground) ~3.0 ft.

Well Depth 18.5 ft. ☐ top of riser ☑ top of casing ☐ ___ ☑ measured ☐ historical

Water Depth 6.4 ft.

WELL DIAMETER ☐ 2 inch ☑ 4 inch ☐ 6 inch ☐ ___

Height of Water Column 12.1 ft. x ☐ .16 gal/ft (2 in.) ☑ .65 gal/ft (4 in.) ☐ 1.5 gal/ft (6 in.) ☐ ___ gal/ft (___ in.)

Volume of Water in Well = 7.87 gallon(s)

___ Total gallons to purge

[Vol. = $r^2h(0.163)$]

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	Not Measured	
Well Mouth		

WELL MATERIAL ☐ PVC ☑ SS ☐ ___

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)	7.9	15.8	24.7				
pH (Std. Units)	7.7	8.2	8.2				
Eh (millivolts)							
Conduct. (µmhos/cm)	178	47.3	~~87.3~~ 46.7				
Temp. ~~(C)~~ F	56.8	55.9	55.2				
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear ☐ Turbid ☑

Color rusty

Odor Chemical-like

Other ___

SAMPLE EQUIP./DECON.	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump	✓	
Bailer		
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing	✓	
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
___		

EQUIPMENT ID

Whale pump - purge

Sample with SS bennett bailer

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED

Tap Water	
Alconox	
Tap Water	
HNO_3 (1 or 10%)	
Tap Water	
Methanol	
Hexane	
Acetone	
Air Dry	
DI Water	
Air Dry	
None	

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	~~CLP~~ Sample #	CLP Case #
☒ ~~TCL~~ Volatiles	YES (NO)	4° C HCl	2x40 mL	1000	MW-02S	
☐ BNA Extractables	YES NO	4° C	4x1 L Amb GL			
☐ PCBs/Pesticides	YES NO	4° C				
☐ TAL Metals	YES NO	HNO_3/4° C	1 L PL			
☐ Cyanide	YES NO	NaOH/4° C	1 L PL			
☐ ___	YES NO					

AF-206/A

Signed: [signature]

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
Ciba	02510-0052	4/28/98 1315	

Contractor Personnel: Paul Perrotti / Greg Harrison

TRC Personnel: T. Majer

Sample No.: MW - 21S

Well Location: MW - 21S

WELL INTEGRITY

Flush Mount

	YES	NO
Protect. Casing Secure		X
Concrete Collar Intact		X
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present	X	

Protective Casing Stick-up (from ground) ___ ft.

Riser Stick-up (from ground) — ___ ft.

Well Depth 17.3 ft. [X] top of riser [ ] top of casing [ ] ___ [X] measured [ ] historical

Water Depth 4.0 ft.

WELL DIAMETER [ ] 2 inch [X] 4 inch [ ] 6 inch [ ] ___

Height of Water Column 13.3 ft. x [ ] .16 gal/ft (2 in.) [X] .65 gal/ft (4 in.) [ ] 1.5 gal/ft (6 in.) [ ] ___ gal/ft (___ in.)

Volume of Water in Well = 8.6 gallon(s)

25.9 Total gallons to purge

[Vol. = $r^2h(0.163)$]

WELL MATERIAL [ ] PVC [X] SS [ ] ___

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	NA	
Well Mouth	NA	

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)							
pH (Std. Units)	7.2	7.8					
Eh (millivolts)							
Conduct. (µmhos/cm)	38.6	36.0					
Temp. (C)	55	55					
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear [X] Turbid [ ]

Color Slight

Odor Slight

Other ___

SAMPLE EQUIP./DECON.

	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer		X
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
Whale Pump		

EQUIPMENT ID: Whole-Pump for purging, bailer used to sample

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED

Tap Water	
Alconox	
Tap Water	
HNO_3 (1 or 10%)	
Tap Water	
Methanol	
Hexane	
Acetone	
Air Dry	
DI Water	
Air Dry	
None	

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
[X] TCL Volatiles 8260	YES (NO)	4° C HCl	2x40 mL	1315	—	—
[ ] BNA Extractables	YES NO	4° C	4x1 L Amb GL			
[ ] PCBs/Pesticides	YES NO	4° C				
[ ] TAL Metals	YES NO	HNO_3/4° C	1 L PL			
[ ] Cyanide	YES NO	NaOH/4° C	1 L PL			
[ ] ___	YES NO					

AF-306/A

Signed: Todd D Mayer

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
Cba	02510-0052	4/28/98 1115	

Contractor Personnel: Paul Perrotti & Greg Harrison

TRC Personnel: T. Majer

Sample No.: MW-14S

Well Location: MW-14S

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact	X	
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present	X	

Protective Casing Stick-up (from ground) ~1.5 ft.

Riser Stick-up (from ground) ~1.5 ft.

Well Depth 17.3 ft. [ ] top of riser [ ] top of casing [ ] _____ [ ] measured [X] historical

Water Depth ____ ft.

WELL DIAMETER [ ] 2 inch [X] 4 inch [ ] 6 inch [ ] ____

Height of Water Column ____ ft. x [ ] .16 gal/ft (2 in.) [ ] .65 gal/ft (4 in.) [ ] 1.5 gal/ft (6 in.) [ ] ___ gal/ft (__ in.)

Volume of Water in Well = _____ gallon(s)

[Vol. = $r^2h(0.163)$] _____ Total gallons to purge

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	NA	
Well Mouth	NA	

WELL MATERIAL [ ] PVC [X] SS [ ] ____

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)							
pH (Std. Units)							
Eh (millivolts)							
Conduct. (µmhos/cm)							
Temp. (C)							
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear [X] Turbid [ ]

Color None

Odor Strong Tarlike

Other _____

SAMPLE EQUIP./DECON.

	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer	X	X
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
_____		

EQUIPMENT ID: Bailer used for both purging and sampling. iNAPL was detected in this well.

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED: Tap Water; Alconox; Tap Water; HNO_3 (1 or 10%); Tap Water; Methanol; Hexane; Acetone; Air Dry; DI Water; Air Dry; None

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
[X] TCL Volatiles 8260	YES (NO)	4° C HCl	2x40 mL	1115	–	–
[ ] BNA Extractables	YES NO	4° C	4x1 L Amb GL			
[ ] PCBs/Pesticides	YES NO	4° C				
[ ] TAL Metals	YES NO	HNO_3/4° C	1 L PL			
[ ] Cyanide	YES NO	NaOH/4° C	1 L PL			
[ ] _____	YES NO					

Signed: Todd D Majer

AF-300A

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
Ciba	02510-0052	4/28/97 1050	

Contractor Personnel: Paul Renzotti & Greg Harrison

TRC Personnel: T Meyer

Sample No.: mw-4S / mw-4SD Well Location: mw-4S

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact	X	
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present	X	

Protective Casing Stick-up (from ground) 2.2 ft.

Riser Stick-up (from ground) 2.2 ft.

Well Depth 21.6 ft. [X] top of riser [ ] top of casing [ ] ___ [X] measured [ ] historical

Water Depth 10.4 ft.

Height of Water Column 11.2 ft. x [ ] .16 gal/ft (2 in.) [X] .65 gal/ft (4 in.) [ ] 1.5 gal/ft (6 in.) [ ] ___ gal/ft (___ in.)

Volume of Water in Well = 7.28 gallon(s)

21.84 Total gallons to purge

[Vol. = $r^2h(0.163)$]

WELL DIAMETER [ ] 2 inch [X] 4 inch [ ] 6 inch [ ] ___

WELL MATERIAL [ ] PVC [X] SS [ ] ___

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	NA	
Well Mouth	NA	

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)							
pH (Std. Units)	7.3	7.4					
Eh (millivolts)							
Conduct. (µmhos/cm)	66.5	56.9					
Temp. (C)	65.2	63.4					
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear [X] Turbid [ ]

Color None

Odor Slight

Other ___

SAMPLE EQUIP./DECON.

	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer		X
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
whole Pump	X	

EQUIPMENT ID: Whole-Pump was used for purging and bailer for sampling

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED: Tap Water; Alconox; Tap Water; HNO_3 (1 or 10%); Tap Water; Methanol; Hexane; Acetone; Air Dry; DI Water; Air Dry; None

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
[X] TCL Volatiles 8260	YES (NO)	4° C HCl	2x40 mL	1050	—	—
[ ] BNA Extractables	YES NO	4° C	4x1 L Amb GL			
[ ] PCBs/Pesticides	YES NO	4° C				
[ ] TAL Metals	YES NO	HNO_3/4° C	1 L PL			
[ ] Cyanide	YES NO	NaOH/4° C	1 L PL			
[ ] ___	YES NO					

Signed: Todd D. Meyer

AF-308A

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
Ciba	02510-0052	4/28/98 0945	

Contractor Personnel: Paul Pezzetti & Greg Harrison

TRC Personnel: T. Majer

Sample No.: MW-12S

Well Location: MW-12S 0945

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact		X
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present	X	

Protective Casing Stick-up (from ground) ~2.0 ft.

Riser Stick-up (from ground) ~2.0 ft.

Well Depth 21.6 ft. [X] top of riser [ ] top of casing [X] measured [ ] historical

Water Depth 11.3 ft.

Height of Water Column 10.3 (TW) 11.2 ft. x [ ] .16 gal/ft (2 in.) [X] .65 gal/ft (4 in.) [ ] 1.5 gal/ft (6 in.) [ ] ___ gal/ft (___ in.)

Volume of Water in Well = ~~7.28~~ 6.69 (TW) gallon(s)

[Vol. = r^2h(0.163)]

(TW) ~~21.84~~ 20.08 Total gallons to purge

WELL DIAMETER: [ ] 2 inch [X] 4 inch [ ] 6 inch [ ] ___

WELL MATERIAL: [ ] PVC [X] SS [ ] ___

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	NA	
Well Mouth	NA	

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)								
pH (Std. Units)	8.0	7.4						
Eh (millivolts)								
Conduct. (µmhos/cm)	40.9	39						
Temp. (C)	54	53.4						
Turb. (NTU)								
DO (mg/l)								

Sample Description

Clear [X] Turbid [ ]

Color None

Odor Slight

Other

SAMPLE EQUIP./DECON.

	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer		X
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
Whole-Pump	X	

EQUIPMENT ID: Whole Pump used to purge and bailer used to sample

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED

Tap Water	
Alconox	
Tap Water	
HNO_3 (1 or 10%)	
Tap Water	
Methanol	
Hexane	
Acetone	
Air Dry	
DI Water	
Air Dry	
None	

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
[X] TCL Volatiles 8260	YES (NO)	4° C HCl	2x40 mL	0945	—	—
[ ] BNA Extractables	YES NO	4° C	4x1 L Amb GL			
[ ] PCBs/Pesticides	YES NO	4° C				
[ ] TAL Metals	YES NO	HNO_3/4° C	1 L PL			
[ ] Cyanide	YES NO	NaOH/4° C	1 L PL			
[ ] ___	YES NO					

AF-206/A

Signed: Todd D. Majer

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
Ciba	02510-0052	4/28/98 0910	

Contractor Personnel: Paul Perrotti & Greg Harrison

TRC Personnel: T. Majer

Sample No.: MW-13S

Well Location: MW-13S

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact		X
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present	X	

Protective Casing Stick-up (from ground) ~2.0 ft.

Riser Stick-up (from ground) ~2.0 ft.

Well Depth 19.6 ft. [ ] top of riser [ ] top of casing [ ] ___ [ ] measured [ ] historical

Water Depth 8.6 ft.

WELL DIAMETER [ ] 2 inch [X] 4 inch [ ] 6 inch [ ] ___

Height of Water Column 11 ft. x [ ] .16 gal/ft (2 in.) [X] .65 gal/ft (4 in.) [ ] 1.5 gal/ft (6 in.) [ ] ___ gal/ft (___ in.)

Volume of Water in Well = 7.15 gallon(s)

21.45 Total gallons to purge

[Vol. = $r^2h(0.163)$]

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	NA	
Well Mouth	NA	

WELL MATERIAL [ ] PVC [X] SS [ ] ___

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)							
pH (Std. Units)	8.2	7.9					
Eh (millivolts)							
Conduct. (µmhos/cm)	43.0	43.1					
Temp. (C)	54.6	55					
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear [X] Turbid [ ]

Color None

Odor Slight

Other

SAMPLE EQUIP./DECON.

	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer		
Waterra		X
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
Whole Pump	X	

EQUIPMENT ID: Whole Pump was used for purging and a bailer for sample collection

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED

- [ ] Tap Water
- [ ] Alconox
- [ ] Tap Water
- [ ] HNO_3 (1 or 10%)
- [ ] Tap Water
- [ ] Methanol
- [ ] Hexane
- [ ] Acetone
- [ ] Air Dry
- [ ] DI Water
- [ ] Air Dry
- [ ] None

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
[X] TCL Volatiles 8260	YES (NO)	4° C HCl	2x40 mL	0910	—	—
[ ] BNA Extractables	YES NO	4° C	4x1 L Amb GL			
[ ] PCBs/Pesticides	YES NO	4° C				
[ ] TAL Metals	YES NO	HNO_3/4° C	1 L PL			
[ ] Cyanide	YES NO	NaOH/4° C	1 L PL			
[ ] ___	YES NO					

AF-206/A

Signed: Todd D. Majer

Rev: 8 July 1991

TRC Companies, Inc.

Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ___ of ___
Ciba	02510-005 2	4/28/98 0835	

Contractor Personnel: Paul Perrotti & Greg Hanson

TRC Personnel: T. Mayer

Sample No.: P-385

Well Location: P-385

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact		X
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present	X	

Protective Casing Stick-up (from ground) ~2.0 ft.

Riser Stick-up (from ground) ~2.0 ft.

Well Depth 18.2 ft. [X] top of riser [ ] top of casing [ ] ___ [X] measured [ ] historical

Water Depth 6.8 ft.

WELL DIAMETER [X] 2 inch [ ] 4 inch [ ] 6 inch [ ] ___

Height of Water Column 11.4 ft. x [X] .16 gal/ft (2 in.) [ ] .65 gal/ft (4 in.) [ ] 1.5 gal/ft (6 in.) [ ] ___ gal/ft (___ in.)

Volume of Water in Well = 1.8 gallon(s)

5.5 Total gallons to purge

[Vol. = $r^2h(0.163)$]

WELL MATERIAL [ ] PVC [ ] SS [ ] ___

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	NA	
Well Mouth	NA	

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)							
pH (Std. Units)	9.8	9.0					
Eh (millivolts)	36.5	36.3					
Conduct. (µmhos/cm)	~~56.3~~	~~55.4~~					
Temp. (C)	56.3	55.4					
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear [X] Turbid [ ]

Color None

Odor None

Other ___

SAMPLE EQUIP./DECON.

	PURGE	SAMPLE
Peristaltic Pump		
Submersible Pump		
Bailer		X
Waterra		
PVC/Silicon Tubing		
Teflon/Silicon Tubing		
Air Lift		
In-line Filter		
Pressure Vacuum Filter		
Measuring Tape		
Whale Pump	X	

EQUIPMENT ID

Purged well with whale Pump

Sampled with Bailer

DESCRIPTION OF DECON. PROC.

DECON. FLUID USED

- [ ] Tap Water
- [ ] Alconox
- [ ] Tap Water
- [ ] HNO_3 (1 or 10%)
- [ ] Tap Water
- [ ] Methanol
- [ ] Hexane
- [ ] Acetone
- [ ] Air Dry
- [ ] DI Water
- [ ] Air Dry
- [ ] None

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
[X] TCL Volatiles 8260	YES (NO)	4° C HCl	2x40 mL	0835	—	
[ ] BNA Extractables	YES NO	4° C	4x1 L Amb GL			
[ ] PCBs/Pesticides	YES NO	4° C				
[ ] TAL Metals	YES NO	HNO_3/4° C	1 L PL			
[ ] Cyanide	YES NO	NaOH/4° C	1 L PL			
[ ] ___	YES NO					

AF-306/A

Signed: Todd D. Mayer

Rev: 6 July 1991

ATTACHMENT B

COPY OF LOG BOOK

Allen S Baff 04/27/98 (1)

0830 Arrive @ Ciba-Specialty site. Sign in @ field office with Walter Allen (Ciba) and meet Paul Perrotti (RI Analytical).
Objective: obtain groundwater splits samples for VOC analysis of all wells being sampled by RIA. Reportedly, 16 points will be sampled during this gw sampling event.
Splits to be obtained as outlined in 4/15/98 addendum to the 6/26/95 FOWP.
A copy of the RIA SOP for gw sampling at the Ciba-site is in my possession to verify procedures used to obtain samples.
0915 RIA awaiting delivery of addt'l sampling equipment
Proceed to sampling areas to review today's proposed activities.
MW-2S.
Greg Harrison (RIA) also onsite

2

7

(4) [illegible] 04/27/98

list of all wells to be sampled by RIA:

VE-11, MW-13S, SW-110, SW-170, SW-130, MW-1S, MW-02S, MW-04S, MW-12S, MW-21S, P-34S, P-35S, P-36S, P-37S, P-38S, and P02D.

0930 proceed to MW-2S, located in SE corner along wall. See field gw data sheet for purging info. RIA purging with whale submersible pump and teflon tubing. RIA plans to sample with a bailer (disposable).

photo #1 view to North across site

photo #2 view to East across site

photo #3 view to south across site

photo #4 view to west across site.

1000 Obtain MW-02S split.

[illegible]

[illegible] 04/27/98 (5)

1000 proceed to P-02D

see gw data sheet for details

photo #5 RIA obtaining gw level in P-02D.

1045 Obtain P02D split

1050 proceed to P-35S.

see gw data sheet for details

photo #6 view to South

view of P-35S along river

1115 obtain P-35S split

proceed to SW-120.

photo #7 RIA purging SW-120 with bailer.

SW-120 is also labelled MW-31S.

→ see gw data sheet for details

1145 obtain SW-120 split sample.

1150 proceed to P-36S

1210 Obtain Rinsate/equipment blank while purging P-36S.

RIA has brought ~15 SS bailers to sample wells. RIA describes decon process in lab: DI rinse, alconox wash, DI rinse, methanol rinse, and DI rinse.

[illegible]

(6) [signature] 4/27/98

~~1212~~ 1215 obtain PW-36S triple volume for VOC MS/MSD.

1225 proceed to P-34S
see gw data sheet for details
photo #98 view to East
view of RIA purging P-34S.

1245 allow P-34S to recharge. RIA departs to get add'l bailers.
Break for lunch

1315 back onsite
update J Hall (TRC) re: activities.

1345 obtain P-34S split sample

1400 proceed to ~~R~~ MW-1S
see gw data sheet

1415 proceed to SW-130, MW-1S recharges
see gw data sheet.

1430 obtain SW-130

1445 MW-1S still recharging
proceed to ~~MW~~ P-37S

1515 slow recharge @ P-37S
proceed to SW-110.
See gw data sheet

[signature]

[signature] 4/27/98 (7)

photo #~~10~~ 9 view to East
view of P-37S
photo #~~11~~ 10 view to ~~SW~~ east
view of SW-110.

1530 obtain P-37S split sample

1555 obtain MW-1S

1615 sign out from facility
off site
return to Lowell to pack
& send samples to lab

[signature] 4/27/98

(8) Todd D. Major 4/28/98

0745 Arrive at Ciba-Geigy to collect GW split-samples with R.I analytical - TS-02 collected

0800 Paul & Greg from RI analytical on-site to collect samples.

0815 WL 6.8. P-38S TD - 18.2

Located along Rivbank

photo #12 - well location

P-38S

Ht of water column 11.4

purge volume 5.5 gal.

	Vol 1	Vol 2
pH	9.8	9.0
Spec Cond	36.5	36.3
temp	56.3	55.4
DO		

0835 Sampling P-38S

0840 Arrive at MW-13S, South of Main treatment Bldg.

W.L - 8.6

TD - 19.6

Ht of Column - 11.0

purge volume. - 22 gals

Todd D. Major 4/28/98

TDM 4/28/98 (9)

	Vol 1	Vol 2
pH.	8.2	7.9
Cond.	43.0	43.1
temp.	54.6	55.
DO.		

0910 Sampling MW-13S

0920 Arrive at MW-12S, purging has started.

W.L: ~~21.~~ TM 21.6

TD: 11.3'

Ht of Column: 10.3'

Purge Vol: 20 gal

	Vol 1	Vol 2
pH	8.0	7.4
Cond	40.9	39
temp	54.0	53.4

pic # 13 - MW-12S

0945 Sampling MW-12S

0955 Mobilize to MW-4S

pic # 14 - MW-4S

DTW - 10.4

TD - 21.6

Ht H_2O Col - 11.2

Purge 23 gals.

4/28/98 Todd D. Major

(10) TDM 4/28/98

	Vol 1	Vol 2
pH	7.3	7.4
cond	66.5	56.7
temp	65.2	63.4

11 gallons removed before well next day.

1050 Sampling MW-45 1130 Sampling MW-45D
Collected duplicate sample
RI Analytical collected a Rinsate blank here on this well.

1105 Mobilize to MW-145, product visible in 5 gal bucket. Odor, upgradient. RI Analytical will not take reading here due to the presence of toluene. picture # 15 - MW-145 site.
TD = 17.3
Will purge 15 gallons prior to sampling.

1115 Sampling MW-145 (Due to the duplicate sample, sample was actually collected @ 1130

Todd D. Major 4/28/98

TDM 4/28/98 (11)

1200 off site to lunch
1235 Arrive at MW-21S
TD - 17.3 DTW - 4.0 HC - 13.3 wl -

	Vol 1	Vol 2
pH	7.20	7.8
cond	38.6	36.0
temp	55.0	56.0

1315 Sampling MW-21S
1330 TRC OFF SITE

Todd D. Major 4/28/98

ATTACHMENT C

PHOTOGRAPH LOG

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998

Photo #1. View to the North Across Site.

Photo #2. View to the East Across Site

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998

Photo #3. View to the South Across Site.

Photo #4. View to the West Across Site.

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998

Photo #5. RIA measuring GW level in P-02D.

Photo #6. View to the South, Well P-35S along river.

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998

Photo #7. RIA purging SW-120 with bailer.

Photo #8. View to the East, RIA pumping P-34S

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998

Photograph #9. View to the East, Well P-37S.

Photo #10. View to the East, Well SW-110.

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998

Photo #11. View to the East, Well SW-110.

Photo #12. Well location P-38S.

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998

Photo #13. Sampling location MW-12S.

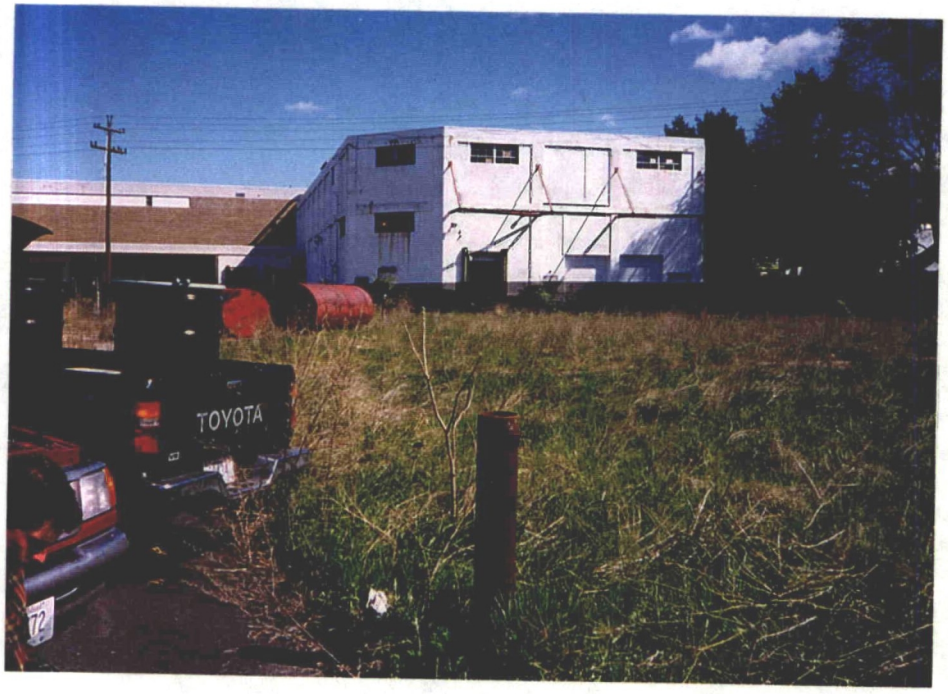

Photo #14. Well 4S location.

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998

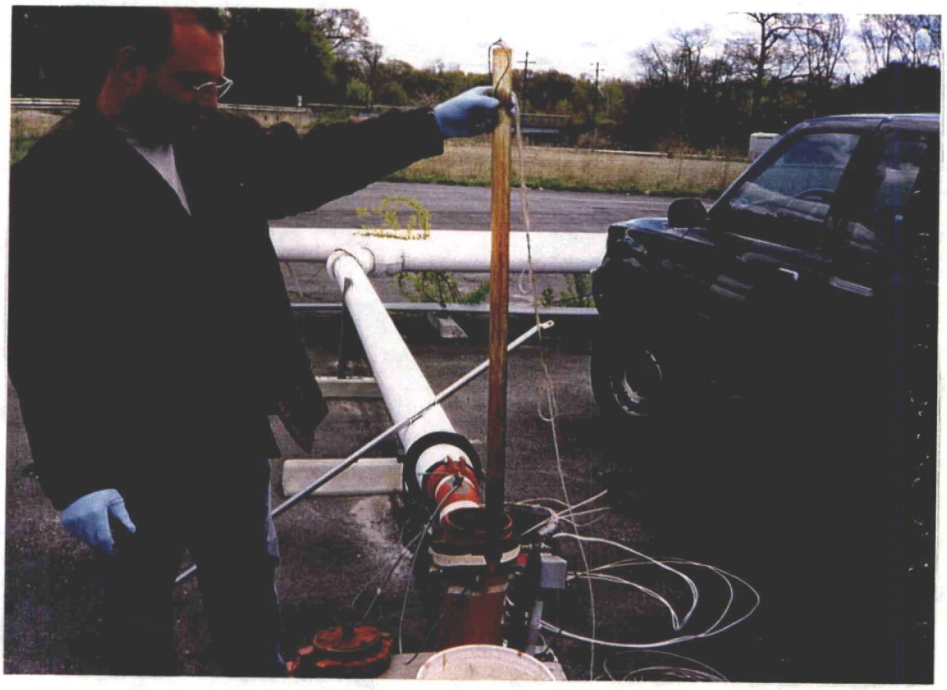

Photo #15. Visible product encountered in MW-14S.

Photo #16. Monitoring well 21S outside of Ciba-Geigy fence line.

ATTACHMENT D

CHAIN-OF-CUSTODY FORMS

QST ENVIRONMENTAL

404 SW 140th Terrace, Newberry, FL 32669
Telephone: (352) 332-3318 – Fax: (352) 332-0507

FOR LAB USE ONLY

Project Number:

02680

Chain of Custody Record

Client: TRC Environmental Corp
Address: Boott Mills South
Foot of John St
Lowell, MA 01852
Phone #: (978) 470-5600 Fax #: (978) 453 1995
P.O. #:
Client Contact: Joanna Hill
Project # / Location: 025100-0052 CMA

Sample Type:
1. Water
2. Soil
3. Sludge
4. Oil
5. Tissue
Other :

Container Type:
P - Plastic
G - Glass
V - VOC

Preservative:
1. None
2. H2SO4
3. HNO3
4. NaOH
5. HCl

Analyses

Sample I.D. (10 Characters ONLY)	Sample Type	Container Size	Container Type	Container No.	Sampling Date	Sampling Time	Preservative	Lab I.D.	VOC (8260)	pH	Specific Conductivity	Temperature	Components
TB-02	1	40 ml	G	2 x	4/28/98	0745	5		✓				
P-38S	1	40 ml	G	2 x		0835	5		✓				
MW-13S	1	40 ml	G	2 x		0910	5		✓				
MW-12S	1	40 ml	G	2 x		0945	5		✓				
MW-4S	1	40 ml	G	2 x		1050	5		✓				
MW-4SD	1	40 ml	G	2 x		1130	5		✓				
MW-14S	1	40 ml	G	2 x		1215	5		✓				
MW-21S	1	40 ml	G	2 x		1315	5		✓				

Relinquished By:	Date:	Received By:	Date:
Todd D. Mayo	4-28-98	Fed Ex 9056 8532 1324	-- --
	Time: 10:30		Time: :
Relinquished By:	Date: -- --	Received For Lab By:	Date: -- --
	Time: :		Time: :

FOR LAB USE ONLY
Sample Received Chilled: °C
Yes No

SPECIAL INSTRUCTIONS:

Copies: White - Client Canary - Lab Receiving Pink - Lab File Goldenrod - Retained by Sampler

QST ENVIRONMENTAL

404 SW 140th Terrace, Newberry, FL 32669
Telephone: (352) 332-3318 – Fax: (352) 332-0507

FOR LAB USE ONLY
Project Number: _____

Chain of Custody Record

Client: TRC Environmental Corp
Address: South Mills
Foot of John St
Lowell, MA 01852
Phone #: (978) 970 - 5600 Fax #: (978) 453 - 1995
P.O. #:
Client Contact: Jonathan Hall
Project # / Location: 07510.0052 / CIBM

Sample Type:
1. Water
2. Soil
3. Sludge
4. Oil
5. Tissue
Other: _____

Container Type:
P - Plastic
G - Glass
V - VOC

Preservative:
1. None
2. H2SO4
3. HNO3
4. NaOH
5. HCl

Analyses: VOC (8260), pH, Specific Conductivity, Temperature

Sample I.D. (10 Characters ONLY)	Sample Type	Container Size	Container Type	Container No.	Sampling Date	Sampling Time	Preservative	Lab I.D.	VOC (8260)	pH	Specific Conductivity	Temperature	Comments
MW-02S	1	40ml	Glass	2x	4/27/98	1000	5		✓				
P-02D	1	40ml	Glass	2x	4/27/98	1045	5		✓				
P-35S	1	40ml	Glass	2x	4/27/98	1115	5		✓				
SW-120	1	40ml	Glass	2x	4/27/98	1145	5		✓				
P-36S	1	40ml	Glass	6	4/27/98	1215	5		✓				MS/MSD
RB-1	1	40ml	Glass	2x	4/27/98	1210	5		✓				4oz Rinsate blank
P-34S	1	40ml	Glass	2x	4/27/98	1345	5		✓				
SW-130	1	40ml	Glass	2x	4/27/98	1430	5		✓				
P-37S	1	40ml	Glass	2x	4/27/98	1530	5		✓				
SW-110	1	40ml	Glass	2x	4/27/98	1540	~~5~~		✓				
MW-15	1	40ml	Glass	2x	4/27/98	1545	5		✓				
TB-01	1	Supplied by lab							✓				trip blank

Relinquished By:	Date: 04 – 27 – 98 Time: 19 :00	Received By: [illegible] Anthill #5507(87)	Date: – – Time: :
Relinquished By:	Date: – – Time: :	Received For Lab By:	Date: – – Time: :

FOR LAB USE ONLY
Sample Receipt Only
Pulse: _____ Temp: _____

SPECIAL INSTRUCTIONS:

Copies: White - Client, Canary - Lab Receiving, Pink - Lab File, Goldenrod - Retained by Sampler

ATTACHMENT E

ANALYTICAL DATA SHEETS

FORM 1
ANALYSIS DATA SHEET

Client ID

MW-02S

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*1

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 1538 Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	64.	
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	1.5	J
67-64-1	ACETONE	16.	
75-15-0	CARBON DISULFIDE	4.3	J
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	17.	
75-34-3	1,1-DICHLOROETHANE	0.96	J
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2400.	D40
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	0.64	J
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	13.	
79-01-6	TRICHLOROETHENE	12.	
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	86.	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	8.3	
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	2000.	D40
100-41-4	ETHYLBENZENE	9.3	
1330-20-7	XYLENES,TOTAL	22.	
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

P-02D

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*2

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 1609 Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.9	
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES,TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

P-35S

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*3

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 1639 Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	5.2	
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	2.6	J
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	0.98	J
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	11.	
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	5.1	
79-01-6	TRICHLOROETHENE	2.0	J
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	2.7	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	730.	D5
100-41-4	ETHYLBENZENE	5.8	
1330-20-7	XYLENES,TOTAL	11.	
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-120

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*4

Sample wt/vol: . Lab File ID: G90595

Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 1710 Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	1.8	J
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	0.60	J
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	0.64	J
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	79.	
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES,TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

P-36S

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*5

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 1407 Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	1.8	J
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	0.81	J
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.0	J
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	2.9	
79-01-6	TRICHLOROETHENE	1.5	J
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	0.92	J
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	410.	D5
100-41-4	ETHYLBENZENE	0.86	J
1330-20-7	XYLENES,TOTAL	0.96	J
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

RB-1

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*6

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 1740 Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES,TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

P-34S

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*7

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 1811 Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	0.66	J
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	7.9	
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	120.	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	690.	D5
100-41-4	ETHYLBENZENE	3.6	
1330-20-7	XYLENES,TOTAL	9.4	
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-130

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*8

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 1841 Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	2.5	J
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	17.	
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES,TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

P-37S

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*9

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 1911 Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	1.3	J
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	1.1	J
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	9.0	
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	0.57	J
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	790.	D5
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES,TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-110

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*10

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 1942 Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	3.4	J
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	1.7	J
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	3.4	
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	28.	
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	250.	D20
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1300.	D20
100-41-4	ETHYLBENZENE	2.3	
1330-20-7	XYLENES,TOTAL	6.4	
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

MW-1S

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*11

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 2012 Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	35.	
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	3.3	
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.9	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	3800.	D20
100-41-4	ETHYLBENZENE	4.1	
1330-20-7	XYLENES,TOTAL	2.6	J
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

P-38S

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*14

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/29/98

Injection Volume: Date Extracted:

Time Analyzed: 1747 Date Analyzed: 05/06/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES,TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

MW-13S

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*15

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/29/98

Injection Volume: Date Extracted:

Time Analyzed: 1817 Date Analyzed: 05/06/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.9	
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES,TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

MW-12S

ab Name: QST Project No.: 1298524 SDG No.: G90595

atrix: (soil/water) WATER Lab Sample ID: TLCEDW1*16

ample wt/vol: . Lab File ID: G90595

Moisture: 0.0 Dilution Factor: 1.00

oncentrated Extract Volume: Date Received: 04/29/98

njection Volume: Date Extracted:

ime Analyzed: 1847 Date Analyzed: 05/06/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	61.	
1330-20-7	XYLENES,TOTAL	120.	
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

MW-4S

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*17

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 5.00

Concentrated Extract Volume: Date Received: 04/29/98

Injection Volume: Date Extracted:

Time Analyzed: 2126 Date Analyzed: 05/05/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	22.	UD5
75-01-4	VINYL CHLORIDE	23.	UD5
74-83-9	BROMOMETHANE	18.	UD5
75-00-3	CHLOROETHANE	41.	UD5
75-35-4	1,1-DICHLOROETHYLENE	16.	UD5
67-64-1	ACETONE	45.	UD5
75-15-0	CARBON DISULFIDE	22.	UD5
75-09-2	METHYLENE CHLORIDE	32.	UD5
156-60-5	TRANS-1,2-DICHLOROETHENE	12.	UD5
75-34-3	1,1-DICHLOROETHANE	1.7	JD5
108-05-4	VINYL ACETATE	50.	UD5
156-59-2	CIS-1,2-DICHLOROETHENE	25.	D5
78-93-3	METHYL ETHYL KETONE (MEK)	50.	UD5
67-66-3	CHLOROFORM	13.	UD5
71-55-6	1,1,1-TRICHLOROETHANE	1.5	JD5
107-06-2	1,2-DICHLOROETHANE	13.	UD5
56-23-5	CARBON TETRACHLORIDE	13.	UD5
71-43-2	BENZENE	1.7	JD5
79-01-6	TRICHLOROETHENE	15.	UD5
78-87-5	1,2-DICHLOROPROPANE	10.	UD5
75-27-4	BROMODICHLOROMETHANE	11.	UD5
10061-01-5	CIS-1,3-DICHLOROPROPENE	10.	UD5
108-10-1	METHYL ISOBUTYL KETONE	60.	UD5
108-88-3	TOLUENE	1500.	D40
10061-02-6	TRANS-1,3-DICHLOROPROPENE	8.0	UD5
79-00-5	1,1,2-TRICHLOROETHANE	14.	UD5
127-18-4	TETRACHLOROETHENE	9.5	UD5
591-78-6	2-HEXANONE (MBK)	110.	UD5
124-48-1	DIBROMOCHLOROMETHANE	12.	UD5
108-90-7	CHLOROBENZENE	210.	D5
100-41-4	ETHYLBENZENE	33.	D5
1330-20-7	XYLENES,TOTAL	120.	D5
100-42-5	STYRENE	2.5	UD5
75-25-2	BROMOFORM	13.	UD5
79-34-5	1,1,2,2-TETRACHLOROETHANE	7.5	UD5

FORM 1
ANALYSIS DATA SHEET

Client ID

MW-4SD

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*18

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 5.00

Concentrated Extract Volume: Date Received: 04/29/98

Injection Volume: Date Extracted:

Time Analyzed: 2157 Date Analyzed: 05/05/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	22.	UD5
75-01-4	VINYL CHLORIDE	23.	UD5
74-83-9	BROMOMETHANE	18.	UD5
75-00-3	CHLOROETHANE	41.	UD5
75-35-4	1,1-DICHLOROETHYLENE	16.	UD5
67-64-1	ACETONE	45.	UD5
75-15-0	CARBON DISULFIDE	22.	UD5
75-09-2	METHYLENE CHLORIDE	32.	UD5
156-60-5	TRANS-1,2-DICHLOROETHENE	12.	UD5
75-34-3	1,1-DICHLOROETHANE	13.	UD5
108-05-4	VINYL ACETATE	50.	UD5
156-59-2	CIS-1,2-DICHLOROETHENE	12.	UD5
78-93-3	METHYL ETHYL KETONE (MEK)	50.	UD5
67-66-3	CHLOROFORM	1.5	JD5
71-55-6	1,1,1-TRICHLOROETHANE	13.	UD5
107-06-2	1,2-DICHLOROETHANE	13.	UD5
56-23-5	CARBON TETRACHLORIDE	13.	UD5
71-43-2	BENZENE	1.4	JD5
79-01-6	TRICHLOROETHENE	15.	UD5
78-87-5	1,2-DICHLOROPROPANE	10.	UD5
75-27-4	BROMODICHLOROMETHANE	11.	UD5
10061-01-5	CIS-1,3-DICHLOROPROPENE	10.	UD5
108-10-1	METHYL ISOBUTYL KETONE	60.	UD5
108-88-3	TOLUENE	2100.	D40
10061-02-6	TRANS-1,3-DICHLOROPROPENE	8.0	UD5
79-00-5	1,1,2-TRICHLOROETHANE	14.	UD5
127-18-4	TETRACHLOROETHENE	2.3	JD5
591-78-6	2-HEXANONE (MBK)	110.	UD5
124-48-1	DIBROMOCHLOROMETHANE	12.	UD5
108-90-7	CHLOROBENZENE	150.	D5
100-41-4	ETHYLBENZENE	41.	D5
1330-20-7	XYLENES,TOTAL	150.	D5
100-42-5	STYRENE	2.5	UD5
75-25-2	BROMOFORM	13.	UD5
79-34-5	1,1,2,2-TETRACHLOROETHANE	7.5	UD5

FORM 1
ANALYSIS DATA SHEET

Client ID

MW-14S

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*19

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 100

Concentrated Extract Volume: Date Received: 04/29/98

Injection Volume: Date Extracted:

Time Analyzed: 2257 Date Analyzed: 05/05/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	440.	UD100
75-01-4	VINYL CHLORIDE	460.	UD100
74-83-9	BROMOMETHANE	350.	UD100
75-00-3	CHLOROETHANE	820.	UD100
75-35-4	1,1-DICHLOROETHYLENE	320.	UD100
67-64-1	ACETONE	900.	UD100
75-15-0	CARBON DISULFIDE	440.	UD100
75-09-2	METHYLENE CHLORIDE	640.	UD100
156-60-5	TRANS-1,2-DICHLOROETHENE	240.	UD100
75-34-3	1,1-DICHLOROETHANE	250.	UD100
108-05-4	VINYL ACETATE	1000.	UD100
156-59-2	CIS-1,2-DICHLOROETHENE	240.	UD100
78-93-3	METHYL ETHYL KETONE (MEK)	1000.	UD100
67-66-3	CHLOROFORM	250.	UD100
71-55-6	1,1,1-TRICHLOROETHANE	250.	UD100
107-06-2	1,2-DICHLOROETHANE	250.	UD100
56-23-5	CARBON TETRACHLORIDE	260.	UD100
71-43-2	BENZENE	14.	JD100
79-01-6	TRICHLOROETHENE	300.	UD100
78-87-5	1,2-DICHLOROPROPANE	200.	UD100
75-27-4	BROMODICHLOROMETHANE	220.	UD100
10061-01-5	CIS-1,3-DICHLOROPROPENE	200.	UD100
108-10-1	METHYL ISOBUTYL KETONE	1200.	UD100
108-88-3	TOLUENE	230000.	D2000
10061-02-6	TRANS-1,3-DICHLOROPROPENE	160.	UD100
79-00-5	1,1,2-TRICHLOROETHANE	280.	UD100
127-18-4	TETRACHLOROETHENE	130.	JD100
591-78-6	2-HEXANONE (MBK)	2100.	UD100
124-48-1	DIBROMOCHLOROMETHANE	230.	UD100
108-90-7	CHLOROBENZENE	130.	JD100
100-41-4	ETHYLBENZENE	1600.	D100
1330-20-7	XYLENES,TOTAL	7300.	D100
100-42-5	STYRENE	50.	UD100
75-25-2	BROMOFORM	260.	UD100
79-34-5	1,1,2,2-TETRACHLOROETHANE	150.	UD100

FORM 1
ANALYSIS DATA SHEET

Client ID

MW-21S

Lab Name: QST Project No.: 1298524 SDG No.: G90595

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*20

Sample wt/vol: . Lab File ID: G90595

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/29/98

Injection Volume: Date Extracted:

Time Analyzed: 1917 Date Analyzed: 05/06/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES,TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

TB-01

Lab Name: QST Project No.: 1298524 SDG No.: G90413

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*12

Sample wt/vol: . Lab File ID: G90413

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/28/98

Injection Volume: Date Extracted:

Time Analyzed: 1659 Date Analyzed: 04/30/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES,TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

TB-02

Lab Name: QST Project No.: 1298524 SDG No.: G90413

Matrix: (soil/water) WATER Lab Sample ID: TLCEDW1*13

Sample wt/vol: . Lab File ID: G90413

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 04/29/98

Injection Volume: Date Extracted:

Time Analyzed: 1733 Date Analyzed: 04/30/98

CAS NO.	COMPOUND	CONCENTRATION UNITS UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES,TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U