METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230137 **Work Order #...:** CF3WL101 **Matrix.....:** WATER
MB Lot-Sample #: A8A270000-198

Prep Date.....: 01/27/98
Analysis Date..: 01/27/98 **Prep Batch #...:** 8027198
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(69 - 127)
Toluene-d8	100	(90 - 112)
Bromofluorobenzene	100	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230137 **Work Order #...:** CF457101 **Matrix.....:** WATER
MB Lot-Sample #: A8A280000-118

Prep Date.....: 01/27/98
Analysis Date..: 01/27/98 **Prep Batch #...:** 8028118
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	107	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230137 **Work Order #...:** CF4M8101 **Matrix.....:** WATER
MB Lot-Sample #: A8A290000-121

Prep Date.....: 01/28/98
Analysis Date..: 01/28/98 **Prep Batch #...:** 8029121
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(69 - 127)
Toluene-d8	97	(90 - 112)
Bromofluorobenzene	105	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A8A230137 **Work Order #...:** CF2D8102-MS **Matrix.....:** WATER
MS Lot-Sample #: A8A230105-016 CF2D8103-MSD
Date Sampled...: 01/21/98 16:24 **Date Received..:** 01/22/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8027198
Dilution Factor: 2.5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	89	(75 - 113)			SW846 8260A
	90	(75 - 113)	1.0	(0-20)	SW846 8260A
Trichloroethene	101	(71 - 110)			SW846 8260A
	99	(71 - 110)	1.2	(0-22)	SW846 8260A
Chlorobenzene	101	(81 - 115)			SW846 8260A
	103	(81 - 115)	2.0	(0-18)	SW846 8260A
Toluene	102	(78 - 126)			SW846 8260A
	101	(78 - 126)	0.86	(0-24)	SW846 8260A
Benzene	99	(78 - 117)			SW846 8260A
	101	(78 - 117)	1.6	(0-17)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(69 - 127)
	101	(69 - 127)
Toluene-d8	100	(90 - 112)
	99	(90 - 112)
Bromofluorobenzene	102	(87 - 114)
	104	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A8A230137 **Work Order #...:** CF2D3102-MS **Matrix.....:** WATER
MS Lot-Sample #: A8A230105-014 CF2D3103-MSD
Date Sampled...: 01/21/98 14:55 **Date Received..:** 01/22/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8028118
Dilution Factor: 33.33

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	88	(75 - 113)			SW846 8260A
	94	(75 - 113)	6.6	(0-20)	SW846 8260A
Trichloroethene	92	(71 - 110)			SW846 8260A
	100	(71 - 110)	6.1	(0-22)	SW846 8260A
Chlorobenzene	87	(81 - 115)			SW846 8260A
	94	(81 - 115)	7.2	(0-18)	SW846 8260A
Toluene	83	(78 - 126)			SW846 8260A
	89	(78 - 126)	7.4	(0-24)	SW846 8260A
Benzene	89	(78 - 117)			SW846 8260A
	97	(78 - 117)	9.0	(0-17)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(69 - 127)
	109	(69 - 127)
Toluene-d8	93	(90 - 112)
	92	(90 - 112)
Bromofluorobenzene	103	(87 - 114)
	103	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A8A230137 **Work Order #...:** CF2M7102-MS **Matrix.....:** WATER
MS Lot-Sample #: A8A230137-012 CF2M7103-MSD
Date Sampled...: 01/22/98 11:33 **Date Received..:** 01/23/98
Prep Date.....: 01/28/98 **Analysis Date..:** 01/28/98
Prep Batch #...: 8029121
Dilution Factor: 250

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	95	(75 - 113)			SW846 8260A
	100	(75 - 113)	5.4	(0-20)	SW846 8260A
Trichloroethene	92	(71 - 110)			SW846 8260A
	128 a	(71 - 110)	8.6	(0-22)	SW846 8260A
Benzene	95	(78 - 117)			SW846 8260A
	103	(78 - 117)	7.9	(0-17)	SW846 8260A
Toluene	91	(78 - 126)			SW846 8260A
	100	(78 - 126)	8.9	(0-24)	SW846 8260A
Chlorobenzene	93	(81 - 115)			SW846 8260A
	102	(81 - 115)	8.7	(0-18)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(69 - 127)
	105	(69 - 127)
Toluene-d8	95	(90 - 112)
	95	(90 - 112)
Bromofluorobenzene	105	(87 - 114)
	104	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

a Spiked analyte recovery is outside stated control limits.

CHRYSLER CORPORATION

Chain-of-Custody

00589 A

(3Chry4/Dayton)

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal Site Location: Dayton, Ohio Site Code: SC001 RFA Number: YGQP9800203-T Chrysler PM: GARY STANCZUK	Consultant: Leggette Brashears & Graham Address: 1270 West County Rd E Ste 700 St. Paul MN 55112 Consultant PM: Ken Vogel Phone: 612-490-4405 Fax: 612-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify) LAB DI H_2O

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC8260 - 40ml glass HCL								Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ___	Remarks
MWA-3	1/22/98	8:34	G	GW	3	X												
PZ-14I	↓	8:44	G	GW	3	X												
PZ-14I DUP		8:44	G	GW	3	X												
MWB-6		9:06	G	GW	3	X												
PZ-8I		9:57	G	GW	3	X												HIGHLY CONTAMINATED
~~PZ-8S~~ MW-8S		10:05	G	GW	3	X												" "
MW ~~PZ~~-8S DUP		10:05	G	GW	3	X												" "
FIELD BLANK		10:17	G	O	3	X												
PZ-8D		10:20	G	GW	3	X												HIGHLY CONTAMINATED
MW-10S	↓	11:11	G	GW	3	X												" "

Sampler(s)
Chris Hoffman
Mark Hemstreet
Dave Strand

Cooler ID # D50

Is RFA sampling complete? Yes No

Bottles Reliquished under Airbill No. 4314770-810

Samples Relinquished under Airbill No. 3930051101

Temperature (corrected) ___ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Mark P. Hemstreet	1/22/98	16:30				Yes No
						Yes No
			Received for Laboratory by: Tami Stephens	1-23-98	9:45	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

SDG 203C IS COMPLETE. PROCEED WITH ANALYSIS.

Revision No 1

CHRYSLER CORPORATION

Chain-of-Custody

00590 A

3CHRY4/DAYTON

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: DAYTON THERMAL Site Location: DAYTON, OHIO Site Code: SC.001 RFA Number: YGQP9300203-T Chrysler PM: GARY STANCZUK	Consultant: LEGLETTE, BRASHEARS & GRAHAM Address: 1210 WEST COUNTY ROAD E STE 700 ST. PAUL, MN 55112 Consultant PM: KEN VOGEL Phone: 612-490-1405 Fax: 612-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
(10 days)
28 days

Data Package Deliverables: (circle)
(Chrysler Level 1)
Chrysler Level 2
Other (specify):

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify) LAB D.I. H_2O

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC 8260 - 40 ml GLASS - HCL	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
PZ-9D	1/22/98	11:21	G	GW	3	X					HIGHLY CONTAMINATED
PZ-10I	↓	11:33	G	GW	3	X					" "
MWA-2		13:30	G	GW	3	X					" "
PZ-16D		13:45	G	GW	3	X					" "
MWA-4	↓	14:27	G	GW	3	X					" "
TRIP BLANK				O	1	X					

Lab Use Only

Sampler(s)	Bottles Relinquished under Airbill No. 4314770-810			Samples Relinquished under Airbill No. 3930051101			Temperature (corrected) ___ C
CHRIS HOFFMAN MARK HEMSTREET	Relinquished by: Mark P. Hemstreet	Date: 1/22/98	Time: 16:30	Received by:	Date:	Time:	Custody Seal Intact? Yes No
DAVE STRAND Cooler ID # D50	Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Is RFA sampling complete? Yes (No)	Relinquished by:	Date:	Time:	Received for Laboratory by: Lami Stephens	Date: 1-23-98	Time: 9:45	Custody Seal Intact? (Yes) No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

SDG 203C IS COMPLETE. PROCEED WITH ANALYSIS.

Revision No 1

EPA Region 5 Records Ctr.
350061

Quanterra Incorporated
4101 Shuffel Drive, NW
North Canton, Ohio 44720

330 497-9396 Telephone
330 497-0772 Fax

Quanterra
Environmental Services

ENTERED IN DATABASE
BY/DATE DVS 2/3/98
CHECKED BY
DATE

ANALYTICAL REPORT

Development/Purge water

PROJECT NO. RFA YGQP9800203-T

DAYTON THERMAL PRODUCTS SC001

Lot #: A8A240109

Cathy Dover

CompuChem Environmental

QUANTERRA INCORPORATED

Jeffrey C. Smith
Project Manager

January 30, 1998

CASE NARRATIVE

The following report contains the analytical results for three water samples submitted to Quanterra-North Canton by Compuchem Environmental from the Dayton Thermal Products SC001 Site, project number RFA YGQP9800203-T. The samples were received January 24, 1998, according to documented sample acceptance procedures, and were analyzed in accordance with Ohio Voluntary Action Program protocols (Lab Certification CL0024).

Quanterra-North Canton utilizes only USEPA approved methods and instrumentation in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Cathy Dover on January 26 and 29, 1998.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

Samples were received at the laboratory at a temperature of 1.5° C.

ANALYTICAL METHODS SUMMARY

A8A240109

PARAMETER	ANALYTICAL METHOD
Volatile Organics by GC/MS	SW846 8260A

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A8A240109

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CF337	001	DEVELOPMENT WATER	01/23/98	09:00
CF338	002	PURGE WATER	01/23/98	09:10
CF33A	003	TRIP BLANK	01/23/98	00:00

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: DEVELOPMENT WATER

GC/MS Volatiles

Lot-Sample #...: A8A240109-001 **Work Order #...:** CF337101 **Matrix.....:** WATER
Date Sampled...: 01/23/98 09:00 **Date Received..:** 01/24/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**3.2**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	**1.8**	**1.0**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PURGE WATER

GC/MS Volatiles

Lot-Sample #...: A8A240109-002 **Work Order #...:** CF338101 **Matrix.....:** WATER
Date Sampled...: 01/23/98 09:10 **Date Received..:** 01/24/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	98	(90 - 112)
Bromofluorobenzene	94	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A8A240109-003 **Work Order #...:** CF33A101 **Matrix.....:** WATER
Date Sampled...: 01/23/98 00:00 **Date Received..:** 01/24/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	97	(87 - 114)

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

Quanterra® Incorporated conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. Quanterra requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). Failure of the RPDs to fall within the laboratory-generated acceptance windows requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the MS/MSD RPDs are within acceptance criteria, the batch is acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

** for analyses run on TJA Trace ICP or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (continued)

METHOD BLANK (continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. When these values fail to meet acceptance criteria, the data is reviewed to determine the cause. If, in the analyst's judgment, sample matrix effects are indicated, no corrective action is performed. Otherwise, the MS/MSD and the environmental sample used to prepare them are reprepared and reanalyzed.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

The acceptance criteria do not apply to samples that are diluted. If the dilution is more than 5X, the recoveries will be reported as diluted out. All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed.

If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch may be acceptable based on the analyst's judgment that sample matrix effects are indicated.

For the GC/MS BNA methods, the surrogate criteria is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, TPH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A8A240109 **Work Order #...:** CF3HN102 **Matrix.....:** WATER
LCS Lot-Sample#: A8A260000-197
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	94	(87 - 113)	SW846 8260A
Trichloroethene	95	(89 - 115)	SW846 8260A
Chlorobenzene	100	(89 - 119)	SW846 8260A
Toluene	100	(81 - 117)	SW846 8260A
Benzene	97	(77 - 126)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(69 - 127)
Toluene-d8	102	(90 - 112)
Bromofluorobenzene	102	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A240109 **Work Order #...:** CF3HN101 **Matrix.....:** WATER
MB Lot-Sample #: A8A260000-197

Prep Date.....: 01/26/98
Analysis Date..: 01/26/98 **Prep Batch #...:** 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	100	(90 - 112)
Bromofluorobenzene	99	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A8A240109 **Work Order #...:** CF19R107-MS **Matrix.....:** WATER
MS Lot-Sample #: A8A210132-002 CF19R108-MSD
Date Sampled...: 01/20/98 13:00 **Date Received..:** 01/21/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 16.66

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	91	(75 - 113)			SW846 8260A
	92	(75 - 113)	1.3	(0-20)	SW846 8260A
Trichloroethene	101	(71 - 110)			SW846 8260A
	100	(71 - 110)	1.1	(0-22)	SW846 8260A
Chlorobenzene	100	(81 - 115)			SW846 8260A
	98	(81 - 115)	2.7	(0-18)	SW846 8260A
Toluene	98	(78 - 126)			SW846 8260A
	92	(78 - 126)	4.7	(0-24)	SW846 8260A
Benzene	99	(78 - 117)			SW846 8260A
	97	(78 - 117)	1.9	(0-17)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(87 - 114)
	93	(87 - 114)
1,2-Dichloroethane-d4	105	(69 - 127)
	105	(69 - 127)
Toluene-d8	96	(90 - 112)
	95	(90 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

CHRYSLER CORPORATION

Chain-of-Custody

00591 A

3CHRY4/DAYTON

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: DAYTON THERMAL PRODUCTS Site Location: DAYTON, OHIO Site Code: SC001 RFA Number: YGQD9800203-T Chrysler PM: GARY STANCZUK	Consultant: LEGETTE, BRASHEARS & GRAHAM Address: 1210 WEST COUNTY ROAD E STE 700 ST. PAUL, MN 55112 Consultant PM: KEN VOGEL Phone: 612-490-1405 Fax: 612-490-1405

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
(10 days)
28 days

Data Package Deliverables: (circle)
(Chrysler Level 1)
Chrysler Level 2
Other (specify):

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC 8260 - 40 ml Glass - HCL									Volatiles pH < 2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
DEVELOPMENT WATER	1/23/98	09:00	C	GW	3	X													24 hr TURN-AROUND
PURGE WATER	1/23/98	09:10	G	GW	3	X													24 hr TURN-AROUND
TRIP BLANK					1	X													

Lab Use Only

Sampler(s)	Bottles Relinquished under Airbill No. 4314770-810			Samples Relinquished under Airbill No. 3930051112			Temperature (corrected) ___ C
MARK HEMSTREET DAVE STRAND	Relinquished by: Mark P. Hemstreet	Date: 1/23/98	Time: 10:50	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Cooler ID # 021934	Relinquished by:	Date:	Time:	Received by: Kathy Graves	Date: 980124	Time: 930A	Custody Seal Intact? (Yes) No temp 1.5°C
Is RFA sampling complete? (Yes) No	Relinquished by:	Date:	Time:	Received for Laboratory by:	Date:	Time:	Custody Seal Intact? Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

ALL SAMPLING IS COMPLETE.

Revision No. 1
Created September 23, 1997

Quanterra Incorporated
4101 Shuffel Drive, NW
North Canton, Ohio 44720

330 497-9396 Telephone
330 497-0772 Fax

Quanterra
Environmental Services

ENTERED IN DATABASE
BY DVS 4/3/98
CHECKED BY
DATE

ANALYTICAL REPORT

Development/Purge Water

PROJECT NO. RFA YGQP9800203-T

DAYTON THERMAL PRODUCTS SC001

Lot #: A8A240109

Cathy Dover

CompuChem Environmental

QUANTERRA INCORPORATED

Jeffrey C. Smith
Project Manager

January 30, 1998

CASE NARRATIVE

The following report contains the analytical results for three water samples submitted to Quanterra-North Canton by Compuchem Environmental from the Dayton Thermal Products SC001 Site, project number RFA YGQP9800203-T. The samples were received January 24, 1998, according to documented sample acceptance procedures, and were analyzed in accordance with Ohio Voluntary Action Program protocols (Lab Certification CL0024).

Quanterra-North Canton utilizes only USEPA approved methods and instrumentation in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Cathy Dover on January 26 and 29, 1998.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

Samples were received at the laboratory at a temperature of 1.5° C.

ANALYTICAL METHODS SUMMARY

A8A240109

PARAMETER	ANALYTICAL METHOD
Volatile Organics by GC/MS	SW846 8260A

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A8A240109

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CF337	001	DEVELOPMENT WATER	01/23/98	09:00
CF338	002	PURGE WATER	01/23/98	09:10
CF33A	003	TRIP BLANK	01/23/98	00:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: DEVELOPMENT WATER

GC/MS Volatiles

Lot-Sample #...: A8A240109-001 **Work Order #...:** CF337101 **Matrix.....:** WATER
Date Sampled...: 01/23/98 09:00 **Date Received..:** 01/24/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**3.2**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	**1.8**	**1.0**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PURGE WATER

GC/MS Volatiles

Lot-Sample #...: A8A240109-002 **Work Order #...:** CF338101 **Matrix.....:** WATER
Date Sampled...: 01/23/98 09:10 **Date Received..:** 01/24/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	98	(90 - 112)
Bromofluorobenzene	94	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A8A240109-003 **Work Order #...:** CF33A101 **Matrix.....:** WATER
Date Sampled...: 01/23/98 00:00 **Date Received..:** 01/24/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	97	(87 - 114)

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

Quanterra® Incorporated conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. Quanterra requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). Failure of the RPDs to fall within the laboratory-generated acceptance windows requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the MS/MSD RPDs are within acceptance criteria, the batch is acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

* *for analyses run on TJA Trace ICP or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (continued)

METHOD BLANK (continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. When these values fail to meet acceptance criteria, the data is reviewed to determine the cause. If, in the analyst's judgment, sample matrix effects are indicated, no corrective action is performed. Otherwise, the MS/MSD and the environmental sample used to prepare them are reprepared and reanalyzed.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

The acceptance criteria do not apply to samples that are diluted. If the dilution is more than 5X, the recoveries will be reported as diluted out. All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed.

If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch may be acceptable based on the analyst's judgment that sample matrix effects are indicated.

For the GC/MS BNA methods, the surrogate criteria is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, TPH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A8A240109 **Work Order #...:** CF3HN102 **Matrix.....:** WATER
LCS Lot-Sample#: A8A260000-197
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	94	(87 - 113)	SW846 8260A
Trichloroethene	95	(89 - 115)	SW846 8260A
Chlorobenzene	100	(89 - 119)	SW846 8260A
Toluene	100	(81 - 117)	SW846 8260A
Benzene	97	(77 - 126)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(69 - 127)
Toluene-d8	102	(90 - 112)
Bromofluorobenzene	102	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A240109 **Work Order #...:** CF3HN101 **Matrix.....:** WATER
MB Lot-Sample #: A8A260000-197

Prep Date.....: 01/26/98
Analysis Date..: 01/26/98 **Prep Batch #...:** 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	100	(90 - 112)
Bromofluorobenzene	99	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A8A240109 **Work Order #...:** CF19R107-MS **Matrix.....:** WATER
MS Lot-Sample #: A8A210132-002 CF19R108-MSD
Date Sampled...: 01/20/98 13:00 **Date Received..:** 01/21/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 16.66

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	91	(75 - 113)			SW846 8260A
	92	(75 - 113)	1.3	(0-20)	SW846 8260A
Trichloroethene	101	(71 - 110)			SW846 8260A
	100	(71 - 110)	1.1	(0-22)	SW846 8260A
Chlorobenzene	100	(81 - 115)			SW846 8260A
	98	(81 - 115)	2.7	(0-18)	SW846 8260A
Toluene	98	(78 - 126)			SW846 8260A
	92	(78 - 126)	4.7	(0-24)	SW846 8260A
Benzene	99	(78 - 117)			SW846 8260A
	97	(78 - 117)	1.9	(0-17)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(87 - 114)
	93	(87 - 114)
1,2-Dichloroethane-d4	105	(69 - 127)
	105	(69 - 127)
Toluene-d8	96	(90 - 112)
	95	(90 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

CHRYSLER CORPORATION

Chain-of-Custody

00591 A

3CHRY4/DAYTON

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: DAYTON THERMAL PRODUCTS Site Location: DAYTON, OHIO Site Code: SC001 RFA Number: YGRP9800203-T Chrysler PM: GARY STANCZUK	Consultant: LEGETTE, BRASHEARS & GRAHAM Address: 1210 WEST COUNTY ROAD E STE 700 ST. PAUL, MN 55112 Consultant PM: KEN VOGEL Phone: 612-490-1405 Fax: 612-490-1405

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC 8260 - 40 ml 7/4.55 - HCL	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
DEVELOPMENT WATER	1/23/98	09:00	C	GW	3	X					24 hr TURN-AROUND
PURGE WATER	1/23/98	09:10	G	GW	3	X					24 hr TURN-AROUND
TRIP BLANK					1	X					

Sampler(s)
MARK HEMSTREET
DAVE STRAND

Cooler ID # 021934

Is RFA sampling complete? Yes No

Bottles Relinquished under Airbill No. 4314770-810

Samples Relinquished under Airbill No. 3930051112

Temperature (corrected) ___ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Mark P. Hemstreet	1/23/98	10:50				Yes No
			Kathryn Graves	980124	930A	Yes No TEMP 1.5°C
			Received for Laboratory by:			

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

ALL SAMPLING IS COMPLETE.

Revision No. 1
Created: September 23, 1997

Sparged development & purge water

RFA-98-203
SDG 2030

COMPUCHEM
a division of Liberty Analytical Corp.

URGENT!

FAX COVER SHEET

Date: 1/30/98

To: Dave Strand
LBG

Fax: 612-490-1006

From: Diane Ellmore

Phone: 919.379.4011

Fax: 919.379.4040

RE: 24 hour VOCs

Number of pages including cover sheet 5

Message:

Dave - I have had a copy from quanterra faxed to me and this is a copy of it. I am investigating why this error occurred.

Diane

Quanterra
Environmental Services

Date: 01/29/98
Time: 20:32:24
(Mountain Time)

From: Jeff Smith
Quanterra Inc.
4101 Shuffel Drive NW
North Canton, OH 44720

voice: 330-497-9396
fax: 330-497-0772

To: Cathy Dover
CompuChem Environmental

919-3794050

Number of Pages
Including Cover Sheet: 04

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Quote Number :21677
Project Number :RFA YGQP9800203-T
Project Name/Site :DAYTON THERMAL PRODUCTS SC001

This is an automated feature provided by Quanterra Environmental Services.

QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

CompuChem Environmental
DAYTON THERMAL PRODUCTS SC001
Project Number: RFA YGQP9800203-T

Lot #: A8A240109 Date Reported: 1/29/98

Client Sample ID: DEVELOPMENT WATER
Sample #: 001 Date Sampled: 01/23/98 09:00 Date Received: 01/24/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A	
Bromomethane	ND	2.0	ug/L	SW846 8260A	
Vinyl chloride	ND	1.0	ug/L	SW846 8260A	
Chloroethane	ND	2.0	ug/L	SW846 8260A	
Methylene chloride	ND	1.0	ug/L	SW846 8260A	
Acetone	ND	10	ug/L	SW846 8260A	
Carbon disulfide	ND	1.0	ug/L	SW846 8260A	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A	
Chloroform	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A	
2-Butanone	ND	10	ug/L	SW846 8260A	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A	
Trichloroethene	3.2	1.0	ug/L	SW846 8260A	
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A	
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A	
Benzene	ND	1.0	ug/L	SW846 8260A	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A	
Bromoform	ND	1.0	ug/L	SW846 8260A	
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A	
2-Hexanone	ND	10	ug/L	SW846 8260A	
Tetrachloroethene	1.8	1.0	ug/L	SW846 8260A	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A	
Toluene	ND	1.0	ug/L	SW846 8260A	
Chlorobenzene	ND	1.0	ug/L	SW846 8260A	
Ethylbenzene	ND	1.0	ug/L	SW846 8260A	
Styrene	ND	1.0	ug/L	SW846 8260A	
Xylenes (total)	ND	1.0	ug/L	SW846 8260A	

(Continued on next page)

QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

CompuChem Environmental

Lot #: A8A240109 DAYTON THERMAL PRODUCTS SC001 Date Reported: 1/29/98

Project Number: RFA YGQP9800203-T

Client Sample ID: PURGE WATER

Sample #: 002 Date Sampled: 01/23/98 09:10 Date Received: 01/24/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					Reviewed
Acetone	ND	10	ug/L	SW846 8260A	
Carbon disulfide	ND	1.0	ug/L	SW846 8260A	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A	
Chloroform	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A	
2-Butanone	ND	10	ug/L	SW846 8260A	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A	
Trichloroethene	ND	1.0	ug/L	SW846 8260A	
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A	
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A	
Benzene	ND	1.0	ug/L	SW846 8260A	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A	
Bromoform	ND	1.0	ug/L	SW846 8260A	
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A	
2-Hexanone	ND	10	ug/L	SW846 8260A	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A	
Toluene	ND	1.0	ug/L	SW846 8260A	
Chlorobenzene	ND	1.0	ug/L	SW846 8260A	
Ethylbenzene	ND	1.0	ug/L	SW846 8260A	
Styrene	ND	1.0	ug/L	SW846 8260A	
Xylenes (total)	ND	1.0	ug/L	SW846 8260A	
Chloromethane	ND	2.0	ug/L	SW846 8260A	
Bromomethane	ND	2.0	ug/L	SW846 8260A	
Vinyl chloride	ND	1.0	ug/L	SW846 8260A	
Chloroethane	ND	2.0	ug/L	SW846 8260A	
Methylene chloride	ND	1.0	ug/L	SW846 8260A	

(Continued on next page)

QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

CompuChem Environmental
DAYTON THERMAL PRODUCTS SC001
Project Number: RFA YGQP9800203-T

Lot #: A8A240109

Date Reported: 1/29/98

Client Sample ID: TRIP BLANK
Sample #: 003 Date Sampled: 01/23/98 09:10 Date Received: 01/24/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	Reviewed
Volatile Organics by GC/MS					
Chloromethane	ND	2.0	ug/L	SW846 8260A	
Bromomethane	ND	2.0	ug/L	SW846 8260A	
Vinyl chloride	ND	1.0	ug/L	SW846 8260A	
Chloroethane	ND	2.0	ug/L	SW846 8260A	
Methylene chloride	ND	1.0	ug/L	SW846 8260A	
Acetone	ND	10	ug/L	SW846 8260A	
Carbon disulfide	ND	1.0	ug/L	SW846 8260A	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A	
Chloroform	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A	
2-Butanone	ND	10	ug/L	SW846 8260A	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A	
Trichloroethene	ND	1.0	ug/L	SW846 8260A	
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A	
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A	
Benzene	ND	1.0	ug/L	SW846 8260A	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A	
Bromoform	ND	1.0	ug/L	SW846 8260A	
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A	
2-Hexanone	ND	10	ug/L	SW846 8260A	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A	
Toluene	ND	1.0	ug/L	SW846 8260A	
Chlorobenzene	ND	1.0	ug/L	SW846 8260A	
Ethylbenzene	ND	1.0	ug/L	SW846 8260A	
Styrene	ND	1.0	ug/L	SW846 8260A	
Xylenes (total)	ND	1.0	ug/L	SW846 8260A	

EPA Region 5 Records Ctr.
350062

ENTERED IN DATABASE
UNDER RC 3-16-98
CHECKED BY DVS
DATE 3/18/98

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWB-1

GC/MS Volatiles

Lot-Sample #...: A8A230102-001 **Work Order #...:** CF2A5101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 10:55 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8027126
Dilution Factor: 1

RFA 98-
3 Chrzy/dayton
WQ 1/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 826
Bromomethane	ND	2.0	ug/L	SW846 826
Vinyl chloride	ND	1.0	ug/L	SW846 826
Chloroethane	ND	2.0	ug/L	SW846 826
Methylene chloride	ND	1.0	ug/L	SW846 826
Acetone	**190**	**10**	**ug/L**	**SW846 8260A**
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	**31**	**10**	**ug/L**	**SW846 8260A**
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	102	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWC-1

GC/MS Volatiles

Lot-Sample #...: A8A230102-002 **Work Order #...:** CF2AF101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 11:10 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8027126
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	**49**	**10**	**ug/L**	**SW846 8260A**
Carbon disulfide	**1.2**	**1.0**	**ug/L**	**SW846 8260A**
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	104	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-22I

GC/MS Volatiles

Lot-Sample #...: A8A230102-003 **Work Order #...:** CF2AH101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 13:15 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8027126
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**17**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**1.0**	**0.50**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	94	(90 - 112)
Bromofluorobenzene	103	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWB-4

GC/MS Volatiles

Lot-Sample #...: A8A230102-004 **Work Order #...:** CF2AJ101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 14:10 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8027126
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**6.2**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	94	(90 - 112)
Bromofluorobenzene	103	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-21I

GC/MS Volatiles

Lot-Sample #...: A8A230102-005 **Work Order #...:** CF2AK101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 14:15 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**7.5**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**3.1**	**0.50**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	98	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MW-19S

GC/MS Volatiles

Lot-Sample #...: A8A230102-006 **Work Order #...:** CF2AL101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 14:50 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(69 - 127)
Toluene-d8	101	(90 - 112)
Bromofluorobenzene	98	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-19I

GC/MS Volatiles

Lot-Sample #...: A8A230102-007 **Work Order #...:** CF2AM101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 15:27 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**3.7**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**5.0**	**0.50**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	**0.55**	**0.50**	**ug/L**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(69 - 127)
Toluene-d8	98	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MW-20S

GC/MS Volatiles

Lot-Sample #...: A8A230102-008 **Work Order #...:** CF2AN101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 16:10 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	**2.2**	**1.0**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**5.6**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	96	(90 - 112)
Bromofluorobenzene	95	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-20D

GC/MS Volatiles

Lot-Sample #...: A8A230102-009 **Work Order #...:** CF2AP101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 16:15 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**1.8**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	114	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	95	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWC-2

GC/MS Volatiles

Lot-Sample #...: A8A230102-010 **Work Order #...:** CF2AQ101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 17:15 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	**6.7**	**1.0**	**ug/L**	**SW846 8260A**
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-19IDUP

GC/MS Volatiles

Lot-Sample #...: A8A230102-011 **Work Order #...:** CF2AR101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 15:27 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**3.4**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**4.6**	**0.50**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	**0.52**	**0.50**	**ug/L**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(69 - 127)
Toluene-d8	96	(90 - 112)
Bromofluorobenzene	95	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWB-2

GC/MS Volatiles

Lot-Sample #...: A8A230102-012 **Work Order #...:** CF2AT101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 17:39 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	**1.1**	**1.0**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	***0.58***	***0.50***	***ug/L***	***SW846 8260A***
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	97	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MW-18S

GC/MS Volatiles

Lot-Sample #...: A8A230102-013 **Work Order #...:** CF2AV101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 17:55 **Date Received..:** 01/22/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8028118
Dilution Factor: 33.33

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	67	ug/L	SW846 8260A
Bromomethane	ND	67	ug/L	SW846 8260A
Vinyl chloride	ND	33	ug/L	SW846 8260A
Chloroethane	ND	67	ug/L	SW846 8260A
Methylene chloride	ND	33	ug/L	SW846 8260A
Acetone	ND	330	ug/L	SW846 8260A
Carbon disulfide	ND	33	ug/L	SW846 8260A
1,1-Dichloroethene	ND	33	ug/L	SW846 8260A
1,1-Dichloroethane	ND	33	ug/L	SW846 8260A
Chloroform	ND	33	ug/L	SW846 8260A
1,2-Dichloroethane	ND	33	ug/L	SW846 8260A
2-Butanone	ND	330	ug/L	SW846 8260A
1,1,1-Trichloroethane	**160**	**33**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	33	ug/L	SW846 8260A
Bromodichloromethane	ND	33	ug/L	SW846 8260A
1,2-Dichloropropane	ND	33	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	33	ug/L	SW846 8260A
Trichloroethene	**72**	**33**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	33	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	33	ug/L	SW846 8260A
Benzene	ND	33	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	33	ug/L	SW846 8260A
Bromoform	ND	33	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	330	ug/L	SW846 8260A
2-Hexanone	ND	330	ug/L	SW846 8260A
Tetrachloroethene	**700**	**33**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	33	ug/L	SW846 8260A
Toluene	ND	33	ug/L	SW846 8260A
Chlorobenzene	ND	33	ug/L	SW846 8260A
Ethylbenzene	ND	33	ug/L	SW846 8260A
Styrene	ND	33	ug/L	SW846 8260A
Xylenes (total)	ND	33	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**140**	**17**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	17	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(69 - 127)
Toluene-d8	94	(90 - 112)
Bromofluorobenzene	105	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A8A230102-014 **Work Order #...:** CF2AW101 **Matrix.....:** WATER
Date Sampled...: 01/20/98 00:00 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	100	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230102 **Work Order #...:** CF3HN101 **Matrix.....:** WATER
MB Lot-Sample #: A8A260000-197

Prep Date.....: 01/26/98
Analysis Date..: 01/26/98 **Prep Batch #...:** 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	100	(90 - 112)
Bromofluorobenzene	99	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230102 **Work Order #...:** CF3N9101 **Matrix.....:** WATER
MB Lot-Sample #: A8A270000-126

Prep Date.....: 01/26/98
Analysis Date..: 01/26/98 **Prep Batch #...:** 8027126
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(69 - 127)
Toluene-d8	96	(90 - 112)
Bromofluorobenzene	106	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230102 **Work Order #...:** CF457101 **Matrix.....:** WATER
MB Lot-Sample #: A8A280000-118

Prep Date.....: 01/27/98
Analysis Date..: 01/27/98 **Prep Batch #...:** 8028118
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	107	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

COMPUCHEM ENVIRONMENTAL

RC 3-16-98
DRS
3/18/98

Client Sample ID: MWB-5

GC/MS Volatiles

Lot-Sample #...: A8A230105-001 **Work Order #...:** CF2CG101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 09:20 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

RFA 98-203

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**8.5**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**1.1**	**0.50**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	98	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MW-7S

GC/MS Volatiles

Lot-Sample #...: A8A230105-002 **Work Order #...:** CF2CJ101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 09:40 **Date Received..:** 01/22/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8027198
Dilution Factor: 2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	4.0	ug/L	SW846 8260A
Bromomethane	ND	4.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	4.0	ug/L	SW846 8260A
Methylene chloride	ND	2.0	ug/L	SW846 8260A
Acetone	ND	20	ug/L	SW846 8260A
Carbon disulfide	ND	2.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	2.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	2.0	ug/L	SW846 8260A
Chloroform	ND	2.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	2.0	ug/L	SW846 8260A
2-Butanone	ND	20	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	2.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	2.0	ug/L	SW846 8260A
Bromodichloromethane	ND	2.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	2.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	2.0	ug/L	SW846 8260A
Trichloroethene	**70**	**2.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	2.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	2.0	ug/L	SW846 8260A
Benzene	ND	2.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	2.0	ug/L	SW846 8260A
Bromoform	ND	2.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/L	SW846 8260A
2-Hexanone	ND	20	ug/L	SW846 8260A
Tetrachloroethene	ND	2.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	SW846 8260A
Toluene	ND	2.0	ug/L	SW846 8260A
Chlorobenzene	ND	2.0	ug/L	SW846 8260A
Ethylbenzene	ND	2.0	ug/L	SW846 8260A
Styrene	ND	2.0	ug/L	SW846 8260A
Xylenes (total)	ND	2.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**2.2**	**1.0**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	102	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-7I

GC/MS Volatiles

Lot-Sample #...: A8A230105-003 **Work Order #...:** CF2CK101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 10:00 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**1.8**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichlorcethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	**1.2**	**1.0**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**4.3**	**0.50**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MW-15S

GC/MS Volatiles

Lot-Sample #...: A8A230105-004 **Work Order #...:** CF2CL101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 10:45 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8027126
Dilution Factor: 5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/L	SW846 8260A
Bromomethane	ND	10	ug/L	SW846 8260A
Vinyl chloride	ND	5.0	ug/L	SW846 8260A
Chloroethane	ND	10	ug/L	SW846 8260A
Methylene chloride	ND	5.0	ug/L	SW846 8260A
Acetone	ND	50	ug/L	SW846 8260A
Carbon disulfide	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8260A
Chloroform	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260A
2-Butanone	ND	50	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260A
Bromodichloromethane	ND	5.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Trichloroethene	ND	5.0	ug/L	SW846 8260A
Dibromochloromethane	ND	5.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Benzene	ND	5.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Bromoform	ND	5.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260A
2-Hexanone	ND	50	ug/L	SW846 8260A
Tetrachloroethene	**120**	**5.0**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260A
Toluene	ND	5.0	ug/L	SW846 8260A
Chlorobenzene	ND	5.0	ug/L	SW846 8260A
Ethylbenzene	ND	5.0	ug/L	SW846 8260A
Styrene	ND	5.0	ug/L	SW846 8260A
Xylenes (total)	ND	5.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	2.5	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	2.5	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	93	(90 - 112)
Bromofluorobenzene	104	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-15I

GC/MS Volatiles

Lot-Sample #...: A8A230105-005 **Work Order #...:** CF2CM101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 10:50 **Date Received..:** 01/22/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8027198
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	**4.9**	**1.0**	**ug/L**	**SW846 8260A**
Chloroform	**1.3**	**1.0**	**ug/L**	**SW846 8260A**
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	**8.5**	**1.0**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**16**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	**33**	**1.0**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**1.9**	**0.50**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	112	(69 - 127)
Toluene-d8	98	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-12D

GC/MS Volatiles

Lot-Sample #...: A8A230105-006 **Work Order #...:** CF2CN101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 11:40 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8027126
Dilution Factor: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	20	ug/L	SW846 8260A
Bromomethane	ND	20	ug/L	SW846 8260A
Vinyl chloride	ND	10	ug/L	SW846 8260A
Chloroethane	ND	20	ug/L	SW846 8260A
Methylene chloride	ND	10	ug/L	SW846 8260A
Acetone	ND	100	ug/L	SW846 8260A
Carbon disulfide	ND	10	ug/L	SW846 8260A
1,1-Dichloroethene	ND	10	ug/L	SW846 8260A
1,1-Dichloroethane	ND	10	ug/L	SW846 8260A
Chloroform	ND	10	ug/L	SW846 8260A
1,2-Dichloroethane	ND	10	ug/L	SW846 8260A
2-Butanone	ND	100	ug/L	SW846 8260A
1,1,1-Trichloroethane	**67**	**10**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	10	ug/L	SW846 8260A
Bromodichloromethane	ND	10	ug/L	SW846 8260A
1,2-Dichloropropane	ND	10	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	10	ug/L	SW846 8260A
Trichloroethene	**270**	**10**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	10	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	10	ug/L	SW846 8260A
Benzene	ND	10	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	10	ug/L	SW846 8260A
Bromoform	ND	10	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	100	ug/L	SW846 8260A
2-Hexanone	ND	100	ug/L	SW846 8260A
Tetrachloroethene	ND	10	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW846 8260A
Toluene	ND	10	ug/L	SW846 8260A
Chlorobenzene	ND	10	ug/L	SW846 8260A
Ethylbenzene	ND	10	ug/L	SW846 8260A
Styrene	ND	10	ug/L	SW846 8260A
Xylenes (total)	ND	10	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**72**	**5.0**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	5.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(69 - 127)
Toluene-d8	92	(90 - 112)
Bromofluorobenzene	103	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWA-6

GC/MS Volatiles

Lot-Sample #...: A8A230105-007 **Work Order #...:** CF2CP101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 11:40 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8027126
Dilution Factor: 50

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	100	ug/L	SW846 8260A
Bromomethane	ND	100	ug/L	SW846 8260A
Vinyl chloride	ND	50	ug/L	SW846 8260A
Chloroethane	ND	100	ug/L	SW846 8260A
Methylene chloride	ND	50	ug/L	SW846 8260A
Acetone	ND	500	ug/L	SW846 8260A
Carbon disulfide	ND	50	ug/L	SW846 8260A
1,1-Dichloroethene	ND	50	ug/L	SW846 8260A
1,1-Dichloroethane	ND	50	ug/L	SW846 8260A
Chloroform	ND	50	ug/L	SW846 8260A
1,2-Dichloroethane	ND	50	ug/L	SW846 8260A
2-Butanone	ND	500	ug/L	SW846 8260A
1,1,1-Trichloroethane	**180**	**50**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	50	ug/L	SW846 8260A
Bromodichloromethane	ND	50	ug/L	SW846 8260A
1,2-Dichloropropane	ND	50	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	50	ug/L	SW846 8260A
Trichloroethene	**1600**	**50**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	50	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	50	ug/L	SW846 8260A
Benzene	ND	50	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	50	ug/L	SW846 8260A
Bromoform	ND	50	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	500	ug/L	SW846 8260A
2-Hexanone	ND	500	ug/L	SW846 8260A
Tetrachloroethene	ND	50	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	50	ug/L	SW846 8260A
Toluene	ND	50	ug/L	SW846 8260A
Chlorobenzene	ND	50	ug/L	SW846 8260A
Ethylbenzene	ND	50	ug/L	SW846 8260A
Styrene	ND	50	ug/L	SW846 8260A
Xylenes (total)	ND	50	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**72**	**25**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	25	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(69 - 127)
Toluene-d8	92	(90 - 112)
Bromofluorobenzene	104	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-12I

GC/MS Volatiles

Lot-Sample #...: A8A230105-008 **Work Order #...:** CF2CQ101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 11:47 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8027126
Dilution Factor: 12.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	25	ug/L	SW846 8260A
Bromomethane	ND	25	ug/L	SW846 8260A
Vinyl chloride	ND	12	ug/L	SW846 8260A
Chloroethane	ND	25	ug/L	SW846 8260A
Methylene chloride	ND	12	ug/L	SW846 8260A
Acetone	ND	120	ug/L	SW846 8260A
Carbon disulfide	ND	12	ug/L	SW846 8260A
1,1-Dichloroethene	ND	12	ug/L	SW846 8260A
1,1-Dichloroethane	ND	12	ug/L	SW846 8260A
Chloroform	ND	12	ug/L	SW846 8260A
1,2-Dichloroethane	ND	12	ug/L	SW846 8260A
2-Butanone	ND	120	ug/L	SW846 8260A
1,1,1-Trichloroethane	**69**	**12**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	12	ug/L	SW846 8260A
Bromodichloromethane	ND	12	ug/L	SW846 8260A
1,2-Dichloropropane	ND	12	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	12	ug/L	SW846 8260A
Trichloroethene	**310**	**12**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	12	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	12	ug/L	SW846 8260A
Benzene	ND	12	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	12	ug/L	SW846 8260A
Bromoform	ND	12	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	120	ug/L	SW846 8260A
2-Hexanone	ND	120	ug/L	SW846 8260A
Tetrachloroethene	ND	12	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	12	ug/L	SW846 8260A
Toluene	ND	12	ug/L	SW846 8260A
Chlorobenzene	ND	12	ug/L	SW846 8260A
Ethylbenzene	ND	12	ug/L	SW846 8260A
Styrene	ND	12	ug/L	SW846 8260A
Xylenes (total)	ND	12	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**200**	**6.2**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	6.2	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(69 - 127)
Toluene-d8	92	(90 - 112)
Bromofluorobenzene	103	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWC-3

GC/MS Volatiles

Lot-Sample #...: A8A230105-009 **Work Order #...:** CF2CR101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 13:30 **Date Received..:** 01/22/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8027198
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	**3.7**	**1.0**	**ug/L**	**SW846 8260A**
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**5.7**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**0.72**	**0.50**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWB-3

GC/MS Volatiles

Lot-Sample #...: A8A230105-010 **Work Order #...:** CF2CT101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 13:35 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8027126
Dilution Factor: 16.66

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	33	ug/L	SW846 8260A
Bromomethane	ND	33	ug/L	SW846 8260A
Vinyl chloride	ND	17	ug/L	SW846 8260A
Chloroethane	ND	33	ug/L	SW846 8260A
Methylene chloride	ND	17	ug/L	SW846 8260A
Acetone	ND	170	ug/L	SW846 8260A
Carbon disulfide	ND	17	ug/L	SW846 8260A
1,1-Dichloroethene	ND	17	ug/L	SW846 8260A
1,1-Dichloroethane	ND	17	ug/L	SW846 8260A
Chloroform	ND	17	ug/L	SW846 8260A
1,2-Dichloroethane	ND	17	ug/L	SW846 8260A
2-Butanone	ND	170	ug/L	SW846 8260A
1,1,1-Trichloroethane	**59**	**17**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	17	ug/L	SW846 8260A
Bromodichloromethane	ND	17	ug/L	SW846 8260A
1,2-Dichloropropane	ND	17	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	17	ug/L	SW846 8260A
Trichloroethene	**380**	**17**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	17	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	17	ug/L	SW846 8260A
Benzene	ND	17	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	17	ug/L	SW846 8260A
Bromoform	ND	17	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	170	ug/L	SW846 8260A
2-Hexanone	ND	170	ug/L	SW846 8260A
Tetrachloroethene	ND	17	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	17	ug/L	SW846 8260A
Toluene	ND	17	ug/L	SW846 8260A
Chlorobenzene	ND	17	ug/L	SW846 8260A
Ethylbenzene	ND	17	ug/L	SW846 8260A
Styrene	ND	17	ug/L	SW846 8260A
Xylenes (total)	ND	17	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**110**	**8.3**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	8.3	ug/L	SW846 8260A

SURROGATE	PERCENT *RECOVERY*	RECOVERY *LIMITS*
1,2-Dichloroethane-d4	112	(69 - 127)
Toluene-d8	92	(90 - 112)
Bromofluorobenzene	104	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MW-11S

GC/MS Volatiles

Lot-Sample #...: A8A230105-011 **Work Order #...:** CF2CW101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 13:45 **Date Received..:** 01/22/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8028118
Dilution Factor: 71.42

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	140	ug/L	SW846 8260A
Bromomethane	ND	140	ug/L	SW846 8260A
Vinyl chloride	ND	71	ug/L	SW846 8260A
Chloroethane	ND	140	ug/L	SW846 8260A
Methylene chloride	ND	71	ug/L	SW846 8260A
Acetone	ND	710	ug/L	SW846 8260A
Carbon disulfide	ND	71	ug/L	SW846 8260A
1,1-Dichloroethene	ND	71	ug/L	SW846 8260A
1,1-Dichloroethane	ND	71	ug/L	SW846 8260A
Chloroform	ND	71	ug/L	SW846 8260A
1,2-Dichloroethane	ND	71	ug/L	SW846 8260A
2-Butanone	ND	710	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	71	ug/L	SW846 8260A
Carbon tetrachloride	ND	71	ug/L	SW846 8260A
Bromodichloromethane	ND	71	ug/L	SW846 8260A
1,2-Dichloropropane	ND	71	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	71	ug/L	SW846 8260A
Trichloroethene	**2200**	**71**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	71	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	71	ug/L	SW846 8260A
Benzene	ND	71	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	71	ug/L	SW846 8260A
Bromoform	ND	71	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	710	ug/L	SW846 8260A
2-Hexanone	ND	710	ug/L	SW846 8260A
Tetrachloroethene	ND	71	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	71	ug/L	SW846 8260A
Toluene	ND	71	ug/L	SW846 8260A
Chlorobenzene	ND	71	ug/L	SW846 8260A
Ethylbenzene	ND	71	ug/L	SW846 8260A
Styrene	ND	71	ug/L	SW846 8260A
Xylenes (total)	ND	71	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**380**	**36**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	36	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	108	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-13I

GC/MS Volatiles

Lot-Sample #...: A8A230105-012 **Work Order #...:** CF2D1101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 14:27 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8027126
Dilution Factor: 50

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	100	ug/L	SW846 8260A
Bromomethane	ND	100	ug/L	SW846 8260A
Vinyl chloride	ND	50	ug/L	SW846 8260A
Chloroethane	ND	100	ug/L	SW846 8260A
Methylene chloride	ND	50	ug/L	SW846 8260A
Acetone	ND	500	ug/L	SW846 8260A
Carbon disulfide	ND	50	ug/L	SW846 8260A
1,1-Dichloroethene	ND	50	ug/L	SW846 8260A
1,1-Dichloroethane	ND	50	ug/L	SW846 8260A
Chloroform	ND	50	ug/L	SW846 8260A
1,2-Dichloroethane	ND	50	ug/L	SW846 8260A
2-Butanone	ND	500	ug/L	SW846 8260A
1,1,1-Trichloroethane	**410**	**50**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	50	ug/L	SW846 8260A
Bromodichloromethane	ND	50	ug/L	SW846 8260A
1,2-Dichloropropane	ND	50	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	50	ug/L	SW846 8260A
Trichloroethene	**1000**	**50**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	50	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	50	ug/L	SW846 8260A
Benzene	ND	50	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	50	ug/L	SW846 8260A
Bromoform	ND	50	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	500	ug/L	SW846 8260A
2-Hexanone	ND	500	ug/L	SW846 8260A
Tetrachloroethene	**770**	**50**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	50	ug/L	SW846 8260A
Toluene	ND	50	ug/L	SW846 8260A
Chlorobenzene	ND	50	ug/L	SW846 8260A
Ethylbenzene	ND	50	ug/L	SW846 8260A
Styrene	ND	50	ug/L	SW846 8260A
Xylenes (total)	ND	50	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**300**	**25**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	25	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	92	(90 - 112)
Bromofluorobenzene	101	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWA-5

GC/MS Volatiles

Lot-Sample #...: A8A230105-013 **Work Order #...:** CF2D2101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 14:30 **Date Received..:** 01/22/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8027126
Dilution Factor: 100

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	200	ug/L	SW846 8260A
Bromomethane	ND	200	ug/L	SW846 8260A
Vinyl chloride	ND	100	ug/L	SW846 8260A
Chloroethane	ND	200	ug/L	SW846 8260A
Methylene chloride	ND	100	ug/L	SW846 8260A
Acetone	ND	1000	ug/L	SW846 8260A
Carbon disulfide	ND	100	ug/L	SW846 8260A
1,1-Dichloroethene	**400**	**100**	**ug/L**	**SW846 8260A**
1,1-Dichloroethane	**130**	**100**	**ug/L**	**SW846 8260A**
Chloroform	ND	100	ug/L	SW846 8260A
1,2-Dichloroethane	ND	100	ug/L	SW846 8260A
2-Butanone	ND	1000	ug/L	SW846 8260A
1,1,1-Trichloroethane	**2900**	**100**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	100	ug/L	SW846 8260A
Bromodichloromethane	ND	100	ug/L	SW846 8260A
1,2-Dichloropropane	ND	100	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	100	ug/L	SW846 8260A
Trichloroethene	**2100**	**100**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	100	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	100	ug/L	SW846 8260A
Benzene	ND	100	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	100	ug/L	SW846 8260A
Bromoform	ND	100	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	1000	ug/L	SW846 8260A
2-Hexanone	ND	1000	ug/L	SW846 8260A
Tetrachloroethene	ND	100	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	100	ug/L	SW846 8260A
Toluene	ND	100	ug/L	SW846 8260A
Chlorobenzene	ND	100	ug/L	SW846 8260A
Ethylbenzene	ND	100	ug/L	SW846 8260A
Styrene	ND	100	ug/L	SW846 8260A
Xylenes (total)	ND	100	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**170**	**50**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(69 - 127)
Toluene-d8	92	(90 - 112)
Bromofluorobenzene	101	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWA-1

GC/MS Volatiles

Lot-Sample #...: A8A230105-014 **Work Order #...:** CF2D3101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 14:55 **Date Received..:** 01/22/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8028118
Dilution Factor: 33.33

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	67	ug/L	SW846 8260A
Bromomethane	ND	67	ug/L	SW846 8260A
Vinyl chloride	ND	33	ug/L	SW846 8260A
Chloroethane	ND	67	ug/L	SW846 8260A
Methylene chloride	ND	33	ug/L	SW846 8260A
Acetone	ND	330	ug/L	SW846 8260A
Carbon disulfide	ND	33	ug/L	SW846 8260A
1,1-Dichloroethene	ND	33	ug/L	SW846 8260A
1,1-Dichloroethane	**66**	**33**	**ug/L**	**SW846 8260A**
Chloroform	ND	33	ug/L	SW846 8260A
1,2-Dichloroethane	ND	33	ug/L	SW846 8260A
2-Butanone	ND	330	ug/L	SW846 8260A
1,1,1-Trichloroethane	**420**	**33**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	33	ug/L	SW846 8260A
Bromodichloromethane	ND	33	ug/L	SW846 8260A
1,2-Dichloropropane	ND	33	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	33	ug/L	SW846 8260A
Trichloroethene	**150**	**33**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	33	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	33	ug/L	SW846 8260A
Benzene	ND	33	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	33	ug/L	SW846 8260A
Bromoform	ND	33	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	330	ug/L	SW846 8260A
2-Hexanone	ND	330	ug/L	SW846 8260A
Tetrachloroethene	**700**	**33**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	33	ug/L	SW846 8260A
Toluene	ND	33	ug/L	SW846 8260A
Chlorobenzene	ND	33	ug/L	SW846 8260A
Ethylbenzene	ND	33	ug/L	SW846 8260A
Styrene	ND	33	ug/L	SW846 8260A
Xylenes (total)	ND	33	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**130**	**17**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	17	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	94	(90 - 112)
Bromofluorobenzene	103	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-17I

GC/MS Volatiles

Lot-Sample #...: A8A230105-015 **Work Order #...:** CF2D4101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 15:41 **Date Received..:** 01/22/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8027198
Dilution Factor: 71.42

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	140	ug/L	SW846 8260A
Bromomethane	ND	140	ug/L	SW846 8260A
Vinyl chloride	ND	71	ug/L	SW846 8260A
Chloroethane	ND	140	ug/L	SW846 8260A
Methylene chloride	ND	71	ug/L	SW846 8260A
Acetone	ND	710	ug/L	SW846 8260A
Carbon disulfide	ND	71	ug/L	SW846 8260A
1,1-Dichloroethene	ND	71	ug/L	SW846 8260A
1,1-Dichloroethane	ND	71	ug/L	SW846 8260A
Chloroform	ND	71	ug/L	SW846 8260A
1,2-Dichloroethane	ND	71	ug/L	SW846 8260A
2-Butanone	ND	710	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	71	ug/L	SW846 8260A
Carbon tetrachloride	ND	71	ug/L	SW846 8260A
Bromodichloromethane	ND	71	ug/L	SW846 8260A
1,2-Dichloropropane	ND	71	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	71	ug/L	SW846 8260A
Trichloroethene	ND	71	ug/L	SW846 8260A
Dibromochloromethane	ND	71	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	71	ug/L	SW846 8260A
Benzene	ND	71	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	71	ug/L	SW846 8260A
Bromoform	ND	71	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	710	ug/L	SW846 8260A
2-Hexanone	ND	710	ug/L	SW846 8260A
Tetrachloroethene	**1600**	**71**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	71	ug/L	SW846 8260A
Toluene	ND	71	ug/L	SW846 8260A
Chlorobenzene	ND	71	ug/L	SW846 8260A
Ethylbenzene	ND	71	ug/L	SW846 8260A
Styrene	ND	71	ug/L	SW846 8260A
Xylenes (total)	ND	71	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	36	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	36	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(69 - 127)
Toluene-d8	104	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-17D

GC/MS Volatiles

Lot-Sample #...: A8A230105-016 **Work Order #...:** CF2D8101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 16:24 **Date Received..:** 01/22/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8027198
Dilution Factor: 2.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	5.0	ug/L	SW846 8260A
Bromomethane	ND	5.0	ug/L	SW846 8260A
Vinyl chloride	**10**	**2.5**	**ug/L**	**SW846 8260A**
Chloroethane	ND	5.0	ug/L	SW846 8260A
Methylene chloride	ND	2.5	ug/L	SW846 8260A
Acetone	ND	25	ug/L	SW846 8260A
Carbon disulfide	ND	2.5	ug/L	SW846 8260A
1,1-Dichloroethene	ND	2.5	ug/L	SW846 8260A
1,1-Dichloroethane	**4.5**	**2.5**	**ug/L**	**SW846 8260A**
Chloroform	ND	2.5	ug/L	SW846 8260A
1,2-Dichloroethane	ND	2.5	ug/L	SW846 8260A
2-Butanone	ND	25	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	2.5	ug/L	SW846 8260A
Carbon tetrachloride	ND	2.5	ug/L	SW846 8260A
Bromodichloromethane	ND	2.5	ug/L	SW846 8260A
1,2-Dichloropropane	ND	2.5	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	2.5	ug/L	SW846 8260A
Trichloroethene	**8.0**	**2.5**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	2.5	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	2.5	ug/L	SW846 8260A
Benzene	ND	2.5	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	2.5	ug/L	SW846 8260A
Bromoform	ND	2.5	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	25	ug/L	SW846 8260A
2-Hexanone	ND	25	ug/L	SW846 8260A
Tetrachloroethene	**67**	**2.5**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L	SW846 8260A
Toluene	ND	2.5	ug/L	SW846 8260A
Chlorobenzene	ND	2.5	ug/L	SW846 8260A
Ethylbenzene	ND	2.5	ug/L	SW846 8260A
Styrene	ND	2.5	ug/L	SW846 8260A
Xylenes (total)	ND	2.5	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**3.5**	**1.2**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	1.2	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(69 - 127)
Toluene-d8	103	(90 - 112)
Bromofluorobenzene	100	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: FIELD BLANK

GC/MS Volatiles

Lot-Sample #...: A8A230105-017 **Work Order #...:** CF2DA101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 09:15 **Date Received..:** 01/22/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8027198
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	93	(69 - 127)
Toluene-d8	104	(90 - 112)
Bromofluorobenzene	97	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A8A230105-018 **Work Order #...:** CF2DE101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 00:00 **Date Received..:** 01/22/98
Prep Date.....: 01/28/98 **Analysis Date..:** 01/28/98
Prep Batch #...: 8029121
Dilution Factor: 1.42

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.8	ug/L	SW846 8260A
Bromomethane	ND	2.8	ug/L	SW846 8260A
Vinyl chloride	ND	1.4	ug/L	SW846 8260A
Chloroethane	ND	2.8	ug/L	SW846 8260A
Methylene chloride	ND	1.4	ug/L	SW846 8260A
Acetone	ND	14	ug/L	SW846 8260A
Carbon disulfide	ND	1.4	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.4	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.4	ug/L	SW846 8260A
Chloroform	ND	1.4	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.4	ug/L	SW846 8260A
2-Butanone	ND	14	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.4	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.4	ug/L	SW846 8260A
Bromodichloromethane	ND	1.4	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.4	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.4	ug/L	SW846 8260A
Trichloroethene	ND	1.4	ug/L	SW846 8260A
Dibromochloromethane	ND	1.4	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.4	ug/L	SW846 8260A
Benzene	ND	1.4	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.4	ug/L	SW846 8260A
Bromoform	ND	1.4	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	14	ug/L	SW846 8260A
2-Hexanone	ND	14	ug/L	SW846 8260A
Tetrachloroethene	ND	1.4	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.4	ug/L	SW846 8260A
Toluene	ND	1.4	ug/L	SW846 8260A
Chlorobenzene	ND	1.4	ug/L	SW846 8260A
Ethylbenzene	ND	1.4	ug/L	SW846 8260A
Styrene	ND	1.4	ug/L	SW846 8260A
Xylenes (total)	ND	1.4	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.71	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.71	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	104	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-13IDUP

GC/MS Volatiles

Lot-Sample #...: A8A230105-019 **Work Order #...:** CF2DG101 **Matrix.....:** WATER
Date Sampled...: 01/21/98 14:27 **Date Received..:** 01/22/98
Prep Date.....: 01/28/98 **Analysis Date..:** 01/28/98
Prep Batch #...: 8029121
Dilution Factor: 31.25

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	62	ug/L	SW846 8260A
Bromomethane	ND	62	ug/L	SW846 8260A
Vinyl chloride	ND	31	ug/L	SW846 8260A
Chloroethane	ND	62	ug/L	SW846 8260A
Methylene chloride	ND	31	ug/L	SW846 8260A
Acetone	ND	310	ug/L	SW846 8260A
Carbon disulfide	ND	31	ug/L	SW846 8260A
1,1-Dichloroethene	**43**	**31**	**ug/L**	**SW846 8260A**
1,1-Dichloroethane	**31**	**31**	**ug/L**	**SW846 8260A**
Chloroform	ND	31	ug/L	SW846 8260A
1,2-Dichloroethane	ND	31	ug/L	SW846 8260A
2-Butanone	ND	310	ug/L	SW846 8260A
1,1,1-Trichloroethane	**400**	**31**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	31	ug/L	SW846 8260A
Bromodichloromethane	ND	31	ug/L	SW846 8260A
1,2-Dichloropropane	ND	31	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	31	ug/L	SW846 8260A
Trichloroethene	**960**	**31**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	31	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	31	ug/L	SW846 8260A
Benzene	ND	31	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	31	ug/L	SW846 8260A
Bromoform	ND	31	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	310	ug/L	SW846 8260A
2-Hexanone	ND	310	ug/L	SW846 8260A
Tetrachloroethene	**710**	**31**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	31	ug/L	SW846 8260A
Toluene	ND	31	ug/L	SW846 8260A
Chlorobenzene	ND	31	ug/L	SW846 8260A
Ethylbenzene	ND	31	ug/L	SW846 8260A
Styrene	ND	31	ug/L	SW846 8260A
Xylenes (total)	ND	31	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**290**	**16**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	16	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(69 - 127)
Toluene-d8	96	(90 - 112)
Bromofluorobenzene	104	(87 - 114)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230105 **Work Order #...:** CF3HN101 **Matrix.....:** WATER
MB Lot-Sample #: A8A260000-197

Prep Date.....: 01/26/98
Analysis Date..: 01/26/98 **Prep Batch #...:** 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	100	(90 - 112)
Bromofluorobenzene	99	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230105 **Work Order #...:** CF3N9101 **Matrix.....:** WATER
MB Lot-Sample #: A8A270000-126

Prep Date.....: 01/26/98
Analysis Date..: 01/26/98 **Prep Batch #...:** 8027126
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(69 - 127)
Toluene-d8	96	(90 - 112)
Bromofluorobenzene	106	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230105 **Work Order #...:** CF3WL101 **Matrix.....:** WATER
MB Lot-Sample #: A8A270000-198

Prep Date.....: 01/27/98
Analysis Date..: 01/27/98 **Prep Batch #...:** 8027198
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(69 - 127)
Toluene-d8	100	(90 - 112)
Bromofluorobenzene	100	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230105 **Work Order #...:** CF4M8101 **Matrix.....:** WATER
MB Lot-Sample #: A8A290000-121

Prep Date.....: 01/28/98
Analysis Date..: 01/28/98 **Prep Batch #...:** 8029121
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(69 - 127)
Toluene-d8	97	(90 - 112)
Bromofluorobenzene	105	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230105 **Work Order #...:** CF457101 **Matrix.....:** WATER
MB Lot-Sample #: A8A280000-118

Prep Date.....: 01/27/98
Analysis Date..: 01/27/98 **Prep Batch #...:** 8028118
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	107	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWA-3

GC/MS Volatiles

Lot-Sample #...: A8A230137-001 **Work Order #...:** CF2LE101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 08:34 **Date Received..:** 01/23/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8027198
Dilution Factor: 55.55

RFA 98-203

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	110	ug/L	SW846 8260A
Bromomethane	ND	110	ug/L	SW846 8260A
Vinyl chloride	ND	56	ug/L	SW846 8260A
Chloroethane	ND	110	ug/L	SW846 8260A
Methylene chloride	ND	56	ug/L	SW846 8260A
Acetone	ND	560	ug/L	SW846 8260A
Carbon disulfide	ND	56	ug/L	SW846 8260A
1,1-Dichloroethene	**94**	**56**	**ug/L**	**SW846 8260A**
1,1-Dichloroethane	**100**	**56**	**ug/L**	**SW846 8260A**
Chloroform	ND	56	ug/L	SW846 8260A
1,2-Dichloroethane	ND	56	ug/L	SW846 8260A
2-Butanone	ND	560	ug/L	SW846 8260A
1,1,1-Trichloroethane	**1500**	**56**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	56	ug/L	SW846 8260A
Bromodichloromethane	ND	56	ug/L	SW846 8260A
1,2-Dichloropropane	ND	56	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	56	ug/L	SW846 8260A
Trichloroethene	**240**	**56**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	56	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	56	ug/L	SW846 8260A
Benzene	ND	56	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	56	ug/L	SW846 8260A
Bromoform	ND	56	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	560	ug/L	SW846 8260A
2-Hexanone	ND	560	ug/L	SW846 8260A
Tetrachloroethene	**1000**	**56**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	56	ug/L	SW846 8260A
Toluene	ND	56	ug/L	SW846 8260A
Chlorobenzene	ND	56	ug/L	SW846 8260A
Ethylbenzene	ND	56	ug/L	SW846 8260A
Styrene	ND	56	ug/L	SW846 8260A
Xylenes (total)	ND	56	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**130**	**28**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	28	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(69 - 127)
Toluene-d8	101	(90 - 112)
Bromofluorobenzene	94	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-14I

GC/MS Volatiles

Lot-Sample #...: A8A230137-002 **Work Order #...:** CF2LN101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 08:44 **Date Received..:** 01/23/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8028118
Dilution Factor: 5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/L	SW846 8260A
Bromomethane	ND	10	ug/L	SW846 8260A
Vinyl chloride	ND	5.0	ug/L	SW846 8260A
Chloroethane	ND	10	ug/L	SW846 8260A
Methylene chloride	ND	5.0	ug/L	SW846 8260A
Acetone	ND	50	ug/L	SW846 8260A
Carbon disulfide	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethane	**13**	**5.0**	**ug/L**	**SW846 8260A**
Chloroform	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260A
2-Butanone	ND	50	ug/L	SW846 8260A
1,1,1-Trichloroethane	**47**	**5.0**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260A
Bromodichloromethane	ND	5.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Trichloroethene	**150**	**5.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	5.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Benzene	ND	5.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Bromoform	ND	5.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260A
2-Hexanone	ND	50	ug/L	SW846 8260A
Tetrachloroethene	**19**	**5.0**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260A
Toluene	ND	5.0	ug/L	SW846 8260A
Chlorobenzene	ND	5.0	ug/L	SW846 8260A
Ethylbenzene	ND	5.0	ug/L	SW846 8260A
Styrene	ND	5.0	ug/L	SW846 8260A
Xylenes (total)	ND	5.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**37**	**2.5**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	2.5	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	105	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-14IDUP

GC/MS Volatiles

Lot-Sample #...: A8A230137-003 **Work Order #...:** CF2LR101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 08:44 **Date Received..:** 01/23/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8028118
Dilution Factor: 5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/L	SW846 8260A
Bromomethane	ND	10	ug/L	SW846 8260A
Vinyl chloride	ND	5.0	ug/L	SW846 8260A
Chloroethane	ND	10	ug/L	SW846 8260A
Methylene chloride	ND	5.0	ug/L	SW846 8260A
Acetone	ND	50	ug/L	SW846 8260A
Carbon disulfide	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethane	**13**	**5.0**	**ug/L**	**SW846 8260A**
Chloroform	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260A
2-Butanone	ND	50	ug/L	SW846 8260A
1,1,1-Trichloroethane	**48**	**5.0**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260A
Bromodichloromethane	ND	5.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Trichloroethene	**150**	**5.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	5.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Benzene	ND	5.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Bromoform	ND	5.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260A
2-Hexanone	ND	50	ug/L	SW846 8260A
Tetrachloroethene	**19**	**5.0**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260A
Toluene	ND	5.0	ug/L	SW846 8260A
Chlorobenzene	ND	5.0	ug/L	SW846 8260A
Ethylbenzene	ND	5.0	ug/L	SW846 8260A
Styrene	ND	5.0	ug/L	SW846 8260A
Xylenes (total)	ND	5.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**38**	**2.5**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	**2.7**	**2.5**	**ug/L**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	105	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWB-6

GC/MS Volatiles

Lot-Sample #...: A8A230137-004 **Work Order #...:** CF2LT101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 09:06 **Date Received..:** 01/23/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8028118
Dilution Factor: 83.33

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	170	ug/L	SW846 8260A
Bromomethane	ND	170	ug/L	SW846 8260A
Vinyl chloride	ND	83	ug/L	SW846 8260A
Chloroethane	ND	170	ug/L	SW846 8260A
Methylene chloride	ND	83	ug/L	SW846 8260A
Acetone	ND	830	ug/L	SW846 8260A
Carbon disulfide	ND	83	ug/L	SW846 8260A
1,1-Dichloroethene	**410**	**83**	**ug/L**	**SW846 8260A**
1,1-Dichloroethane	**760**	**83**	**ug/L**	**SW846 8260A**
Chloroform	ND	83	ug/L	SW846 8260A
1,2-Dichloroethane	ND	83	ug/L	SW846 8260A
2-Butanone	ND	830	ug/L	SW846 8260A
1,1,1-Trichloroethane	**1300**	**83**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	83	ug/L	SW846 8260A
Bromodichloromethane	ND	83	ug/L	SW846 8260A
1,2-Dichloropropane	ND	83	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	83	ug/L	SW846 8260A
Trichloroethene	**1900**	**83**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	83	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	83	ug/L	SW846 8260A
Benzene	ND	83	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	83	ug/L	SW846 8260A
Bromoform	ND	83	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	830	ug/L	SW846 8260A
2-Hexanone	ND	830	ug/L	SW846 8260A
Tetrachloroethene	ND	83	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	83	ug/L	SW846 8260A
Toluene	ND	83	ug/L	SW846 8260A
Chlorobenzene	ND	83	ug/L	SW846 8260A
Ethylbenzene	ND	83	ug/L	SW846 8260A
Styrene	ND	83	ug/L	SW846 8260A
Xylenes (total)	ND	83	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**360**	**42**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	42	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	104	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-8I

GC/MS Volatiles

Lot-Sample #...: A8A230137-005 **Work Order #...:** CF2LV101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 09:57 **Date Received..:** 01/23/98
Prep Date.....: 01/28/98 **Analysis Date..:** 01/28/98
Prep Batch #...: 8029121
Dilution Factor: 500

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	1000	ug/L	SW846 8260A
Bromomethane	ND	1000	ug/L	SW846 8260A
Vinyl chloride	ND	500	ug/L	SW846 8260A
Chloroethane	ND	1000	ug/L	SW846 8260A
Methylene chloride	ND	500	ug/L	SW846 8260A
Acetone	ND	5000	ug/L	SW846 8260A
Carbon disulfide	ND	500	ug/L	SW846 8260A
1,1-Dichloroethene	ND	500	ug/L	SW846 8260A
1,1-Dichloroethane	ND	500	ug/L	SW846 8260A
Chloroform	ND	500	ug/L	SW846 8260A
1,2-Dichloroethane	ND	500	ug/L	SW846 8260A
2-Butanone	ND	5000	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	500	ug/L	SW846 8260A
Carbon tetrachloride	ND	500	ug/L	SW846 8260A
Bromodichloromethane	ND	500	ug/L	SW846 8260A
1,2-Dichloropropane	ND	500	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	500	ug/L	SW846 8260A
Trichloroethene	**4700**	**500**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	500	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	500	ug/L	SW846 8260A
Benzene	ND	500	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	500	ug/L	SW846 8260A
Bromoform	ND	500	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5000	ug/L	SW846 8260A
2-Hexanone	ND	5000	ug/L	SW846 8260A
Tetrachloroethene	**10000**	**500**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	500	ug/L	SW846 8260A
Toluene	ND	500	ug/L	SW846 8260A
Chlorobenzene	ND	500	ug/L	SW846 8260A
Ethylbenzene	ND	500	ug/L	SW846 8260A
Styrene	ND	500	ug/L	SW846 8260A
Xylenes (total)	ND	500	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	250	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	250	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(69 - 127)
Toluene-d8	94	(90 - 112)
Bromofluorobenzene	105	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MW-8S

GC/MS Volatiles

Lot-Sample #...: A8A230137-006 **Work Order #...:** CF2LX101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 10:05 **Date Received..:** 01/23/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8028118
Dilution Factor: 100

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	200	ug/L	SW846 8260A
Bromomethane	ND	200	ug/L	SW846 8260A
Vinyl chloride	ND	100	ug/L	SW846 8260A
Chloroethane	ND	200	ug/L	SW846 8260A
Methylene chloride	ND	100	ug/L	SW846 8260A
Acetone	ND	1000	ug/L	SW846 8260A
Carbon disulfide	ND	100	ug/L	SW846 8260A
1,1-Dichloroethene	ND	100	ug/L	SW846 8260A
1,1-Dichloroethane	ND	100	ug/L	SW846 8260A
Chloroform	ND	100	ug/L	SW846 8260A
1,2-Dichloroethane	ND	100	ug/L	SW846 8260A
2-Butanone	ND	1000	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	100	ug/L	SW846 8260A
Carbon tetrachloride	ND	100	ug/L	SW846 8260A
Bromodichloromethane	ND	100	ug/L	SW846 8260A
1,2-Dichloropropane	ND	100	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	100	ug/L	SW846 8260A
Trichloroethene	**470**	**100**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	100	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	100	ug/L	SW846 8260A
Benzene	ND	100	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	100	ug/L	SW846 8260A
Bromoform	ND	100	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	1000	ug/L	SW846 8260A
2-Hexanone	ND	1000	ug/L	SW846 8260A
Tetrachloroethene	**2200**	**100**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	100	ug/L	SW846 8260A
Toluene	ND	100	ug/L	SW846 8260A
Chlorobenzene	ND	100	ug/L	SW846 8260A
Ethylbenzene	ND	100	ug/L	SW846 8260A
Styrene	ND	100	ug/L	SW846 8260A
Xylenes (total)	ND	100	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(69 - 127)
Toluene-d8	94	(90 - 112)
Bromofluorobenzene	104	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MW-8SDUP

GC/MS Volatiles

Lot-Sample #...: A8A230137-007 **Work Order #...:** CF2M1101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 10:05 **Date Received..:** 01/23/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8028118
Dilution Factor: 100

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	200	ug/L	SW846 8260A
Bromomethane	ND	200	ug/L	SW846 8260A
Vinyl chloride	ND	100	ug/L	SW846 8260A
Chloroethane	ND	200	ug/L	SW846 8260A
Methylene chloride	ND	100	ug/L	SW846 8260A
Acetone	ND	1000	ug/L	SW846 8260A
Carbon disulfide	ND	100	ug/L	SW846 8260A
1,1-Dichloroethene	ND	100	ug/L	SW846 8260A
1,1-Dichloroethane	ND	100	ug/L	SW846 8260A
Chloroform	ND	100	ug/L	SW846 8260A
1,2-Dichloroethane	ND	100	ug/L	SW846 8260A
2-Butanone	ND	1000	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	100	ug/L	SW846 8260A
Carbon tetrachloride	ND	100	ug/L	SW846 8260A
Bromodichloromethane	ND	100	ug/L	SW846 8260A
1,2-Dichloropropane	ND	100	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	100	ug/L	SW846 8260A
Trichloroethene	**450**	**100**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	100	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	100	ug/L	SW846 8260A
Benzene	ND	100	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	100	ug/L	SW846 8260A
Bromoform	ND	100	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	1000	ug/L	SW846 8260A
2-Hexanone	ND	1000	ug/L	SW846 8260A
Tetrachloroethene	**2200**	**100**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	100	ug/L	SW846 8260A
Toluene	ND	100	ug/L	SW846 8260A
Chlorobenzene	ND	100	ug/L	SW846 8260A
Ethylbenzene	ND	100	ug/L	SW846 8260A
Styrene	ND	100	ug/L	SW846 8260A
Xylenes (total)	ND	100	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(69 - 127)
Toluene-d8	94	(90 - 112)
Bromofluorobenzene	106	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: FIELD BLANK

GC/MS Volatiles

Lot-Sample #...: A8A230137-008 **Work Order #...:** CF2M2101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 10:11 **Date Received..:** 01/23/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8027198
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(69 - 127)
Toluene-d8	103	(90 - 112)
Bromofluorobenzene	98	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-8D

GC/MS Volatiles

Lot-Sample #...: A8A230137-009 **Work Order #...:** CF2M3101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 10:20 **Date Received..:** 01/23/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8027198
Dilution Factor: 4.16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	8.3	ug/L	SW846 8260A
Bromomethane	ND	8.3	ug/L	SW846 8260A
Vinyl chloride	ND	4.2	ug/L	SW846 8260A
Chloroethane	ND	8.3	ug/L	SW846 8260A
Methylene chloride	ND	4.2	ug/L	SW846 8260A
Acetone	ND	42	ug/L	SW846 8260A
Carbon disulfide	ND	4.2	ug/L	SW846 8260A
1,1-Dichloroethene	ND	4.2	ug/L	SW846 8260A
1,1-Dichloroethane	ND	4.2	ug/L	SW846 8260A
Chloroform	ND	4.2	ug/L	SW846 8260A
1,2-Dichloroethane	ND	4.2	ug/L	SW846 8260A
2-Butanone	ND	42	ug/L	SW846 8260A
1,1,1-Trichloroethane	**7.2**	**4.2**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	4.2	ug/L	SW846 8260A
Bromodichloromethane	ND	4.2	ug/L	SW846 8260A
1,2-Dichloropropane	ND	4.2	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	4.2	ug/L	SW846 8260A
Trichloroethene	**91**	**4.2**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	4.2	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	4.2	ug/L	SW846 8260A
Benzene	ND	4.2	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	4.2	ug/L	SW846 8260A
Bromoform	ND	4.2	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	42	ug/L	SW846 8260A
2-Hexanone	ND	42	ug/L	SW846 8260A
Tetrachloroethene	**38**	**4.2**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	4.2	ug/L	SW846 8260A
Toluene	ND	4.2	ug/L	SW846 8260A
Chlorobenzene	ND	4.2	ug/L	SW846 8260A
Ethylbenzene	ND	4.2	ug/L	SW846 8260A
Styrene	ND	4.2	ug/L	SW846 8260A
Xylenes (total)	ND	4.2	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**14**	**2.1**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	2.1	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(69 - 127)
Toluene-d8	98	(90 - 112)
Bromofluorobenzene	95	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MW-10S

GC/MS Volatiles

Lot-Sample #...: A8A230137-010 **Work Order #...:** CF2M4101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 11:11 **Date Received..:** 01/23/98
Prep Date.....: 01/28/98 **Analysis Date..:** 01/28/98
Prep Batch #...: 8029121
Dilution Factor: 357.14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	710	ug/L	SW846 8260A
Bromomethane	ND	710	ug/L	SW846 8260A
Vinyl chloride	ND	360	ug/L	SW846 8260A
Chloroethane	ND	710	ug/L	SW846 8260A
Methylene chloride	ND	360	ug/L	SW846 8260A
Acetone	ND	3600	ug/L	SW846 8260A
Carbon disulfide	ND	360	ug/L	SW846 8260A
1,1-Dichloroethene	ND	360	ug/L	SW846 8260A
1,1-Dichloroethane	ND	360	ug/L	SW846 8260A
Chloroform	ND	360	ug/L	SW846 8260A
1,2-Dichloroethane	ND	360	ug/L	SW846 8260A
2-Butanone	ND	3600	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	360	ug/L	SW846 8260A
Carbon tetrachloride	ND	360	ug/L	SW846 8260A
Bromodichloromethane	ND	360	ug/L	SW846 8260A
1,2-Dichloropropane	ND	360	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	360	ug/L	SW846 8260A
Trichloroethene	**12000**	**360**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	360	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	360	ug/L	SW846 8260A
Benzene	ND	360	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	360	ug/L	SW846 8260A
Bromoform	ND	360	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	3600	ug/L	SW846 8260A
2-Hexanone	ND	3600	ug/L	SW846 8260A
Tetrachloroethene	ND	360	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	360	ug/L	SW846 8260A
Toluene	ND	360	ug/L	SW846 8260A
Chlorobenzene	ND	360	ug/L	SW846 8260A
Ethylbenzene	ND	360	ug/L	SW846 8260A
Styrene	ND	360	ug/L	SW846 8260A
Xylenes (total)	ND	360	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**2400**	**180**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	180	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	104	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-9D

GC/MS Volatiles

Lot-Sample #...: A8A230137-011 **Work Order #...:** CF2M5101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 11:21 **Date Received..:** 01/23/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8028118
Dilution Factor: 100

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	200	ug/L	SW846 8260A
Bromomethane	ND	200	ug/L	SW846 8260A
Vinyl chloride	ND	100	ug/L	SW846 8260A
Chloroethane	ND	200	ug/L	SW846 8260A
Methylene chloride	ND	100	ug/L	SW846 8260A
Acetone	ND	1000	ug/L	SW846 8260A
Carbon disulfide	ND	100	ug/L	SW846 8260A
1,1-Dichloroethene	ND	100	ug/L	SW846 8260A
1,1-Dichloroethane	ND	100	ug/L	SW846 8260A
Chloroform	ND	100	ug/L	SW846 8260A
1,2-Dichloroethane	ND	100	ug/L	SW846 8260A
2-Butanone	ND	1000	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	100	ug/L	SW846 8260A
Carbon tetrachloride	ND	100	ug/L	SW846 8260A
Bromodichloromethane	ND	100	ug/L	SW846 8260A
1,2-Dichloropropane	ND	100	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	100	ug/L	SW846 8260A
Trichloroethene	**2800**	**100**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	100	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	100	ug/L	SW846 8260A
Benzene	ND	100	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	100	ug/L	SW846 8260A
Bromoform	ND	100	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	1000	ug/L	SW846 8260A
2-Hexanone	ND	1000	ug/L	SW846 8260A
Tetrachloroethene	ND	100	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	100	ug/L	SW846 8260A
Toluene	ND	100	ug/L	SW846 8260A
Chlorobenzene	ND	100	ug/L	SW846 8260A
Ethylbenzene	ND	100	ug/L	SW846 8260A
Styrene	ND	100	ug/L	SW846 8260A
Xylenes (total)	ND	100	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**210**	**50**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	92	(90 - 112)
Bromofluorobenzene	104	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-10I

GC/MS Volatiles

Lot-Sample #...: A8A230137-012 **Work Order #...:** CF2M7101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 11:33 **Date Received..:** 01/23/98
Prep Date.....: 01/28/98 **Analysis Date..:** 01/28/98
Prep Batch #...: 8029121
Dilution Factor: 250

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	500	ug/L	SW846 8260A
Bromomethane	ND	500	ug/L	SW846 8260A
Vinyl chloride	ND	250	ug/L	SW846 8260A
Chloroethane	ND	500	ug/L	SW846 8260A
Methylene chloride	ND	250	ug/L	SW846 8260A
Acetone	ND	2500	ug/L	SW846 8260A
Carbon disulfide	ND	250	ug/L	SW846 8260A
1,1-Dichloroethene	ND	250	ug/L	SW846 8260A
1,1-Dichloroethane	ND	250	ug/L	SW846 8260A
Chloroform	ND	250	ug/L	SW846 8260A
1,2-Dichloroethane	ND	250	ug/L	SW846 8260A
2-Butanone	ND	2500	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	250	ug/L	SW846 8260A
Carbon tetrachloride	ND	250	ug/L	SW846 8260A
Bromodichloromethane	ND	250	ug/L	SW846 8260A
1,2-Dichloropropane	ND	250	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	250	ug/L	SW846 8260A
Trichloroethene	**7800**	**250**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	250	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	250	ug/L	SW846 8260A
Benzene	ND	250	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	250	ug/L	SW846 8260A
Bromoform	ND	250	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	2500	ug/L	SW846 8260A
2-Hexanone	ND	2500	ug/L	SW846 8260A
Tetrachloroethene	ND	250	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	250	ug/L	SW846 8260A
Toluene	ND	250	ug/L	SW846 8260A
Chlorobenzene	ND	250	ug/L	SW846 8260A
Ethylbenzene	ND	250	ug/L	SW846 8260A
Styrene	ND	250	ug/L	SW846 8260A
Xylenes (total)	ND	250	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**3200**	**120**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	120	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(69 - 127)
Toluene-d8	96	(90 - 112)
Bromofluorobenzene	104	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWA-2

GC/MS Volatiles

Lot-Sample #...: A8A230137-013 **Work Order #...:** CF2M9101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 13:30 **Date Received..:** 01/23/98
Prep Date.....: 01/28/98 **Analysis Date..:** 01/28/98
Prep Batch #...: 8029121
Dilution Factor: 58.82

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	120	ug/L	SW846 8260A
Bromomethane	ND	120	ug/L	SW846 8260A
Vinyl chloride	ND	59	ug/L	SW846 8260A
Chloroethane	ND	120	ug/L	SW846 8260A
Methylene chloride	ND	59	ug/L	SW846 8260A
Acetone	ND	590	ug/L	SW846 8260A
Carbon disulfide	ND	59	ug/L	SW846 8260A
1,1-Dichloroethene	ND	59	ug/L	SW846 8260A
1,1-Dichloroethane	**77**	**59**	**ug/L**	**SW846 8260A**
Chloroform	ND	59	ug/L	SW846 8260A
1,2-Dichloroethane	ND	59	ug/L	SW846 8260A
2-Butanone	ND	590	ug/L	SW846 8260A
1,1,1-Trichloroethane	**1800**	**59**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	59	ug/L	SW846 8260A
Bromodichloromethane	ND	59	ug/L	SW846 8260A
1,2-Dichloropropane	ND	59	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	59	ug/L	SW846 8260A
Trichloroethene	**870**	**59**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	59	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	59	ug/L	SW846 8260A
Benzene	ND	59	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	59	ug/L	SW846 8260A
Bromoform	ND	59	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	590	ug/L	SW846 8260A
2-Hexanone	ND	590	ug/L	SW846 8260A
Tetrachloroethene	**1900**	**59**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	59	ug/L	SW846 8260A
Toluene	ND	59	ug/L	SW846 8260A
Chlorobenzene	ND	59	ug/L	SW846 8260A
Ethylbenzene	ND	59	ug/L	SW846 8260A
Styrene	ND	59	ug/L	SW846 8260A
Xylenes (total)	ND	59	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**780**	**29**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	29	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	94	(90 - 112)
Bromofluorobenzene	105	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PZ-16D

GC/MS Volatiles

Lot-Sample #...: A8A230137-014 **Work Order #...:** CF2MC101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 13:45 **Date Received..:** 01/23/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8028118
Dilution Factor: 83.33

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	170	ug/L	SW846 8260A
Bromomethane	ND	170	ug/L	SW846 8260A
Vinyl chloride	ND	83	ug/L	SW846 8260A
Chloroethane	ND	170	ug/L	SW846 8260A
Methylene chloride	ND	83	ug/L	SW846 8260A
Acetone	ND	830	ug/L	SW846 8260A
Carbon disulfide	ND	83	ug/L	SW846 8260A
1,1-Dichloroethene	ND	83	ug/L	SW846 8260A
1,1-Dichloroethane	**86**	**83**	**ug/L**	**SW846 8260A**
Chloroform	ND	83	ug/L	SW846 8260A
1,2-Dichloroethane	ND	83	ug/L	SW846 8260A
2-Butanone	ND	830	ug/L	SW846 8260A
1,1,1-Trichloroethane	**1900**	**83**	**ug/L**	**SW846 8260A**
Carbon tetrachloride	ND	83	ug/L	SW846 8260A
Bromodichloromethane	ND	83	ug/L	SW846 8260A
1,2-Dichloropropane	ND	83	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	83	ug/L	SW846 8260A
Trichloroethene	**230**	**83**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	83	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	83	ug/L	SW846 8260A
Benzene	ND	83	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	83	ug/L	SW846 8260A
Bromoform	ND	83	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	830	ug/L	SW846 8260A
2-Hexanone	ND	830	ug/L	SW846 8260A
Tetrachloroethene	**97**	**83**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	83	ug/L	SW846 8260A
Toluene	ND	83	ug/L	SW846 8260A
Chlorobenzene	ND	83	ug/L	SW846 8260A
Ethylbenzene	ND	83	ug/L	SW846 8260A
Styrene	ND	83	ug/L	SW846 8260A
Xylenes (total)	ND	83	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**890**	**42**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	42	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(69 - 127)
Toluene-d8	91	(90 - 112)
Bromofluorobenzene	101	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: MWA-4

GC/MS Volatiles

Lot-Sample #...: A8A230137-015 **Work Order #...:** CF2MD101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 14:27 **Date Received..:** 01/23/98
Prep Date.....: 01/28/98 **Analysis Date..:** 01/28/98
Prep Batch #...: 8029121
Dilution Factor: 1666.66

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	3300	ug/L	SW846 8260A
Bromomethane	ND	3300	ug/L	SW846 8260A
Vinyl chloride	**3200**	**1700**	**ug/L**	**SW846 8260A**
Chloroethane	ND	3300	ug/L	SW846 8260A
Methylene chloride	ND	1700	ug/L	SW846 8260A
Acetone	ND	17000	ug/L	SW846 8260A
Carbon disulfide	ND	1700	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1700	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1700	ug/L	SW846 8260A
Chloroform	ND	1700	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1700	ug/L	SW846 8260A
2-Butanone	ND	17000	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1700	ug/L	SW846 8260A
Carbon tetrachloride	ND	1700	ug/L	SW846 8260A
Bromodichloromethane	ND	1700	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1700	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1700	ug/L	SW846 8260A
Trichloroethene	**51000**	**1700**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1700	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1700	ug/L	SW846 8260A
Benzene	ND	1700	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1700	ug/L	SW846 8260A
Bromoform	ND	1700	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	17000	ug/L	SW846 8260A
2-Hexanone	ND	17000	ug/L	SW846 8260A
Tetrachloroethene	ND	1700	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1700	ug/L	SW846 8260A
Toluene	ND	1700	ug/L	SW846 8260A
Chlorobenzene	ND	1700	ug/L	SW846 8260A
Ethylbenzene	ND	1700	ug/L	SW846 8260A
Styrene	ND	1700	ug/L	SW846 8260A
Xylenes (total)	ND	1700	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	**19000**	**830**	**ug/L**	**SW846 8260A**
trans-1,2-Dichloroethylene	ND	830	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(69 - 127)
Toluene-d8	97	(90 - 112)
Bromofluorobenzene	107	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A8A230137-016 **Work Order #...:** CF2MF101 **Matrix.....:** WATER
Date Sampled...: 01/22/98 00:00 **Date Received..:** 01/23/98
Prep Date.....: 01/27/98 **Analysis Date..:** 01/27/98
Prep Batch #...: 8027198
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(69 - 127)
Toluene-d8	101	(90 - 112)
Bromofluorobenzene	97	(87 - 114)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230137 **Work Order #...:** CF3WL101 **Matrix.....:** WATER
MB Lot-Sample #: A8A270000-198

Prep Date.....: 01/27/98
Analysis Date..: 01/27/98 **Prep Batch #...:** 8027198
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(69 - 127)
Toluene-d8	100	(90 - 112)
Bromofluorobenzene	100	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230137 **Work Order #...:** CF4M8101 **Matrix.....:** WATER
MB Lot-Sample #: A8A290000-121

Prep Date.....: 01/28/98
Analysis Date..: 01/28/98 **Prep Batch #...:** 8029121
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(69 - 127)
Toluene-d8	97	(90 - 112)
Bromofluorobenzene	105	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A230137 **Work Order #...:** CF457101 **Matrix.....:** WATER
MB Lot-Sample #: A8A280000-118

Prep Date.....: 01/27/98
Analysis Date..: 01/27/98 **Prep Batch #...:** 8028118
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(69 - 127)
Toluene-d8	95	(90 - 112)
Bromofluorobenzene	107	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NOT ENTERED INTO DATABASE
3-16-98 RC
DVS
DATE 3/18/98

COMPUCHEM ENVIRONMENTAL

Client Sample ID: PURGE WATER

GC/MS Volatiles

Lot-Sample #...: A8A240109-002 **Work Order #...:** CF338101 **Matrix.....:** WATER
Date Sampled...: 01/23/98 09:10 **Date Received..:** 01/24/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

RFA 98-203

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260.
Chloroethane	ND	2.0	ug/L	SW846 8260.
Methylene chloride	ND	1.0	ug/L	SW846 8260.
Acetone	ND	10	ug/L	SW846 8260.
Carbon disulfide	ND	1.0	ug/L	SW846 8260.
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260.
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260.
Chloroform	ND	1.0	ug/L	SW846 8260.
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

Do not include in reports. Only used for water disposal

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(69 - 127)
Toluene-d8	98	(90 - 112)
Bromofluorobenzene	94	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: DEVELOPMENT WATER

GC/MS Volatiles

Lot-Sample #...: A8A240109-001 **Work Order #...:** CF337101 **Matrix.....:** WATER
Date Sampled...: 01/23/98 09:00 **Date Received..:** 01/24/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	**3.2**	**1.0**	**ug/L**	**SW846 8260A**
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	**1.8**	**1.0**	**ug/L**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	96	(87 - 114)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A8A240109-003 **Work Order #...:** CF33A101 **Matrix.....:** WATER
Date Sampled...: 01/23/98 00:00 **Date Received..:** 01/24/98
Prep Date.....: 01/26/98 **Analysis Date..:** 01/26/98
Prep Batch #...: 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(69 - 127)
Toluene-d8	99	(90 - 112)
Bromofluorobenzene	97	(87 - 114)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A8A240109 **Work Order #...:** CF3HN101 **Matrix.....:** WATER
MB Lot-Sample #: A8A260000-197

Prep Date.....: 01/26/98
Analysis Date..: 01/26/98 **Prep Batch #...:** 8026197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
cis-1,2-Dichloroethylene	ND	0.50	ug/L	SW846 8260A
trans-1,2-Dichloroethylen	ND	0.50	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(69 - 127)
Toluene-d8	100	(90 - 112)
Bromofluorobenzene	99	(87 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

EPA Region 5 Records Ctr.
350063

Rec'd Feb 3, 98

Quanterra
Environmental Services

Date: 01/29/98
Time: 20:01:19
(Mountain Time)

From: Jeff Smith
Quanterra Inc.
4101 Shuffel Drive NW
North Canton, OH 44720

voice: 330-497-9396
fax: 330-497-0772

To: Cathy Dover
CompuChem Environmental

919-3794050

ENTERED IN DATABASE
BY/DATE DVS 2/3/98
CHECKED BY KRB
DATE 2/9/98

Number of Pages
Including Cover Sheet: 15

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Quote Number :21677
Project Number :YGQP9800203-T
Project Name/Site :DAYTON THERMAL JAN 98 GW SAMPLING

This is an automated feature provided by Quanterra Environmental Services.

QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: MWB-1
Sample #: 001 Date Sampled: 01/20/98 10:55 Date Received: 01/22/98 Matrix: WATER

Volatile Organics by GC/MS — Reviewed

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	190	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	31	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

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CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: MWC-1
Sample #: 002 Date Sampled: 01/20/98 11:10 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	49	10	ug/L	SW846 8260A
Carbon disulfide	1.2	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

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CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: PZ-22I
Sample #: 003 Date Sampled: 01/20/98 13:15 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	1.0	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	17	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

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CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: MWB-4
Sample #: 004 Date Sampled: 01/20/98 14:10 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A	
Bromomethane	ND	2.0	ug/L	SW846 8260A	
Vinyl chloride	ND	1.0	ug/L	SW846 8260A	
Chloroethane	ND	2.0	ug/L	SW846 8260A	
Methylene chloride	ND	1.0	ug/L	SW846 8260A	
Acetone	ND	10	ug/L	SW846 8260A	
Carbon disulfide	ND	1.0	ug/L	SW846 8260A	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A	
Chloroform	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A	
2-Butanone	ND	10	ug/L	SW846 8260A	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A	
Trichloroethene	6.2	1.0	ug/L	SW846 8260A	
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A	
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A	
Benzene	ND	1.0	ug/L	SW846 8260A	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A	
Bromoform	ND	1.0	ug/L	SW846 8260A	
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A	
2-Hexanone	ND	10	ug/L	SW846 8260A	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A	
Toluene	ND	1.0	ug/L	SW846 8260A	
Chlorobenzene	ND	1.0	ug/L	SW846 8260A	
Ethylbenzene	ND	1.0	ug/L	SW846 8260A	
Styrene	ND	1.0	ug/L	SW846 8260A	
Xylenes (total)	ND	1.0	ug/L	SW846 8260A	

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: PZ-21I
Sample #: 005 Date Sampled: 01/20/98 14:15 Date Received: 01/22/98 Matrix: WATER

Volatile Organics by GC/MS — Reviewed

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	3.4	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	7.5	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

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CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: MW-19S
Sample #: 006 Date Sampled: 01/20/98 14:50 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: PZ-19I
Sample #: 007 Date Sampled: 01/20/98 15:27 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A	
Bromomethane	ND	2.0	ug/L	SW846 8260A	
Vinyl chloride	ND	1.0	ug/L	SW846 8260A	
Chloroethane	ND	2.0	ug/L	SW846 8260A	
Methylene chloride	ND	1.0	ug/L	SW846 8260A	
Acetone	ND	10	ug/L	SW846 8260A	
Carbon disulfide	ND	1.0	ug/L	SW846 8260A	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloroethene (total)	5.6	1.0	ug/L	SW846 8260A	
Chloroform	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A	
2-Butanone	ND	10	ug/L	SW846 8260A	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A	
Trichloroethene	3.7	1.0	ug/L	SW846 8260A	
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A	
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A	
Benzene	ND	1.0	ug/L	SW846 8260A	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A	
Bromoform	ND	1.0	ug/L	SW846 8260A	
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A	
2-Hexanone	ND	10	ug/L	SW846 8260A	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A	
Toluene	ND	1.0	ug/L	SW846 8260A	
Chlorobenzene	ND	1.0	ug/L	SW846 8260A	
Ethylbenzene	ND	1.0	ug/L	SW846 8260A	
Styrene	ND	1.0	ug/L	SW846 8260A	
Xylenes (total)	ND	1.0	ug/L	SW846 8260A	

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: MW-20S
Sample #: 008 Date Sampled: 01/20/98 16:10 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	2.2	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	5.6	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

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CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: PZ-20D
Sample #: 009 Date Sampled: 01/20/98 16:15 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	1.8	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: MWC-2
Sample #: 010 Date Sampled: 01/20/98 17:15 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	6.7	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

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CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8AZ30102 Date Reported: 1/29/98

Client Sample ID: PZ-19IDUP
Sample #: 011 Date Sampled: 01/20/98 15:27 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	5.1	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	3.4	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102

Date Reported: 1/29/98

Client Sample ID: MWB-2
Sample #: 012 Date Sampled: 01/20/98 17:39 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	1.1	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

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QUANTERRA INCORPORATED

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: MW-18S
Sample #: 013 Date Sampled: 01/20/98 17:55 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					Reviewed
Chloromethane	ND	67	ug/L	SW846 8260A	
Bromomethane	ND	67	ug/L	SW846 8260A	
Vinyl chloride	ND	33	ug/L	SW846 8260A	
Chloroethane	ND	67	ug/L	SW846 8260A	
Methylene chloride	ND	33	ug/L	SW846 8260A	
Acetone	ND	330	ug/L	SW846 8260A	
Carbon disulfide	ND	33	ug/L	SW846 8260A	
1,1-Dichloroethene	ND	33	ug/L	SW846 8260A	
1,1-Dichloroethane	ND	33	ug/L	SW846 8260A	
1,2-Dichloroethene (total)	140	33	ug/L	SW846 8260A	
Chloroform	ND	33	ug/L	SW846 8260A	
1,2-Dichloroethane	ND	33	ug/L	SW846 8260A	
2-Butanone	ND	330	ug/L	SW846 8260A	
1,1,1-Trichloroethane	160	33	ug/L	SW846 8260A	
Carbon tetrachloride	ND	33	ug/L	SW846 8260A	
Bromodichloromethane	ND	33	ug/L	SW846 8260A	
1,2-Dichloropropane	ND	33	ug/L	SW846 8260A	
cis-1,3-Dichloropropene	ND	33	ug/L	SW846 8260A	
Trichloroethene	72	33	ug/L	SW846 8260A	
Dibromochloromethane	ND	33	ug/L	SW846 8260A	
1,1,2-Trichloroethane	ND	33	ug/L	SW846 8260A	
Benzene	ND	33	ug/L	SW846 8260A	
trans-1,3-Dichloropropene	ND	33	ug/L	SW846 8260A	
Bromoform	ND	33	ug/L	SW846 8260A	
4-Methyl-2-pentanone	ND	330	ug/L	SW846 8260A	
2-Hexanone	ND	330	ug/L	SW846 8260A	
Tetrachloroethene	700	33	ug/L	SW846 8260A	
1,1,2,2-Tetrachloroethane	ND	33	ug/L	SW846 8260A	
Toluene	ND	33	ug/L	SW846 8260A	
Chlorobenzene	ND	33	ug/L	SW846 8260A	
Ethylbenzene	ND	33	ug/L	SW846 8260A	
Styrene	ND	33	ug/L	SW846 8260A	
Xylenes (total)	ND	33	ug/L	SW846 8260A	

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PRELIMINARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

CompuChem Environmental
DAYTON THERMAL
Project Number: YGQP9800203-T

Lot #: A8A230102 Date Reported: 1/29/98

Client Sample ID: TRIP BLANK
Sample #: 014 Date Sampled: 01/20/98 17:55 Date Received: 01/22/98 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	10	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260A
2-Hexanone	ND	10	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

EPA Region 5 Records Ctr.
350064

Soil Study for Proposed Press Pit Foundations, Chrysler Corporation, Dayton Thermal Products, Webster Street, Dayton, Ohio

For

Leggette, Brashears and Graham, Inc.
6525 Grand Teton Plaza
Madison, Wisconsin 53719

Report No. 112845-0198-032

January 19, 1998

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4518 Taylorsville Road
P.O. Box 51
Dayton, OH 45401-0051
937-236-8805
937-233-2016 FAX

January 19, 1998

Leggette, Brashears and Graham, Inc.
1210 West County Road E
St. Paul, Minnesota 55112

Attention: Mr. Kenneth Vogel

Re: Report No. 112845-0198-032; Soil Study for Proposed Press Pit Foundations, Chrysler Corporation, Dayton Thermal Products, Webster Street, Dayton, Ohio

Dear Mr. Vogel:

Bowser-Morner is pleased to submit our report of the soil study for the above-referenced project. The purpose of the study was to determine the physical characteristics of the soil strata and allowable bearing capacities for the proposed press pit foundations. Also noted are other conditions that could affect the design and/or construction of the press pit foundations.

The samples submitted to our company that were not used to perform the laboratory tests will be kept in our laboratory for 30 days unless you advise us otherwise. If you have any questions or if we can help you in any way on this or future projects, please call the undersigned.

Respectfully submitted,

BOWSER-MORNER ASSOCIATES, INC.

Richard J. Y. Tseng, Ph.D., P.E.
Senior Geotechnical Engineer

BFW/RJYT/krd
3-Addressee
1-Wisconsin Office
6525 Grand Teton Plaza
Madison, Wisconsin 53719
Attn. Mr. Kai S. Hansen
1-BMI Toledo Office
2-File

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BOWSER MORNER.

1.0 INTRODUCTION

Two punch presses will be installed in the Chrysler Corporation's Dayton Thermal Products complex on Webster Street in Dayton, Ohio. A vicinity map (Figure 1) is included in Section III of this report. Our findings on the soil conditions and ground water levels with respect to the potential construction problems, and recommendations for the allowable bearing capacity for the construction of the press pit foundations are given in the report.

Authorization to proceed with this soil study was given in a signed agreement between Leggette, Brashears and Graham, Inc. and Bowser-Morner Associates, Inc. dated December 5, 1997. The work was to proceed in accordance with our proposal and agreement, Quotation No. T-8630 dated December 5, 1997.

2.0 WORK PERFORMED

2.1 FIELD WORK

Three borings were made by others under the instruction of Mr. Kai Hansen of Leggette, Brashears & Graham, Inc. at the relative locations shown on the boring location plan (Figure 2) in Section III. The boring logs and resulting data provided to us are also included in Section III. The soil samples were taken continuously using penetration resistance methods including a 140-pound hammer, a 30-inch drop, and three-inch-O.D. split-spoon samplers through the borings. The disturbed split-spoon samples were visually classified, logged, sealed in moisture-proof jars by the client, and provided to us for our evaluation. The depths where these "A"-type split-spoon samples were collected are noted on the corresponding boring logs.

2.2 LABORATORY WORK

One Unified Soil Classification Test was performed in accordance with ASTM D-422, D-2216, and D-2487. The purpose of this test is to determine parameters that aid in the evaluation of the general behavior of the soil. The results of this test are shown on the soil classification sheet included in Section III.

In addition, 11 moisture content determinations were made in accordance with ASTM D-2216. The moisture contents for the undocumented, brown, lean clay fill

ranged from 10.0% to 16.6% while the moisture contents for the brown sand and brown gravel ranged from 3.2% to 5.1%. The results of the laboratory tests are summarized in Table 2-1 and included in Section III of this report.

TABLE 2-1. Summary of Laboratory Test Results

Boring No.	Depth (ft.)	Moisture Content (%)	Percent Finer Than No. 200 Sieve
1	5.0 - 7.0	10.0	
	11.0 -13.0	5.1	
	13.0 - 15.0	4.6	6.6
	17.0 - 19.0	3.2	
	23.0 - 25.0	4.7	
2	3.5 - 5.0	16.6	
	9.0 - 11.0	4.0	
	13.0 - 15.0	4.7	
3	7.0 - 13.0	3.5	
	17.0 - 21.0	3.4	
	23.0 - 25.0	3.6	

3.0 SOIL AND GROUND WATER CONDITIONS

Based on information from the three boring logs provided by the client, the soil conditions are described in descending order below:

- 7 to 9 inches of concrete floor.
- Below the concrete floor, 4.3 to 4.5 feet of undocumented fill composed of dark brown gravel with sand; brown, sandy lean clay; and dark gray, sandy lean clay.
- In the vicinity of Borings 1 and 2, and below the undocumented fill layer, 2 to 4 feet of brown, sandy lean clay.
- Below the brown, sandy, lean clay layer in Borings 1 and 2 and below the fill layer in Boring 3, brown sand and brown gravel extended to the bottoms of these borings at depths of 17 to 31 feet.

Free ground water was encountered in Borings 1 and 3 during the advancement of the borings at the depths summarized in Table 3.1.

TABLE 3-1. Summary of Ground Water Observations During Soil Exploration

Boring No.	Depth Ground Water First Encountered (ft)	Depth to Ground Water at Completion of Boring (ft)
1	22.0	22.0
2	No Water	No Water
3	23.0	23.0

Free ground water is defined as water that seeps into an open borehole before backfilling takes place. Ground water observations were made during the boring operations by noting the depth of water on the boring tools and in the open boreholes following withdrawal of the boring augers. However, it should be noted that short-term water level readings are not necessarily a reliable indication of the ground water level and that significant fluctuations may occur due to variations in rainfall and other factors. For specific questions on the soil conditions, please refer to the individual boring logs in Section III.

4.0 DISCUSSION AND RECOMMENDATIONS

4.1 PROJECT DESCRIPTION

Two Minster Serial #E2-300-72, 300-ton presses will be installed in the Chrysler Corporation, Dayton Thermal Products plant on Webster Street in Dayton, Ohio. The proposed site is in Bays 2 & 3 and J & K in the Dayton Thermal Products plant building. Each press will be about 6 to 16 feet wide and 30 feet long. We understand that each press pit floor will extend about 10 feet below the top of the plant floor. We assume that the bottoms of the press pit foundations will be about 12 feet below the top of the plant floor. We understand that the maximum press weight will be 93,000 pounds each. The inertial force was given by the client as 20% of the press weight and will be 18,600 pounds. The impact force was given by the client as 90,000 pounds. The total press load was provided by the client as 201,600 pounds each. Our study was limited to providing the allowable bearing capacity for the press foundation design and to providing recommendations on lateral earth pressure to be used by others for the temporary shoring design during the construction.

The following recommendations are based on this information. If the above statements are incorrect or changes are made, Bowser-Morner should be notified so that

the new data can be reviewed and additional recommendations and services can be given if required to meet the needs of your project.

4.2 FOUNDATION RECOMMENDATIONS

The soil conditions for the press foundation sites are indicated in the three borings made by others. We assume that the field boring operation met soil exploration standards. The soil samples were taken with three-inch-O.D. split-spoon samplers with a 140-pound hammer dropped 30 inches. The inside diameter of the spoon samplers was 2-1/2 inches.

The penetration tests were performed with 3-inch-diameter spoon samplers. The penetration test results were converted to results obtained with a standard penetration test (SPT) with a 2-inch-diameter sampler. The conversion was made with the design charts outlined in Foundation Engineering Handbook by H.F. Winterkorn and H.Y. Fan, published by Van Nostrand Reinhold Company (1975). The conversion chart was based on the SPT and the Burmister Standard.

The following recommended allowable bearing capacity is determined based on the converted penetration values. We understand that the press pit excavations will extend to a depth of 10 feet below the top of the floor. At that depth, the bottoms of the press pit foundations will be supported on the brown sand with gravel. A static allowable bearing capacity of 3,000 pounds per square foot (psf) should be used in the design of the press pit foundations.

The allowable bearing capacity is based on static loading conditions only. No dynamic loading information was given at the time this report was prepared. All foundation elements that will be subject to machine (dynamic) loading should be designed in structural isolation from the rest of the structure. Although the dynamic analysis is beyond the scope of this study, the following guidelines should be considered in the design of the foundation elements:

- The foundation members, including the soil immediately above the foundations (if any), should be five times the mass of the machine components applying the dynamic load.
- The vertical thickness of the supporting foundations should not be less than two feet, or as indicated by the length of anchor bolts used. The thickness should not be less than 0.2 times the least dimension of the machine support

frame or 0.1 times the largest dimension.

- The width of the foundations should be at least 1.5 times the vertical height from the floor to the point of dynamic loading.
- The center of gravity of the machine applying the dynamic loading should coincide with the center of gravity of the foundation system supporting the machine.
- The foundation depth should be at least 80% of the vertical height from the floor to the point of dynamic loading.

It should be noted that these are guidelines and are not exhaustive or intended to substitute for a detailed dynamic structural analysis. Dynamic loading is a concern for the foundation design. The dynamic structural analysis should be performed by others.

An isolation trench should be installed around each of the press foundations to reduce the vibrations transmitted to the adjacent plant floor areas. Soft fill or clay slurry can be used to fill the isolation trenches. The design of the isolation trenches is beyond the scope of this study.

Based on the soil conditions indicated in the logs for Borings 1, 2, and 3 provided by the client, 5 to 5.5 feet of undocumented fill that is relatively weak or loose to support any foundations are on the site. Foundations supported on this fill layer will settle and crack. The fill layer extended in the borings to the depths outlined in Table 4-1.

Table 4-1. Depth of Unsuitable Soils

Boring No.	Depth to Bottom of Unsuitable Soil (ft)
1	5.0
2	5.0
3	5.5

The excavation for any footing foundation for the associated equipment next to the presses should extend below the bottom of the unsuitable soil layer. The allowable bearing capacity for any footing foundations supported on the original, brown, sandy lean clay or on the brown sand layer at the depths outlined in Table 4-1 should be limited to a static loading pressure of 2,000 psf.

The present floor slabs in the foundation excavation areas should be saw-cut and removed. After the unsuitable soils have been removed from the foundation areas, the top foot of the exposed ground surface at the bottoms of the excavations should be compacted to 90% of the maximum dry unit weight as defined by the modified Proctor test before the granular base or foundations are constructed. Any soft soil pockets should be undercut and replaced with lean concrete fill or controlled density fill to facilitate the backfill operation since the backfill will be performed in the plant and within the small foundation excavations.

After the bottoms of the excavations has been compacted, lean concrete with a 28-day compressive strength of 1,000 psi or controlled density fill can be placed to bring the excavations to the desired grade. The foundations can be supported on the cured lean concrete fill or on the controlled density fill.

The bearing capacity of a soil is not a unique physical property of the soil, but rather it is explicitly dependent upon several factors including: footing type, size, and shape, depth of embedment, eccentricity and inclination of applied load, footing base inclination, the stiffness of the footing, the relative distance between the bottom of footing and water table, and allowable settlements. The recommended allowable bearing capacity is based on the foundation design parameters given above and the assumptions that the applied load is vertical with no eccentricity, the base is horizontal and level, and the water table is at least five feet below the bottom of the foundation. If the actual conditions vary from the parameters and assumptions stated above, Bowser-Morner should be notified so that the new information can be reviewed and additional recommendations and services can be given to meet the needs of your project.

Foundations supported on soil settle as the result of externally applied loads. Given the vibrations of the presses and with the foundations supported on the brown sand layer, the press foundations may settle. Since the design load and the characteristics of the vibration force were not defined, no estimate of the settlement of the press foundations can be performed; that work is beyond the scope of this study.

4.3 COMPACTION REQUIREMENTS

If any structural fill is needed, the brown sand with gravel removed from the excavation can be used as backfill. Any fill placed below the bottom elevation for a

foundation should be compacted to at least 95% of the maximum dry unit weight with a moisture content within 2% of the optimum moisture content as determined by the modified Proctor test (ASTM D-1557). The compaction should be accomplished by placing the fill in successive, horizontal, approximately six-inch-thick loose lifts and mechanically compacting each lift to at least the specified minimum dry density. Field density tests should be performed at a minimum rate of one per 2500 square feet of fill area and for each lift to verify that adequate compaction is achieved. Fill placed outside the press pit wall foundations will be the subgrade for the adjacent plant floor slab. Fill placed above the footing foundations as the subgrade for the floor slabs should be compacted to at least 90% of the maximum dry unit weight with a moisture content within 2% of the optimum moisture content as determined by the modified Proctor test (ASTM D-1557).

Puddling or jetting of the backfill material, including the utility trenches, should not be allowed as a compaction method. Silty or clayey soils encountered above foundation depth will often soften, and the bearing capacity may potentially be reduced if water ponds in the excavation. Soils exposed in the bases of satisfactory foundation excavations should be protected against any detrimental change in condition such as from disturbance, rain, and freezing. If possible, foundation concrete should be placed the same day the excavation is made. If this is not practical, the foundation excavations should be adequately protected. It must be emphasized that all excavations must conform to all state, federal, and local regulations relative to slope geometry.

4.4 FOUNDATION EXCAVATIONS

The foundation excavations should be observed to ensure that the loose, soft, or otherwise undesirable materials are removed and that the foundations and granular base layer will be supported directly on an acceptable surface. At the time of this observation, it may be necessary to use a hand penetration device in the base of the foundation excavation to ensure that the soils immediately below the foundation base are satisfactorily prepared to support the foundations. Please note that such shallow observations do not replace an adequate deep-boring program and structural fill compaction QA/QC records.

If pockets of soft, loose, or otherwise unsuitable materials are encountered in the perimeter footing excavations and it is inconvenient to lower the footings, the proposed

footing elevations may be re-established by backfilling after the undesirable materials have been removed. The excavation under each footing should extend to suitable soils, and the base of the excavation should extend one lateral foot for every foot of excavation below the bottom of the footing foundation as shown in Figure 3 in Section III. The entire excavation should then be refilled with well-compacted, engineered fill. Special care should be taken to remove the sloughed, loose, or soft materials near the base of the excavation slopes. Extra care should also be taken to tie-in the compacted fill with the excavation slopes, with benches as necessary, to ensure that no pockets of loose or soft materials are left along the excavation slopes below the foundation bearing level. The contractor should maintain temporary cut slopes in accordance with the current OSHA regulations governing trenching and slope stability.

4.5 CONSTRUCTION DEWATERING

At the time of our investigation, free ground water was encountered at depths of 22 to 23 feet below the existing grade as outlined in Table 3-1. Since ground water was encountered below the anticipated excavation and foundation depth, we do not anticipate that seepage will be encountered during construction. If ground water is encountered in the brown sand layer, it should be lowered by shallow wells from which the water can be pumped. The shallow wells can consist of perforated steel pipes installed vertically. However, care must be exercised when pumping from sumps that extend into silts or other granular soils since general deterioration of the bearing soils and a localized "quick" condition could result. If significant ground water influxes are noted within the excavations, other dewatering techniques should be determined at the time of construction.

The amount and type of dewatering required during construction will depend on the weather and ground water levels at the time of construction, and the effectiveness of the contractor's techniques in preventing surface runoff from entering open excavations. Typically, ground water levels are highest during winter and spring months, and lower in summer and early fall.

4.6 CONSIDERATIONS OF LATERAL EARTH PRESSURE

Since the excavations will be performed inside the plant and into the brown sand layer, braced sheet-pile walls will be needed to keep the side walls from caving-in and to

avoid undermining the adjacent plant floor slab on-grade and the adjacent building column foundations. The braced sheet-pile walls can be designed with a uniform pressure of 350 pounds per square foot (psf) pressure for a 10-foot-high cut. If the excavation will be 12 feet deep, the uniform pressure against the braced sheet-pile wall will be 410 psf. Additionally, any surcharge load due to the construction operation should be added onto the design of the lateral pressure against the sheet-pile walls.

The press pit walls should be designed with an "at-rest" condition with a lateral earth pressure coefficient "k_o" of 0.5. We assume that the brown sand with gravel will be used as backfill behind the press-pit walls. Based on the unit weight of brown sand, brown lean clay fill or on the newly placed sand and gravel fill, at 130 pounds per cubic foot, the lateral earth pressure of 65 pounds per square foot per foot of depth should be used in the design of the sheet-pile walls and the press-pit walls. Since the ground water is at least 22 feet below the top of the floor elevation, it should not be a problem for the wall design. However, if the ground water table is higher during wet weather or under flood conditions, a water pressure of 62.4 pounds per square foot should be added to the lateral pressure against the press-pit walls to an elevation below the high water level.

5.0 CLOSURE

5.1 BASIS OF RECOMMENDATIONS

The evaluations, conclusions, and recommendations in this report are based on our interpretation of the field and laboratory data obtained during the exploration, our understanding of the project and our experience with similar sites and subsurface conditions. Data used during this exploration included, but were not necessarily limited to:

- Three exploratory borings performed by others and provided by Leggette, Brashears & Graham, Inc. during this study.
- Results of the laboratory soil tests.
- Site plan and boring locations provided by Leggette, Brashears & Graham, Inc.
- Limited interaction with Mr. Matt Peramaki, Mr. Kai Hansen, and Mr. Ken Vogel of Leggette, Brashears & Graham, Inc.
- Published soil or geologic data of this area.

In the event that changes in the project characteristics are planned, or if additional information or differences from the conditions anticipated in this report become apparent, Bowser-Morner should be notified so that the conclusions and recommendations contained in this report can be reviewed and, if necessary, modified or verified in writing.

5.2 LIMITATIONS AND ADDITIONAL SERVICES

The subsurface conditions discussed in this report and those shown on the boring logs represent an estimate of the subsurface conditions based on interpretation of the boring data using normally accepted geotechnical engineering judgments. Although individual test borings are representative of the subsurface conditions at the boring locations on the dates shown, they are not necessarily indicative of subsurface conditions at other locations or at other times.

It must be emphasized that the excavation and compaction of soil fill are highly influenced by weather conditions. Performing the earthwork under wet and frozen conditions is generally very difficult. Hence, compaction of wet silty and clayey soil should be avoided during wet and frozen conditions because the wet soil cannot be compacted to the required unit weight without drying or other soil stabilization methods.

Regardless of the thoroughness of a subsurface exploration, there is the possibility that conditions between borings will differ from those at the boring locations, that conditions are not as anticipated by designers, or that the construction process has altered the soil conditions. As variations in the soil profile are encountered, additional subsurface sampling and testing may be necessary to provide data required to reevaluate the recommendations of this report. Consequently, after submission of this report, it is recommended that Bowser-Morner be authorized to perform additional services to work with the designer(s) to minimize errors and omissions regarding the interpretation and implementation of this report.

Prior to construction, we recommend that Bowser-Morner:

- Work with the designers to implement the recommended geotechnical design parameters into plans and specifications.
- Consult with the design team regarding interpretation of this report.
- Establish criteria for the construction observation and testing for the soil conditions encountered at this site.

- Review final plans and specifications pertaining to geotechnical aspects of design.

During construction, we recommend that Bowser-Morner:

- Observe the construction, particularly the site preparation, fill placement, and foundation excavation or installation.
- Perform in-place density testing of all compacted fill.
- Perform materials testing of soil and other materials as required.
- Consult with the design team to make design changes in the event that differing subsurface conditions are encountered.

If Bowser-Morner is not retained for these services, we shall assume no responsibility for construction compliance with the design concepts, specifications or recommendations.

5.3 WARRANTY

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. No other warranty, express or implied, is made.

The scope of this study did not include an environmental assessment for the presence or absence of hazardous or toxic materials in the soil, surface water, ground water or air, on, within or beyond the site studied. Any statements in the report or on the boring logs regarding odors, staining of soils or other unusual items or conditions observed are strictly for the information of our client.

To evaluate the site for possible environmental liabilities, please refer to the environmental assessment study performed by Leggette, Brashears & Graham, Inc.

This report has been prepared for the exclusive use of Leggette, Brashears & Graham, Inc. for specific application to the press foundations in Dayton Thermal Products on Webster Street in Dayton, Ohio (see Figure 1 in Section III of this report). Specific design and construction recommendations have been provided in the various sections of the report. The report shall, therefore, be used in its entirety. This report is not a bidding document and shall not be used for that purpose. Anyone reviewing this report must interpret and draw their own conclusions regarding specific construction

techniques and methods chosen. Bowser-Morner is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

CLEARING AND GRADING SPECIFICATIONS

I. GENERAL CONDITIONS

The contractor shall furnish all labor, materials, and equipment, and perform all work and services necessary to complete in a satisfactory manner the site preparation, excavation, filling, compaction and grading as shown on the plans and as described therein.

This work shall consist of all clearing and grading, removal of existing structures unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and compaction of the fill, and all subsidiary work necessary to complete the grading of the cut and fill areas to conform with the lines, grades, slopes, and specifications.

This work is to be accomplished under the constant and continuous supervision of the Owner or his designated representative.

In these specifications the terms "approved" and "as directed" shall refer to directions to the Contractor from the Owner or his designated representative.

II. SUBSURFACE CONDITIONS

Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including, without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site; and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work. Borings and/or soil investigations shall have been made. Results of these borings and studies will be made available by the Owner to the Contractor upon his request, but the Owner is not responsible for any interpretations or conclusions with respect thereto made by the Contractor on the basis of such information, and the Owner further has no responsibility for the accuracy of the borings and the soil investigations.

If conditions other than those indicated are discovered by the Contractor, the Owner should be notified immediately. The material which the Contractor believes to be a changed condition should not be disturbed so that the Owner can investigate the condition.

III. SITE PREPARATION

Within the specified areas, all trees, brush, stumps, logs, tree roots, and structures scheduled for demolition shall be removed and disposed of.

All cut and fill areas shall be properly stripped. Topsoil will be removed to its full depth and stockpiled for use in finish grading. Any rubbish, organic and other objectionable soils, and other deleterious material, shall be disposed of off the site, or as directed by the Owner or his designated representative if on site disposal is provided. In no case shall such objectionable material be allowed in or under the fill unless specifically authorized in writing.

Prior to the addition of fill, the original ground shall be compacted to job specifications as outlined below. Special notice shall be given to the proposed fill area at this time. If wet spots, spongy conditions, or ground water seepage is found, corrective measures must be taken before the placement of fill.

IV. FORMATION OF FILL AREAS

Fills shall be formed of satisfactory materials placed in successive horizontal layers of not more than eight (8) inches in loose depth for the full width of the cross section. The depth of lift may be increased if the Contractor can demonstrate the ability to compact a larger lift. If compaction is accomplished using hand-tamping equipment, lifts will be limited to 4-inch lose lifts.

All material entering the fill shall be free of organic matter such as leaves, grass, roots, and other objectionable material.

The operations on earth work shall be suspended at any time when satisfactory results cannot be obtained because of rain, freezing weather, or other unsatisfactory conditions. The Contractor shall keep the work areas graded to provide the drainage at all times.

The fill material shall be of the proper moisture content before compaction efforts are started. Wetting or drying of the material and manipulation to secure a uniform moisture content throughout the layer shall be required. Should the material be too wet to permit proper compaction or rolling, all work on all portions of the embankment thus affected shall be delayed until the material has dried to the required moisture content. The moisture content of the fill material should be no more than two (2) percentage points higher or lower than optimum unless otherwise authorized. Sprinkling shall be done with equipment that will satisfactorily distribute the water over the disced area.

Compaction operations shall be continued until the fill is compacted to not less than 90% above foundation elevation and 95% below foundation elevation, of the maximum density as determined in accordance with ASTM D-1557-91 (Modified). Any areas inaccessible to a roller shall be consolidated and compacted by mechanical tampers. The equipment shall be operated in such a manner that hardpan, cemented gravel, clay or other chunky soil material will be broken up into small particles and become incorporated with the other material in the layer.

In the construction of filled areas, starting layers shall be placed in the deepest portion of the fill, and as placement progresses, additional layers shall be constructed in horizontal planes. If directed, original slopes shall be continuously, vertically benched to provide horizontal fill planes. The size of the benches shall be formed so that the base of the bench is horizontal and the back of the bench is vertical. As many benches as are necessary to bring the site to final grade shall be constructed. Filling operations shall begin on the lowest bench, with the fill being placed in horizontal eight (8) inch loose lifts unless otherwise authorized. The filling shall progress in this manner until the entire first bench has been filled, before any fill is placed on the succeeding benches. Proper drainage shall be maintained at all times during benching and filling of the benches, to insure that all water is drained away from the fill area.

When rock and other embankment material are excavated at approximately the same time, the rock shall be incorporated into the outer portion of the areas. Stones or fragmentary rock larger than four (4) inches in their greatest dimensions will not be allowed in the fill unless specifically authorized in writing. Rock fill shall be brought up in layers as specified or as directed, and every effort shall be exerted to fill the voids with the finer material to form a dense, compact mass. Rock or boulders shall be disposed of as deleterious material per Item III.

Frozen material shall not be placed in the fill nor shall the fill be placed upon frozen material.

The Contractor shall be responsible for the stability of all fills made under the contract, and shall replace any portion, which in the opinion of the Owner or his designated representative, has become displaced due to carelessness or negligence on the part of the Contractor. Fill damaged by inclement weather shall be repaired at the Contractor's expense.

V. SLOPE RATIO AND STORM WATER RUN-OFF

Slopes shall not be greater than 2 (horizontal) to 1 (vertical) in both cut and fill, and storm water shall not be drained over the slopes.

VI. GRADING

The Contractor shall furnish, operate, and maintain such equipment as is necessary to construct uniform layers, and control smoothness of grade for maximum compaction and drainage.

VII. COMPACTING

The compaction equipment shall be approved equipment of such design, weight, and quantity to obtain the required density in accordance with these specifications.

VIII. TESTING AND INSPECTION SERVICES

Testing and inspection services will be provided by the Owner.

IX. SPECIAL CONDITIONS

BORING No. 1

BORING LOG

SHEET 1 OF 2

CLIENT LEGGETTE, BRASHEARS & GRAHAM, INC.
ST. PAUL, MINNESOTA

PROJECT PRESS PIT FOUNDATION, CHRYSLER CORP., DAYTON
THERMAL PRODUCTS, WEBSTER ST., DAYTON, OH

REPORT No. 112845/hgw

LOCATION OF BORING : As shown on Boring Location Plan

GROUND ELEV. NOT TAKEN METHOD 4 1/4" HSA

DRILLING COMMENTS The boring was made with a 3" spoon and 140 lb. hammer.

DATE, START 12/11/97 FINISH 12/11/97

DRILLERS KSH, MPP

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL (Major Component: Gravel, Sand, Silt, Clay; Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%)	SPT "N" OR RECOVERY
	1A	0.0	0.6		0.6		(FILL) CONCRETE slab (7")	
1	2A	1.0	3.0	3			(FILL) Dark brown GRAVEL with sand (trace shale, with lean clay lens) - moist	
2				4				7
				3				
3				4	3.0			
	3A	3.0	5.0	3			(FILL) Brown sandy lean CLAY (some gravel, trace bricks) - damp	
4				3				6
				3				
5				4	5.0			
	4A	5.0	7.0	6			(ORIGINAL) Brown sandy lean CLAY (some gravel) - damp	
6				6				14
				8				
7				7	7.0			
	5A	7.0	9.0	7			Brown SAND with gravel - damp	
8				7				14
				7				
9				12				
	6A	9.0	11.0	7				
10				7				16
				9				
11				6	11.0			
	7A	11.0	13.0	7			Brown GRAVEL (some cobbles, some sand) - damp	
12				9				19
				10				
13				7				
	8A	13.0	15.0	6				
14				10				21
				11				
15				13	15.0			
	9A	15.0	17.0	11			Brown SAND with gravel - damp	
16				18				36
				18				
17				19				
	10A	17.0	19.0	10				
18				11				26
				15				
19				7				
	11A	19.0	21.0	13				
20				23				43
				20				

GROUND WATER OBSERVATIONS		DEPTH	DATE
	INITIAL	22.0	12/11/97
	AT COMPLETION	22.0	12/11/97
	OTHER	N/A	N/A

A — SPLIT SPOON
B — ROCK CORE
C — SHELBY TUBE
D — OTHER

BORING No. 1

REPORT No. 112845/hgw SHEET 2 OF 2

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL Major Component: Gravel Sand Silt Clay / Minor Component Term Trace 1-10% Some 11-35% And 36-50%	SPT "N" OR RECOVERY
	12A	21.0	23.0	38 17				
22				60			▼ (Becomes wet at 22.0')	122
				62				
23				62				
	13A	23.0	25.0	21				
24				24				51
				27				
25				33				
	14A	25.0	27.0	20				
26				23				50
				27				
27				29				
	15A	27.0	29.0	20				
28				38				62
				24				
29				31				
	16A	29.0	31.0	17				
30				25				63
				38				
31				42	31.0			

Bottom of Boring at 31.0'

GROUND WATER OBSERVATIONS		DEPTH	DATE
	INITIAL	22.0	12/11/97
	AT COMPLETION	22.0	12/11/97
	OTHER	N/A	N/A

A—SPLIT SPOON
B—ROCK CORE
C—SHELBY TUBE
D—OTHER

BORING No. 2

BORING LOG

SHEET 1 OF 1

CLIENT LEGGETTE, BRASHEARS & GRAHAM, INC.
ST. PAUL, MINNESOTA

PROJECT PRESS PIT FOUNDATION, CHRYSLER CORP., DAYTON
THERMAL PRODUCTS, WEBSTER ST., DAYTON, OH

REPORT No. 112845/hgw

LOCATION OF BORING :
As shown on Boring Location Plan

GROUND ELEV. NOT TAKEN METHOD 4 1/4" HSA

DRILLING COMMENTS The boring was made with a 3" spoon and 140 lb. hammer.

DATE, START 12/11/97 FINISH 12/11/97

DRILLERS KSH, MPP

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL Major Component: Gravel, Sand, Silt, Clay Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	SPT "N" OR RECOVERY
	1A	0.0	0.7		0.7		(FILL) CONCRETE slab (8")	
1	2A	1.0	3.0	2			(FILL) Brown to dark gray sandy lean CLAY (trace gravel) - damp	
2				4				9
				5				
3				6				
	3A	3.0	5.0	2				
4				7				12
				5				
5				8	5.0			
	4A	5.0	7.0	4			(ORIGINAL) Brown sandy lean CLAY (trace gravel) - damp	
6				6				14
				8				
7				10				
	1C	7.0	9.0					
8								
					9.0			
9	5A	9.0	11.0	7			Brown SAND with gravel - damp	
10				20				40
				20				
11				31				
	6A	11.0	13.0	11				
12				13				25
				12				
13				10				
	7A	13.0	15.0	8				
14				9				17
				8				
15				7				
	8A	15.0	17.0	7				
16				16				30
				14				
17				12	17.0			

Bottom of Boring at 17.0'

GROUND WATER OBSERVATIONS		DEPTH	DATE
	INITIAL	NONE	12/11/97
	AT COMPLETION	NONE	12/11/97
	OTHER	N/A	N/A

A—SPLIT SPOON
B—ROCK CORE
C—SHELBY TUBE
D—OTHER

BORING No. 3

SHEET 1 OF 2

BORING LOG

CLIENT LEGGETTE, BRASHEARS & GRAHAM, INC.
ST. PAUL, MINNESOTA

PROJECT PRESS PIT FOUNDATION, CHRYSLER CORP., DAYTON
THERMAL PRODUCTS, WEBSTER ST., DAYTON, OH

REPORT No. 112845/hgw

LOCATION OF BORING :
As shown on Boring Location Plan

GROUND ELEV. NOT TAKEN METHOD 4 1/4" HSA

DRILLING COMMENTS

DATE, START 12/12/97 FINISH 12/12/97

DRILLERS KSH, MPP

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL Major Component: Gravel, Sand, Silt, Clay Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	SPT "N" OR RECOVERY
	1A	0.0	0.7				(FILL) CONCRETE slab (9")	
					1.0			
1	2A	1.0	3.0	10			(FILL) Dark brown sandy lean CLAY (trace gravel, trace wood) - dry	
				8				17
2				9				
				12				
3	3A	3.0	5.0	4				
				7				15
4				8			(With trace cinders at 4.0')	
				10				
5	4A	5.0	7.0	4	5.5			
				8			(ORIGINAL) Brown SAND with gravel - damp	22
6				14				
				14				
7	5A	7.0	9.0	8				
				9				23
8				14				
				19				
9	6A	9.0	11.0	12				
				20				53
10				33				
				39				
11	7A	11.0	13.0	12				
				23				47
12				24				
				23				
13	8A	13.0	15.0	15				
				20				31
14				11				
				12				
15	9A	15.0	17.0	8				
				15				36
16				21				
				22				
17	10A	17.0	19.0	10				
				20				46
18				26				
				33				
19	11A	19.0	20.0	30			(Trace cobbles at 19.0')	
				125/4"				100+
20								

GROUND WATER OBSERVATIONS		DEPTH	DATE
	INITIAL	23.0	12/12/97
	AT COMPLETION	23.0	12/12/97
	OTHER	N/A	N/A

A—SPLIT SPOON
B—ROCK CORE
C—SHELBY TUBE
D—OTHER

BORING No. 3

REPORT No. 112845/hgw SHEET 2 OF 2

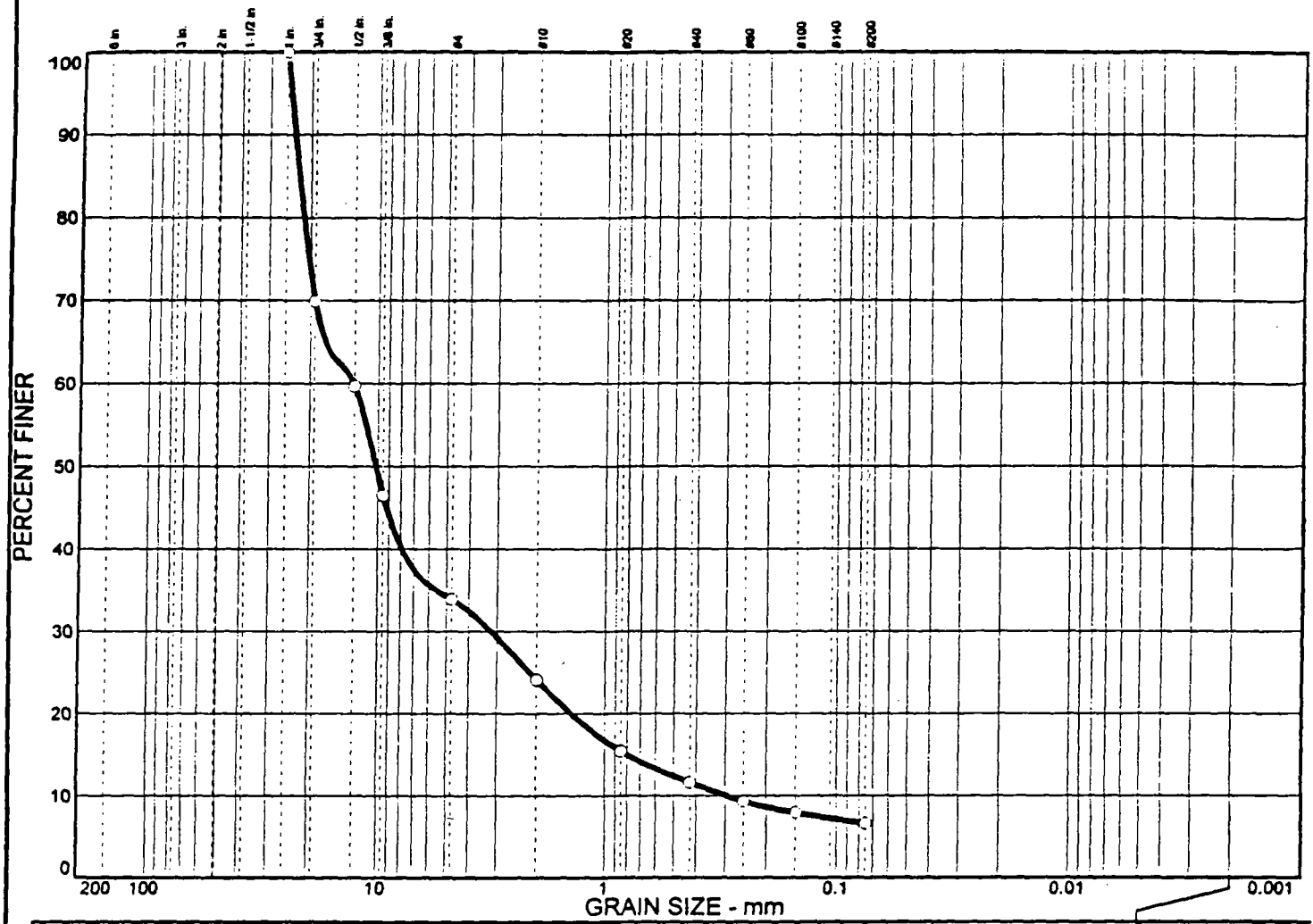
DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL Major Component: Gravel, Sand, Silt, Clay / Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	SPT "N" OR RECOVERY
	12A	21.0	23.0	11				
22				23				48
				25				
23				25			(Becomes wet at 23.0')	
	13A	23.0	24.5	12				
24				23				100+
				120				
25								
	14A	25.0	25.2	110/2"			(Trace cobbles at 25.0')	
26								100+
27								
	15A	27.0	29.0	4				
28				21				54
				33				
29				62				
	16A	29.0	31.0	8				
30				18				55
				37				
31				40	31.0			

Bottom of Boring at 31.0'

GROUND WATER OBSERVATIONS		DEPTH	DATE
	INITIAL	23.0	12/12/97
	AT COMPLETION	23.0	12/12/97
	OTHER	N/A	N/A

A—SPLIT SPOON
B—ROCK CORE
C—SHELBY TUBE
D—OTHER

GRAIN SIZE DISTRIBUTION TEST REPORT



	% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	66.1	27.3	6.6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○		NP	22.4	12.8	10.2	3.20	0.803	0.299	2.67	42.98

MATERIAL DESCRIPTION	USCS	AASHTO
○ brown well-graded GRAVEL with silt and sand	GW-GM	A-1-a

Project No. 112845 **Client:** Leggette, Brashears & Graham, Inc.

Project: Dayton Thermal Products, Chrysler Corporation

○ **Location:** 1-7A, 13.0'-15.0'

Remarks:

○ Date Received: 1-06-98

As Received

Moisture Content: 4.6%

GRAIN SIZE DISTRIBUTION TEST REPORT

BOWSER-MORNER, INC.

LM

GRAIN SIZE DISTRIBUTION TEST DATA

Client: Leggette, Brashears & Graham, Inc.
Project: Dayton Thermal Products, Chrysler Corporation
Project Number: 112845

Sample Data

Source: 112845 Leggette, Brashears & Graham, Inc.
Sample No.: 1-7A, 13.0'-15.0'
Elev. or Depth: **Sample Length (in./cm.):**
Location: 1-7A, 13.0'-15.0'
Description: brown well-graded GRAVEL with silt and sand
Liquid Limit: **Plastic Limit:** NP
USCS Classification: GW-GM **AASHTO Classification:** A-1-a
Testing Remarks: Date Received: 1-06-98

As Received
Moisture Content: 4.6%

Mechanical Analysis Data

	Initial
Dry sample and tare=	468.41
Tare =	204.52
Dry sample weight =	263.89

Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
1.00 inch	0.00	100.0
.75 inch	79.49	69.9
.50 inch	106.49	59.7
.375 inch	141.15	46.5
# 4	174.57	33.9
# 10	200.42	24.1
# 20	223.32	15.4
# 40	233.21	11.6
# 60	239.28	9.3
# 100	243.05	7.9
# 200	246.49	6.6

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% + 3" = 0.0 **% GRAVEL** = 66.1 **% SAND** = 27.3
% FINES = 6.6

D_{85}= 22.43 D_{60}= 12.84 D_{50}= 10.24
D_{30}= 3.20 D_{15}= 0.80 D_{10}= 0.30
C_c= 2.6691 C_u= 42.9838

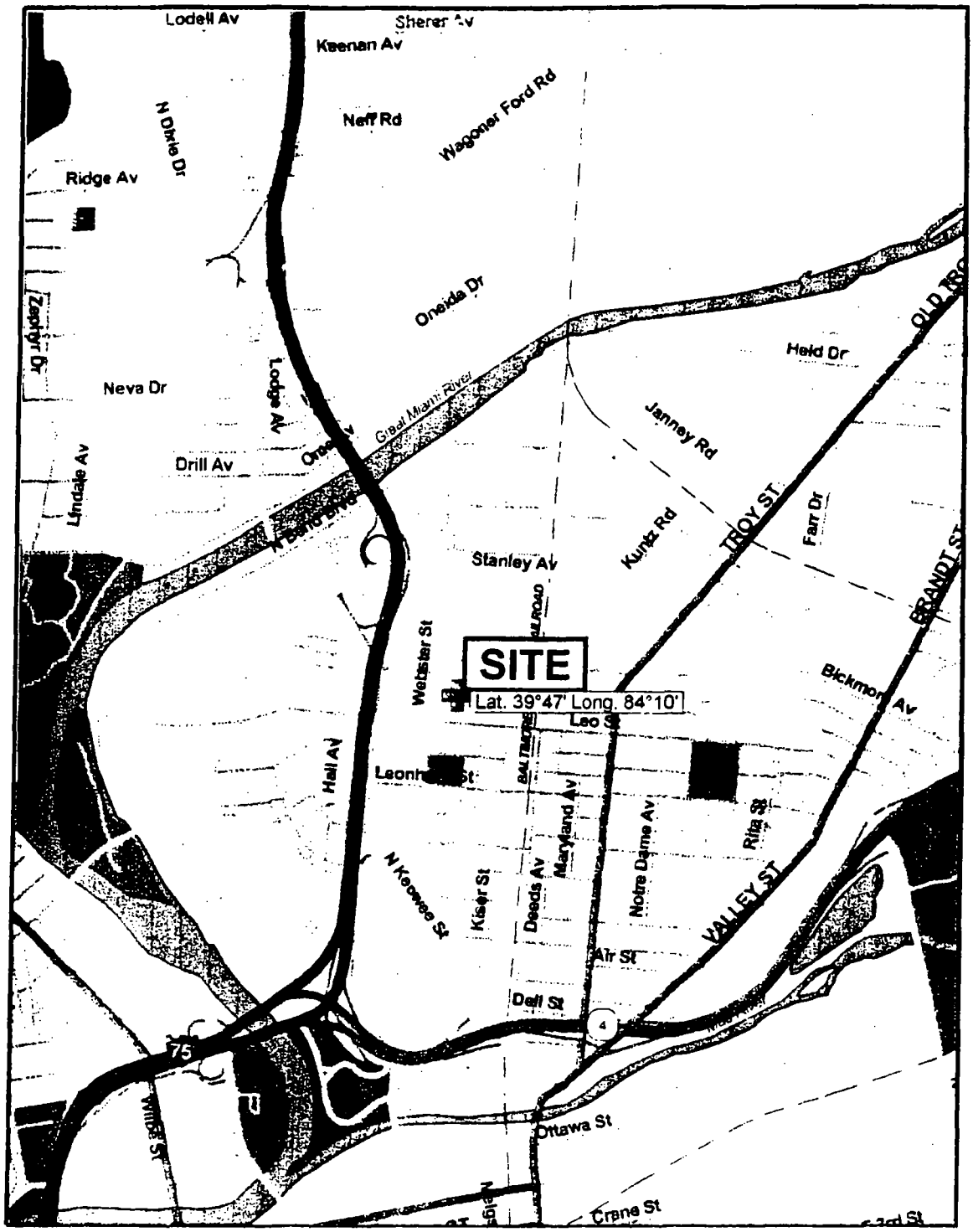
Moisture Content of Soil

ASTM (D-2216)

BOWSER MORNER.

Client: Leggette, Brashears & Graham, Inc.
Project: Dayton Thermal Products, Chrysler Corporation
Work Order No.: 112845
Date: 01/06/98

Boring Number	Sample Number	Depth, (ft)	Depth, (m)	Moisture Content, (%)
1	1 A	1.0 - 3.0	0.3 - 0.9	Not Tested
1	2 A	3.0 - 5.0	0.9 - 1.5	Not Tested
1	3 A	5.0 - 7.0	1.5 - 2.1	10.0
1	4 A	7.0 - 9.0	2.1 - 2.7	Not Tested
1	5 A	9.0 - 11.0	2.7 - 3.4	Not Tested
1	6 A	11.0 - 13.0	3.4 - 4.0	5.1
1	7 A	13.0 - 15.0	4.0 - 4.6	4.6
1	8 A	15.0 - 17.0	4.6 - 5.2	Not Tested
1	9 A	17.0 - 19.0	5.2 - 5.8	3.2
1	10 A	19.0 - 21.0	5.8 - 6.4	Not Tested
1	11 A	21.0 - 23.0	6.4 - 7.0	Not Tested
1	12 A	23.0 - 25.0	7.0 - 7.6	4.7
1	13 A	25.0 - 27.0	7.6 - 8.2	Not Tested
1	14 A	27.0 - 29.0	8.2 - 8.8	Not Tested
1	15 A	29.0 - 31.0	8.8 - 9.4	Not Tested
2	1 A	1.0 - 3.0	0.3 - 0.9	Not Tested
2	2 A	3.0 - 5.0	0.9 - 1.5	16.6
2	3 A	5.0 - 7.0	1.5 - 2.1	Not Tested
2	4 A	9.0 - 11.0	2.7 - 3.4	4.0
2	5 A	11.0 - 13.0	3.4 - 4.0	Not Tested
2	6 A	13.0 - 15.0	4.0 - 4.6	4.7
2	7 A	15.0 - 17.0	4.6 - 5.2	Not Tested
3	1 A	1.0 - 3.0	0.3 - 0.9	14.8
3	2 A	3.0 - 5.0	0.9 - 1.5	Not Tested
3	3 A	5.0 - 7.0	1.5 - 2.1	Not Tested
3	4 A	7.0 - 13.0	2.1 - 4.0	3.5
3	5 A	13.0 - 15.0	4.0 - 4.6	Not Tested
3	6 A	15.0 - 17.0	4.6 - 5.2	Not Tested
3	7 A	17.0 - 21.0	5.2 - 6.4	3.4
3	8 A	21.0 - 23.0	6.4 - 7.0	Not Tested
3	9 A	23.0 - 25.0	7.0 - 7.6	3.6
3	10 A	25.0 - 27.0	7.6 - 8.2	Not Tested
3	11 A	27.0 - 29.0	8.2 - 8.8	Not Tested
3	12 A	29.0 - 31.0	8.8 - 9.4	Not Tested



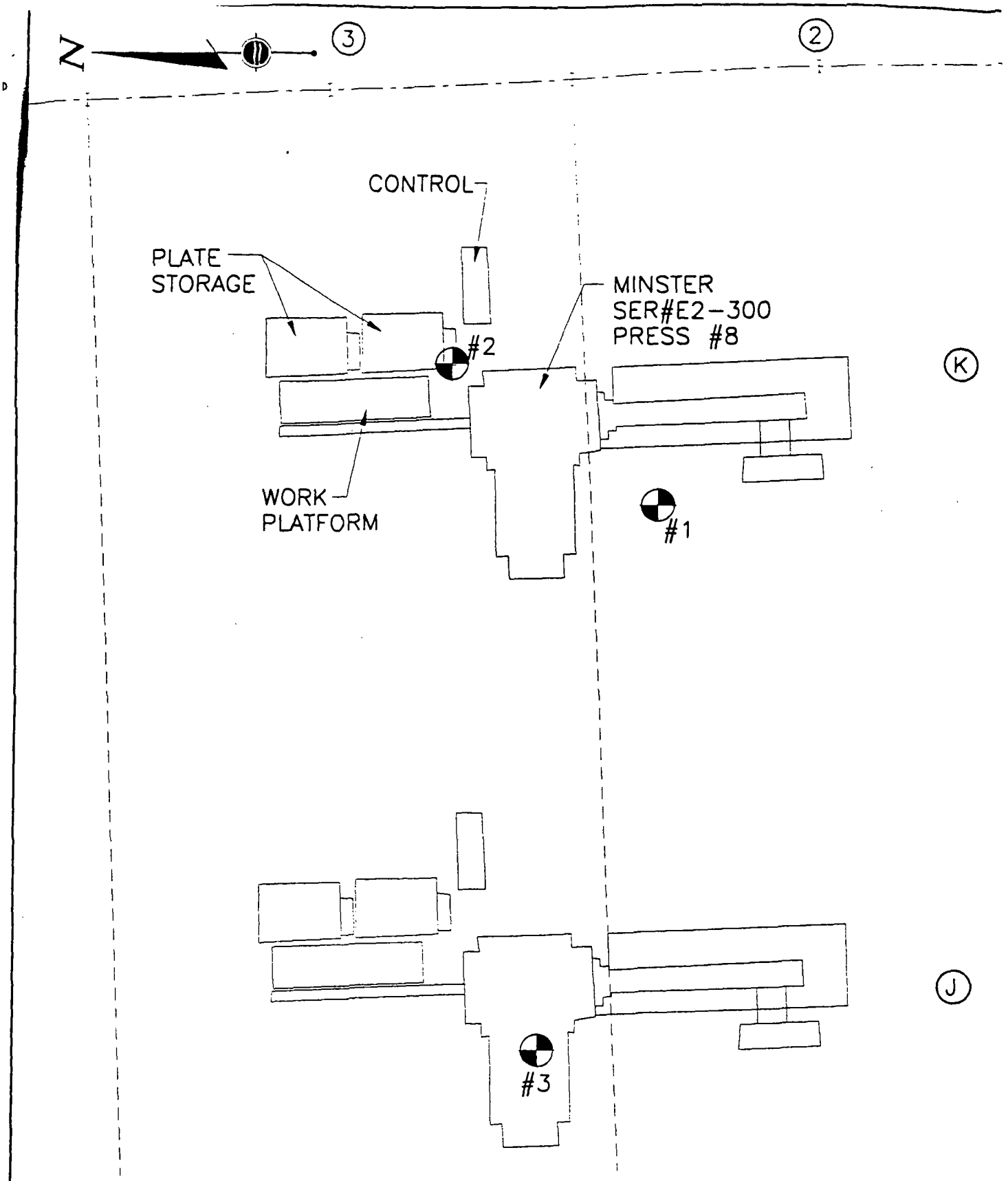
VICINITY MAP

SOIL STUDY FOR A PRESS PIT FOUNDATION, CHRYSLER CORP., DAYTON THERMAL PRODUCTS, WEBSTER STREET, DAYTON, OHIO

CLIENT: LEGGETTE, BRASHEARS & GRAHAM, INC. 1-98/HGW

PROJECT NO.	112845
SCALE	1:25000
FIGURE NO.	1

BOWSER MORNER.



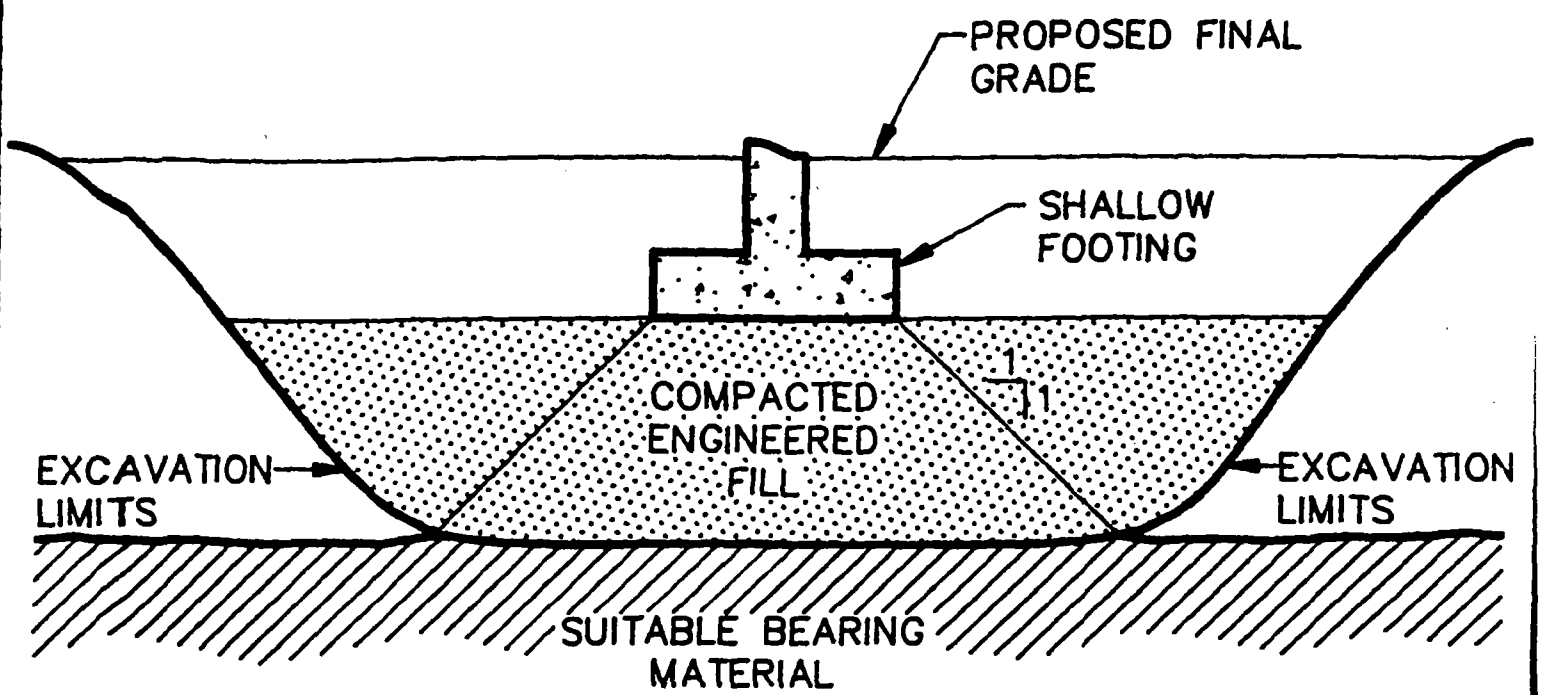
BORING LOCATION PLAN

SOIL STUDY FOR A PRESS PIT FOUNDATIONS, CHRYSLER CORP., DAYTON THERMAL PRODUCTS, WEBSTER STREET, DAYTON, OHIO

CLIENT: LEGGETTE, BRASHEARS & GRAHAM, INC. 1-98/HGW

PROJECT NO.	112845
SCALE	1"=10'
FIGURE NO.	2

BOWSER MORNER.



DESIGN ILLUSTRATION
SHALLOW FOOTINGS IN AN UNDERCUT AREA

SCALE
NONE

FIGURE NO.
3

BOWSER MORNER

EPA Region 5 Records Ctr.
350065

Ground Penetrating Radar Survey at the Daimler Chrysler Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio

Submitted to:

Leggette, Brashears & Graham, Inc.
1210 West County Road E
Suite 700
St. Paul, MN 55112

Prepared By:

GeoModel, Inc.
750 Miller Drive, SE
Suite B-3
Leesburg, VA 20175

January 2000

JAN 31 2000

Introduction

On January 15, 16, 17, and 18, 2000, GeoModel, Inc. conducted a Ground Penetrating Radar (GPR) survey for Leggette, Brashears, and Graham, Inc. at the Daimler Chrysler Dayton Thermal Products Plant. The GPR survey was conducted in three separate areas including Building 53 Plastic Molding area, the storage/parking area west of Building 47 Service Part Storage, and Building 40A Plate/Fin Evaporator area (See Figures 1, 2, and 3).

In Building 53, the main concern was to locate any possible underground storage tanks since a storage tank was found and excavated near injection mold machine 18. The GPR survey was also conducted in Area 53 to locate any pilings, old foundations or voids (See Figures 1a, 1b, 1c, and 1d).

West of Building 47, a GPR survey was conducted in the parking and storage area to detect any underground storage tanks and to map existing utility lines under the concrete (See Figure 2).

In Building 40A, a void under the concrete floor was detected during the installation of two guard posts. A GPR survey was conducted in this area to determine the size and depth of the void (See Figure 3).

GPR Equipment

The Daimler Chrysler site was scanned with an SIR-2 GPR digital control unit and a 400 MHz antenna. Subsurface reflections were recorded on the computer hard drive of the SIR-2. Any anomalous readings that may possibly represent underground storage tanks, old foundations, pilings, voids or underground utilities were plotted on a base map of each of the respective survey areas.

Transect Locations

Transect lines were measured with a tape measure and were painted or chalked in the field. The GPR transects were generally made 5 feet apart across the Building 53 site in both the east-west direction and in the north-south direction (where accessible). At Building 47, the curbed area was conducted with 5 foot spacing between transects and the remainder of the site was conducted with 10 foot spacing. In the Building 40A void survey, transects were made 2.5 feet apart in both directions. Transect locations are shown on each of the site maps (Figures 1, 2, and 3).

Results

Good results were obtained with the ground penetrating radar in each of the survey areas at the Dayton Daimler Chrysler Plant. Continuous reflections were received from depths of up to 10 to 15 feet.

Building 53

Building 53, in the injection mold area, was surveyed with over 400 ground penetrating radar transect lines. The survey area had numerous boxes and carts within the survey area which limited coverage by ground penetrating radar in some areas, especially around the injection machines. However, sufficient survey area was available to make a good assessment of the subsurface conditions.

The GPR equipment was adjusted to scan to a depth of 15 feet. This depth setting was suitable for locating underground storage tanks, foundations and pilings.

Transect locations for the GPR survey are shown in Figure 1. Several GPR profiles are included to show subsurface conditions in Building 53. These profiles include GPR transects A-A', B-B', C-C', and D-D'.

Building 53 was examined for the possible presence of underground storage tanks, old foundations, pilings, or voids. After careful examination of the GPR records, no evidence of underground storage tanks, old foundations, pilings or voids could be found in the area.

Building 47

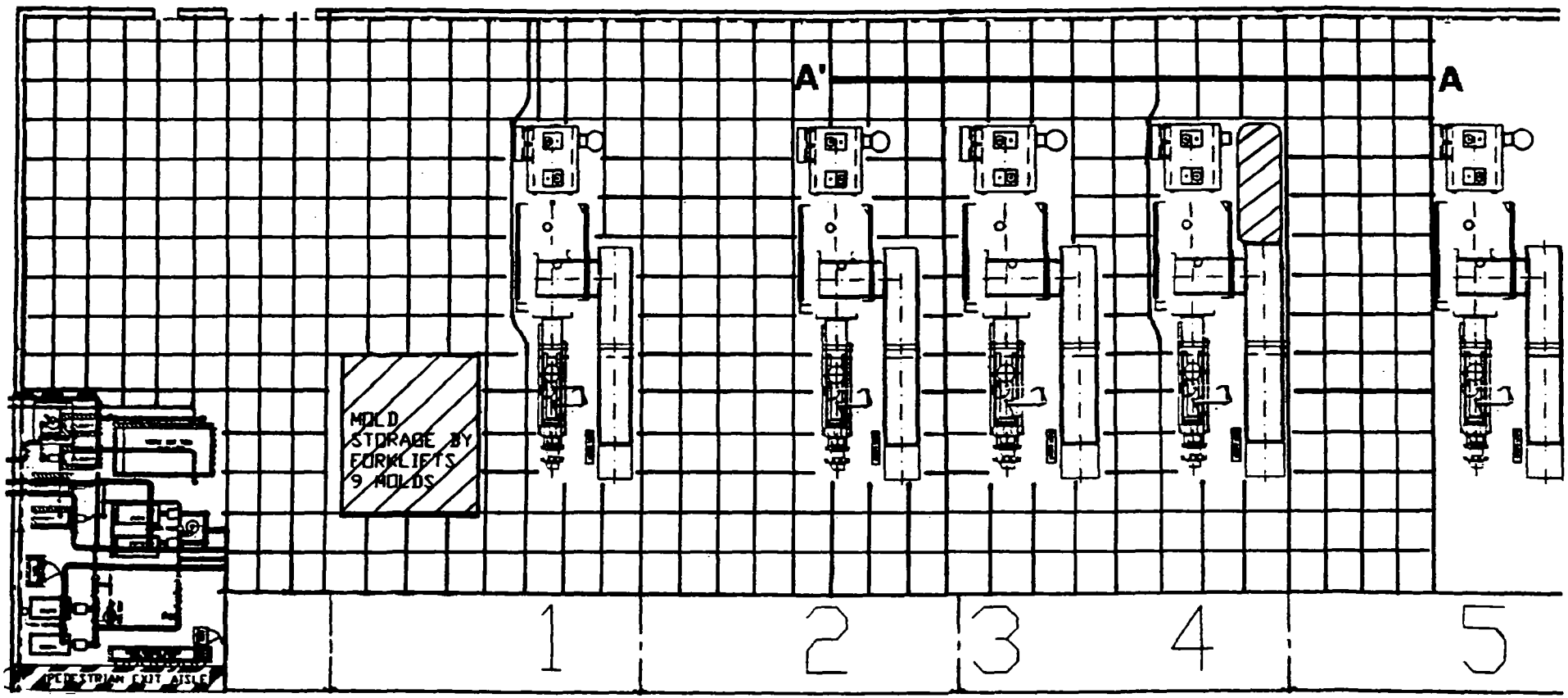
The storage and parking area west of Building 47 was scanned with GPR to detect any underground storage tanks and to map underground utilities. 47 ground penetrating radar survey lines were conducted in this area. A GPR depth setting of 10 feet was set to obtain maximum utility information at the site. The 10-foot depth was also sufficient to detect underground storage tanks.

Figure 2 shows the location and approximate depth of the underground utilities located by GPR. GPR transects E-E', F-F', and G-G' show typical underground utility (pipe) anomalies in the subsurface data.

Building 40A

The void in the area around the guard posts in Building 40A was mapped by 20 ground penetrating radar transects spaced 2.5 feet apart in two directions. A depth setting of 10 feet was set for the GPR instrument to detect near surface voids.

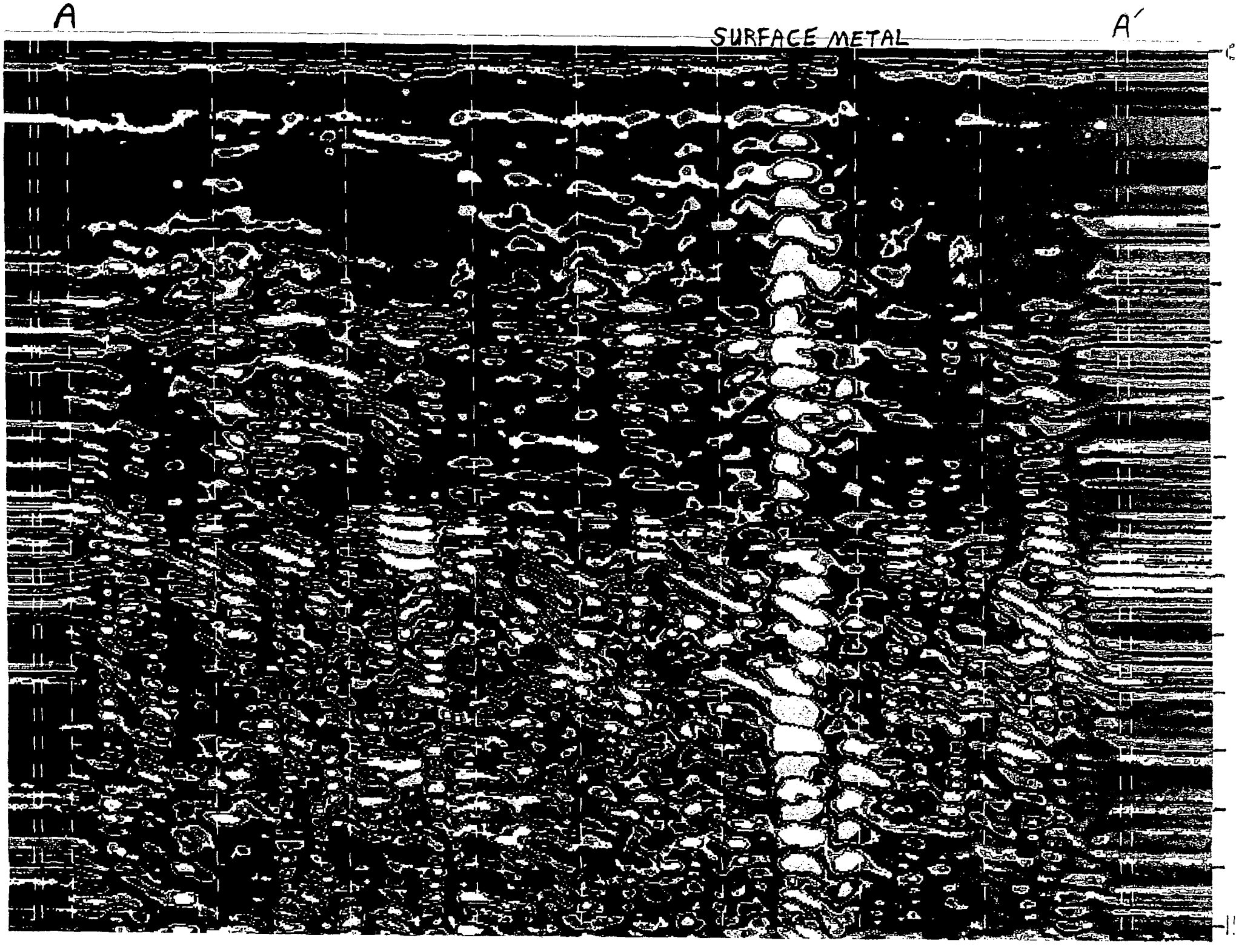
The approximate size and depth of the void under the concrete are shown on Figure 3. GPR profile H-H' shows the void anomaly (in white) under the concrete. GPR transect I-I' is located outside of the void area and shows no void anomaly present in the subsurface data.

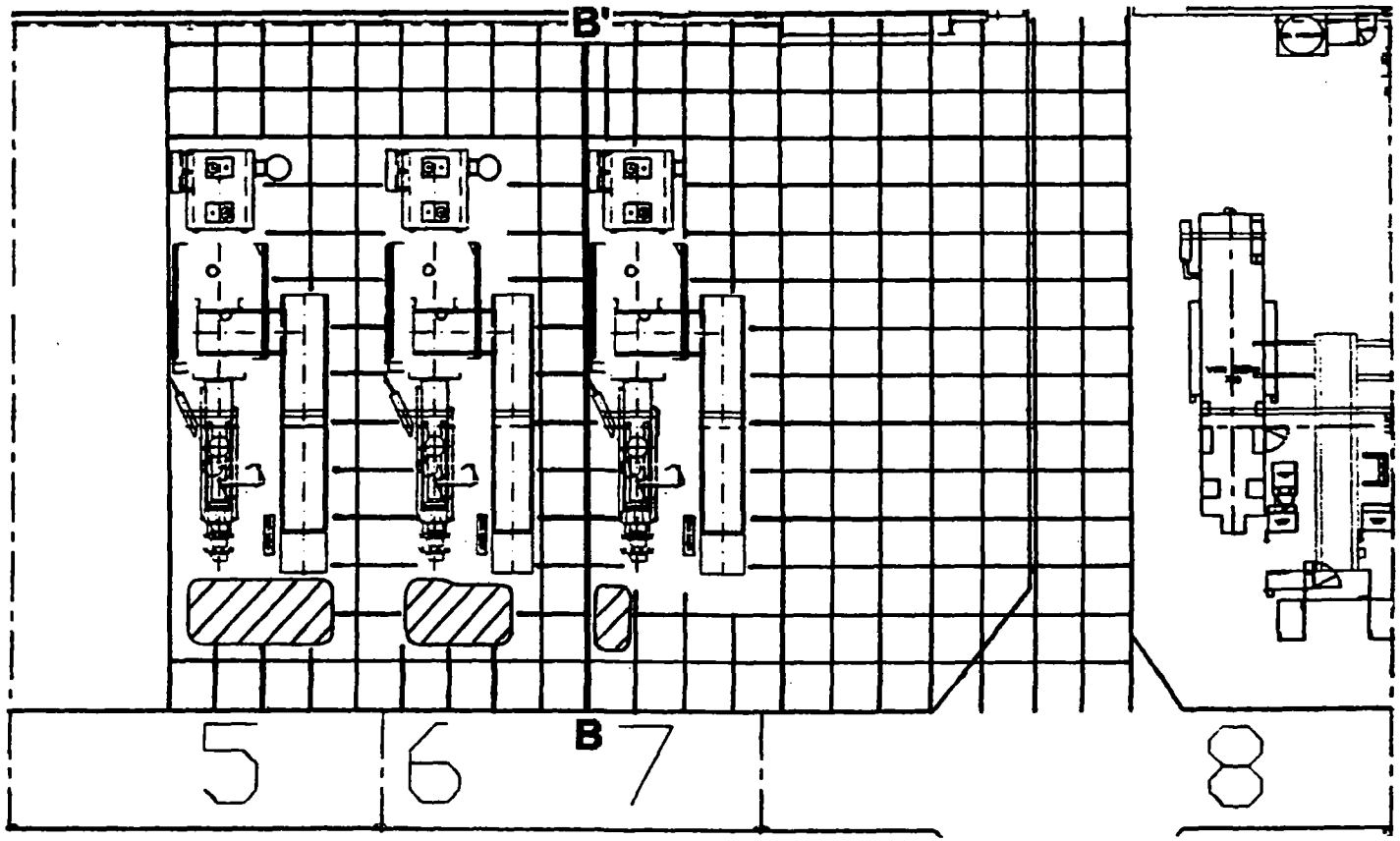


0 10 20
Approx. Scale in Feet

GPR Transect Location
A—A' Selected GPR Profile
Area not surveyed

Figure 1a. Building 53 Survey Area.

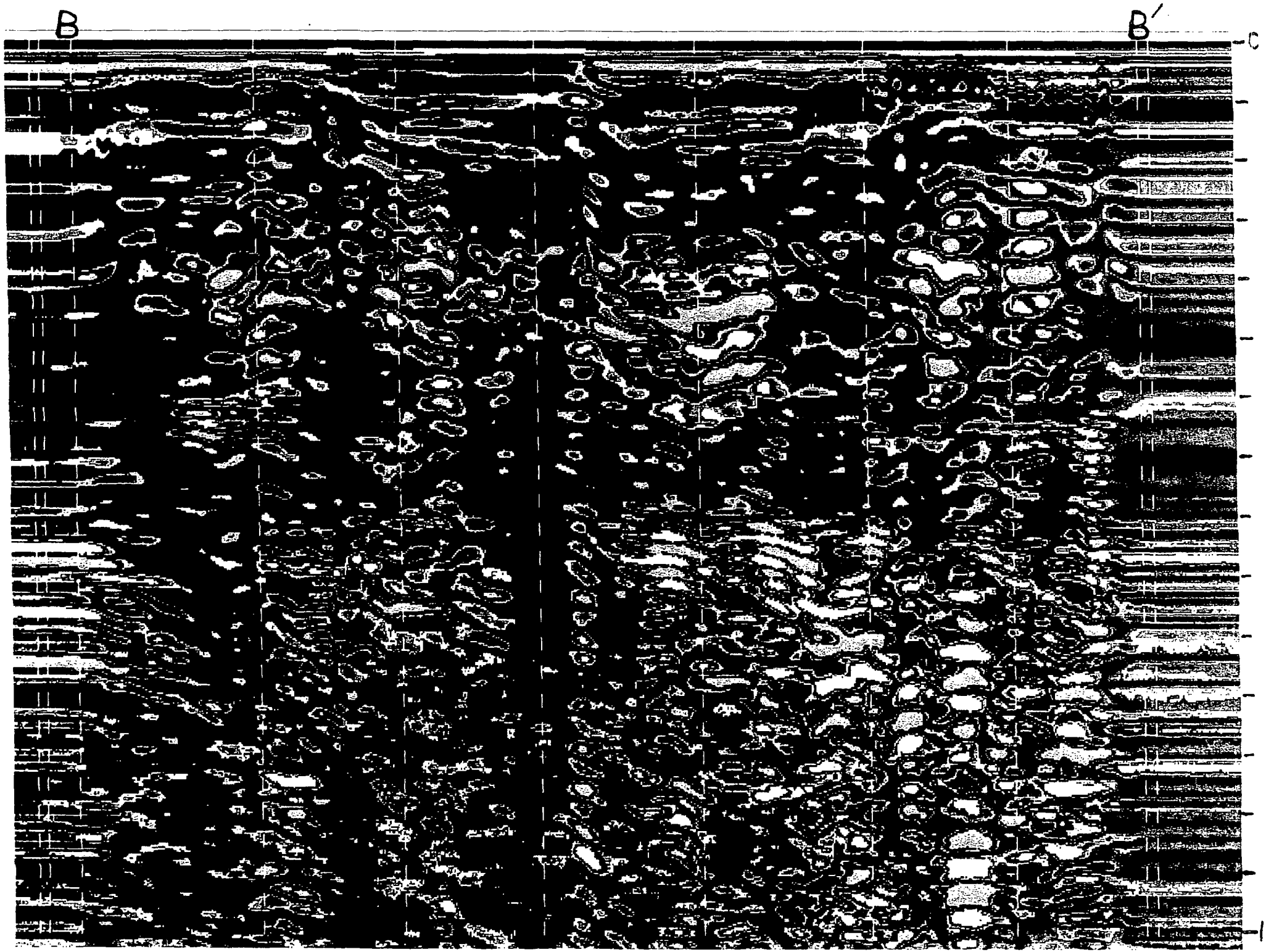

A
SURFACE METAL
A'

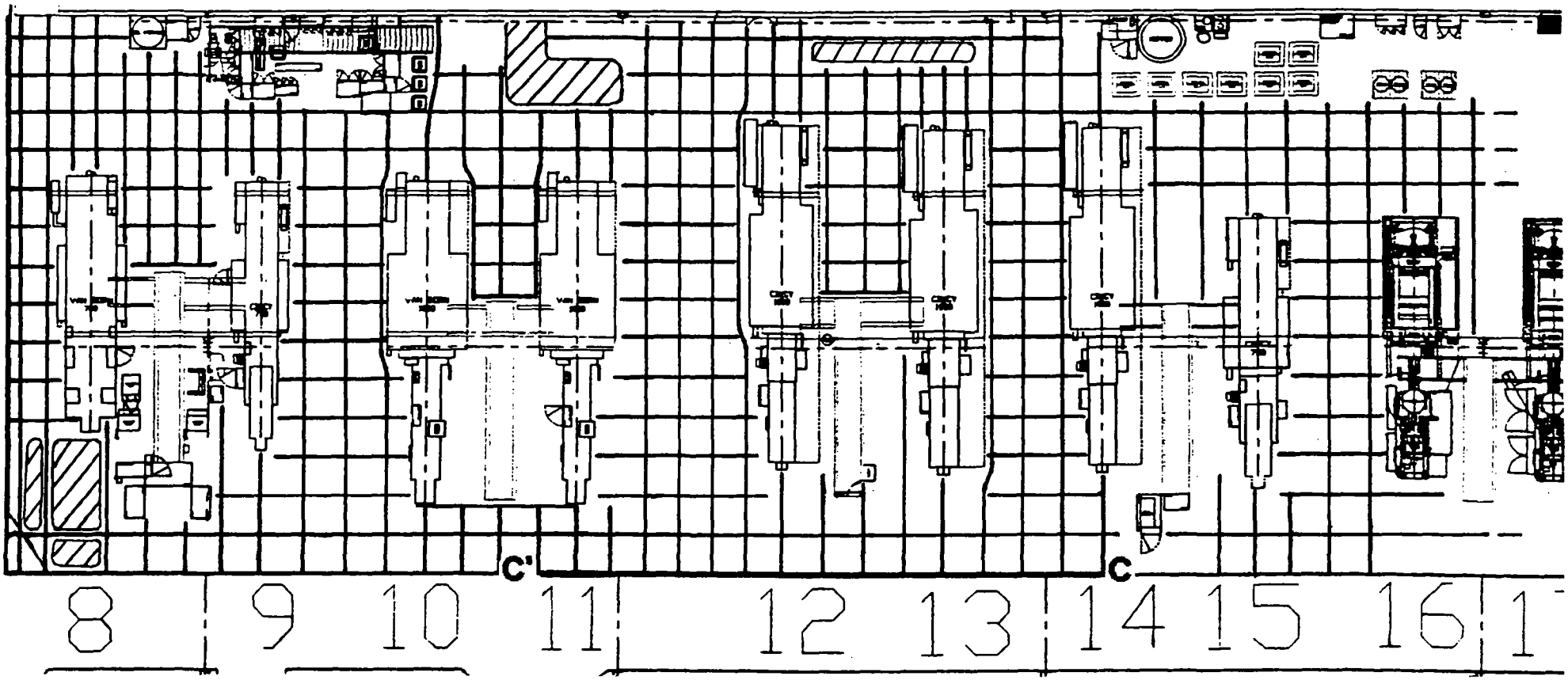


0 10 20
Approx. Scale in Feet

GPR Transect Location
B—B' Selected GPR Profile
Area not surveyed

Figure 1b. Building 53 Survey Area.

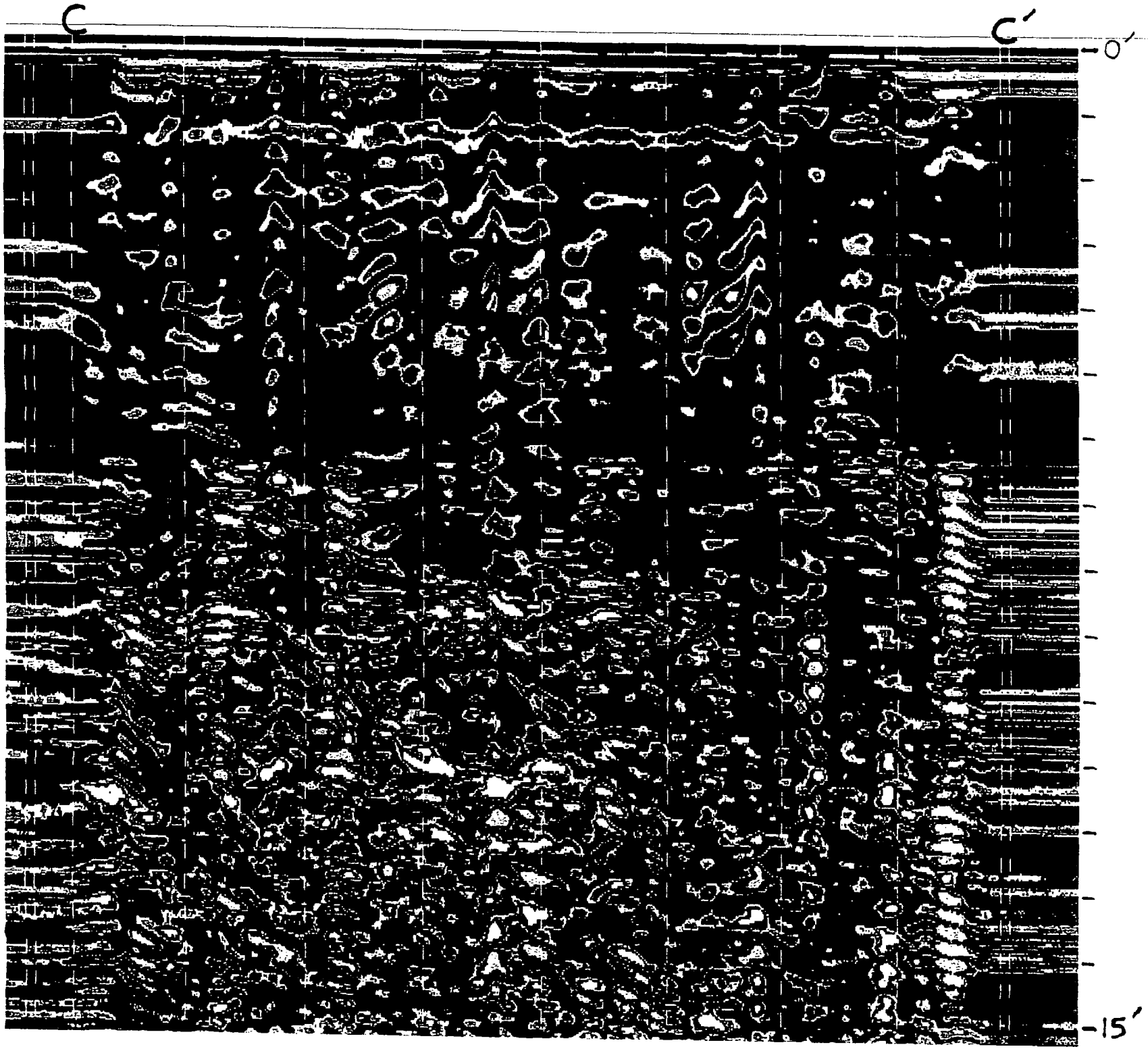

B
B'

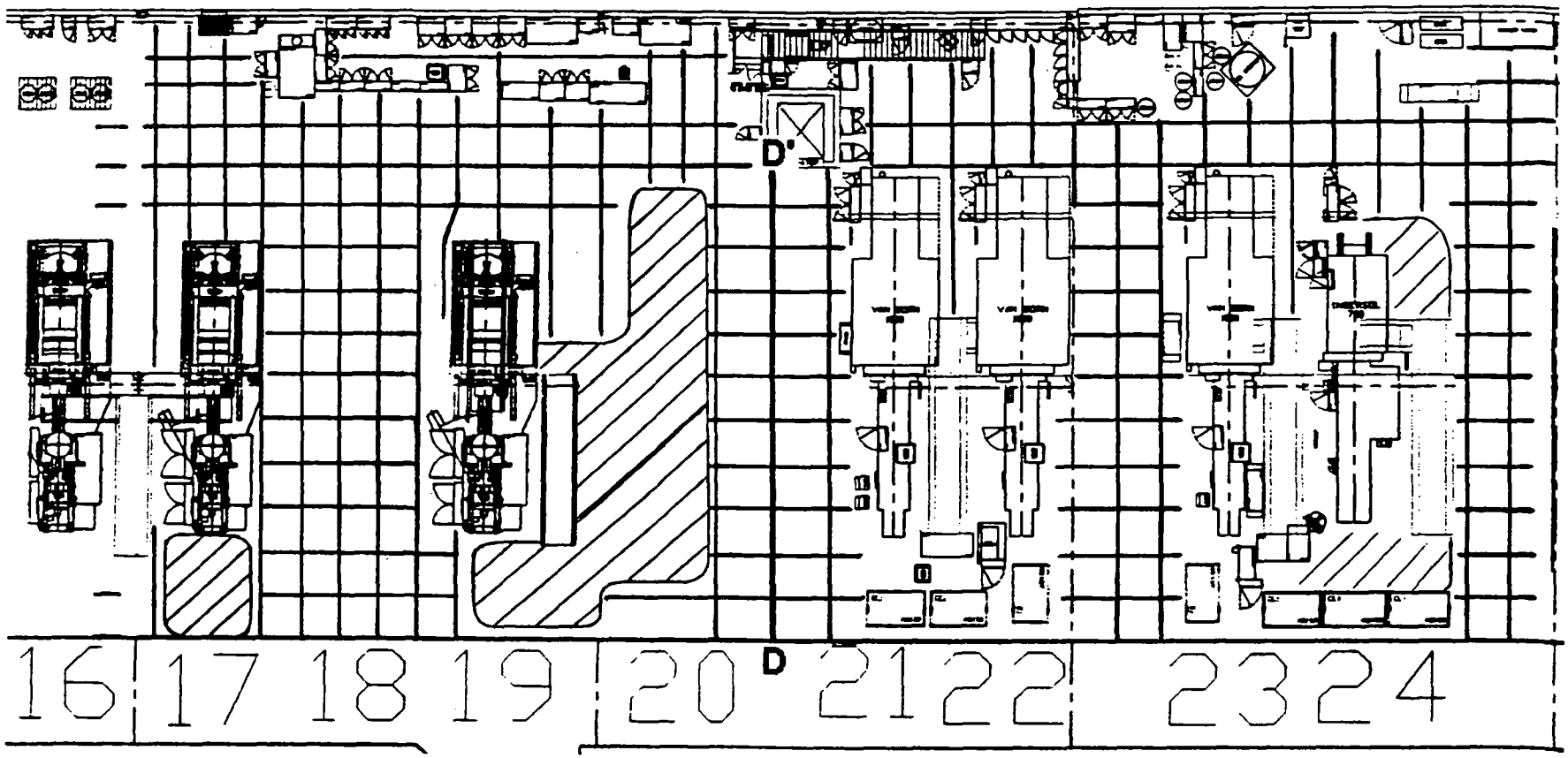


0 10 20
Approx. Scale in Feet

GPR Transect Location
C—C' Selected GPR Profile
Area not surveyed

Figure 1c. Building 53 Survey Area.

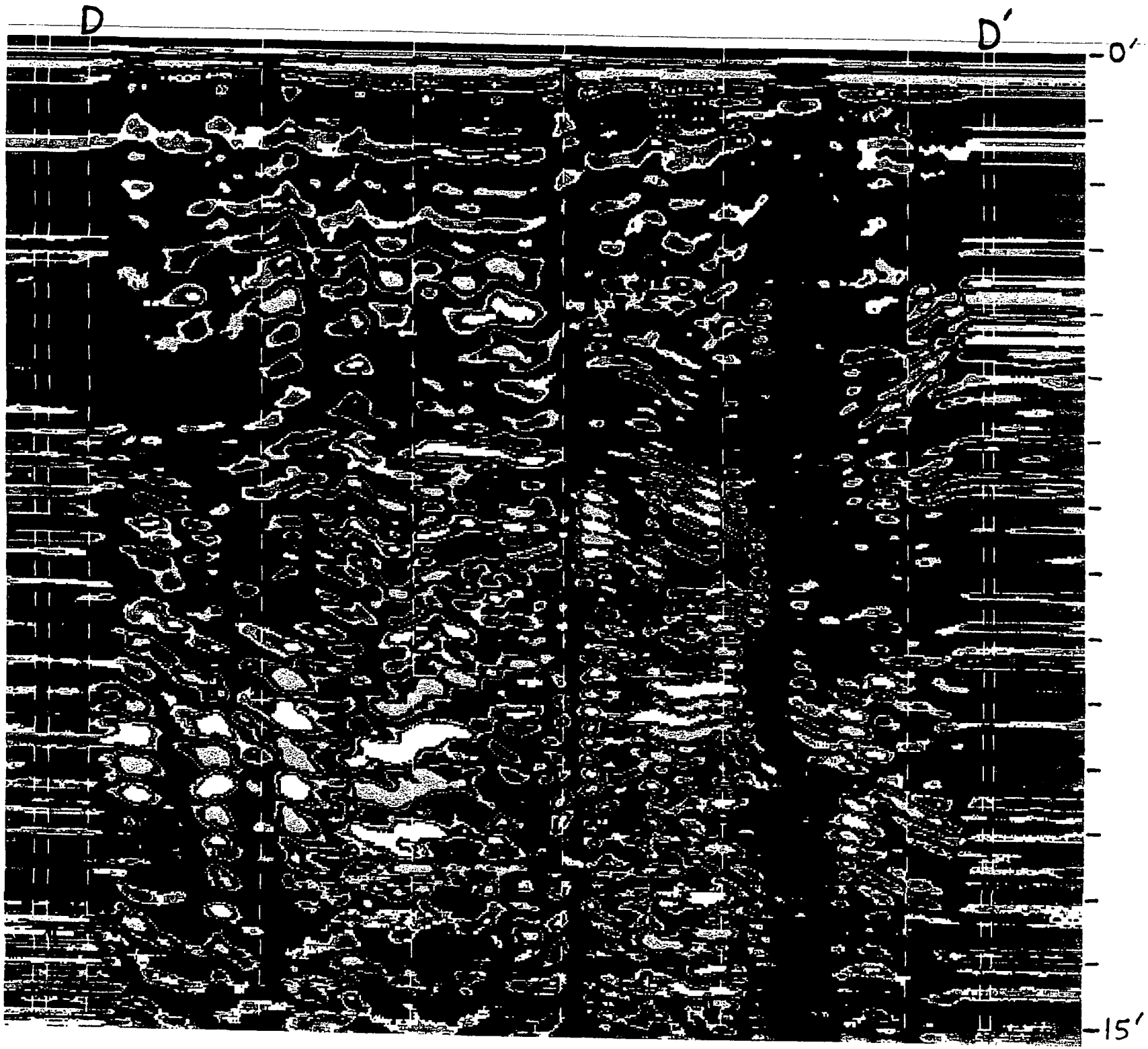

C
C′
0′
15′



0 10 20
Approx. Scale in Feet

GPR Transect Location
D—D' Selected GPR Profile
Area not surveyed

Figure 1d. Building 53 Survey Area.


D
D′
0′
15′

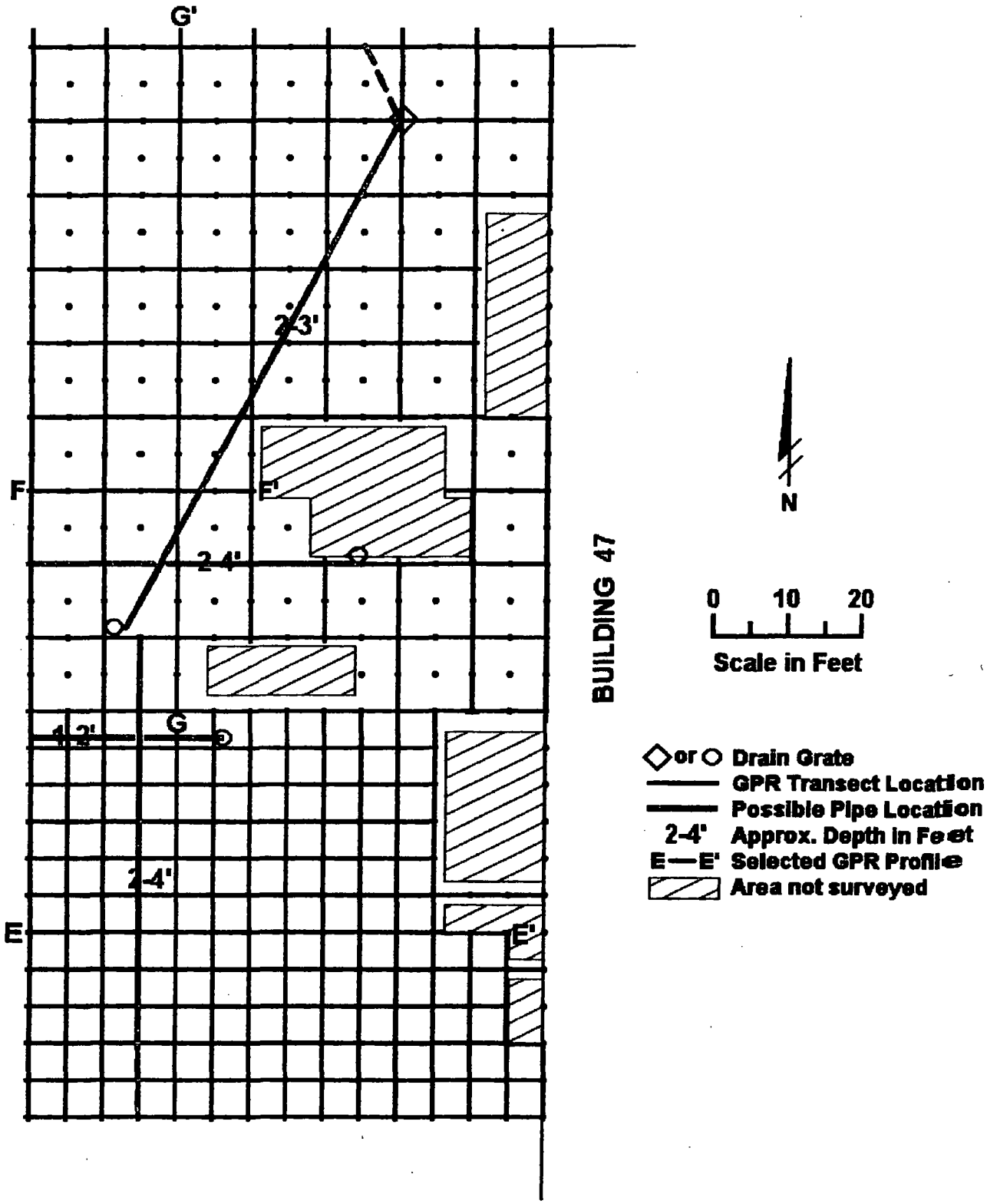
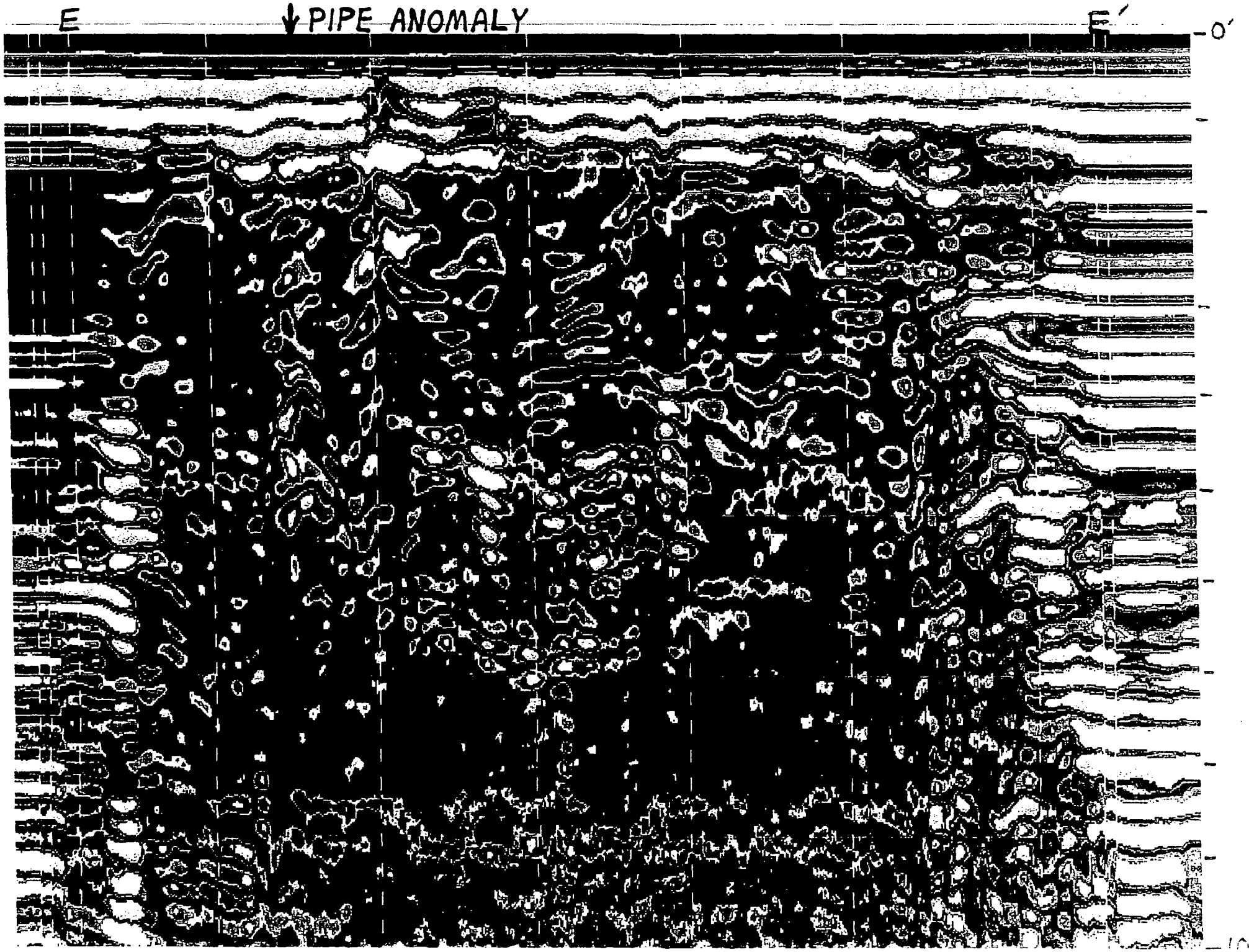
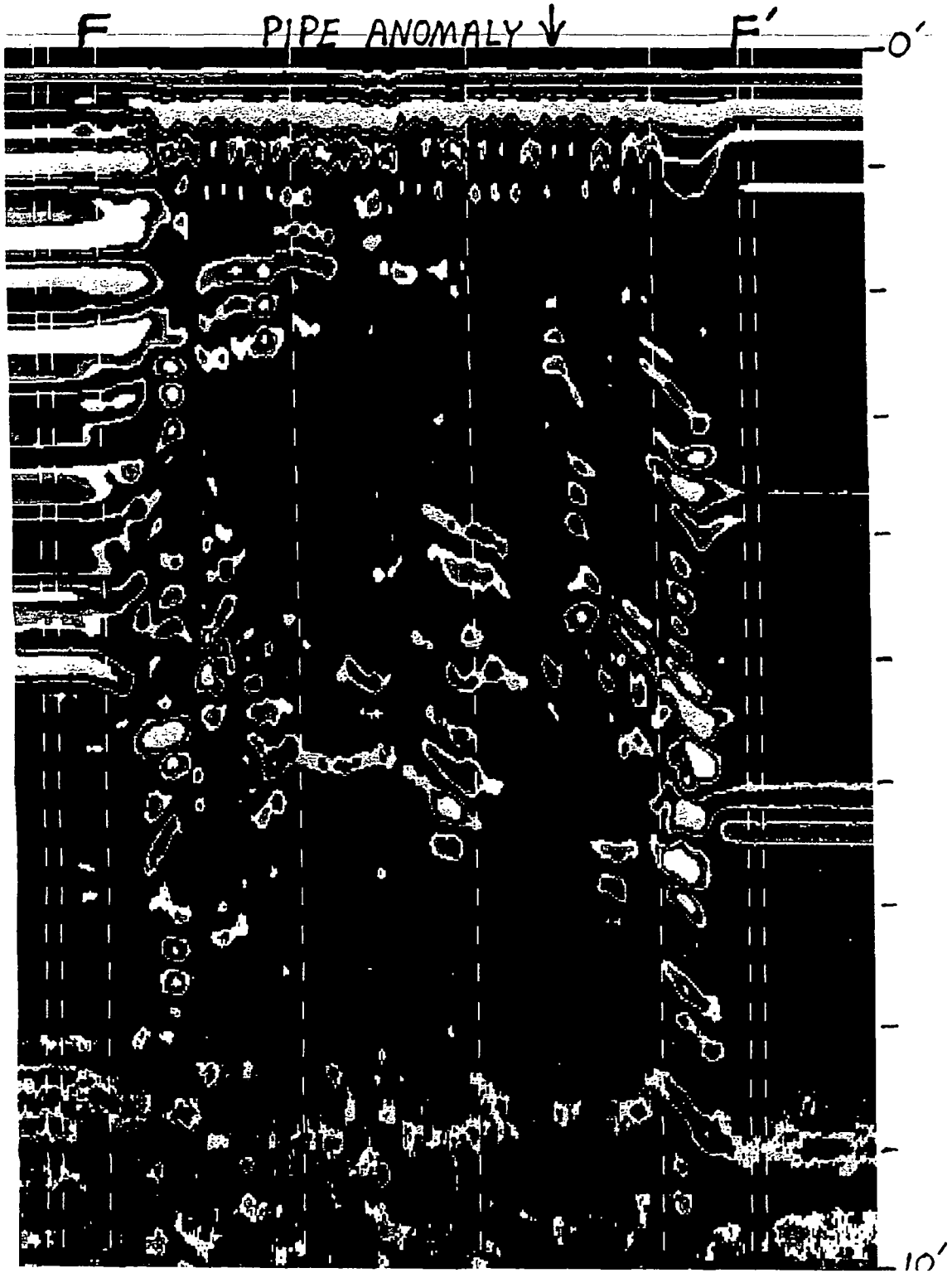
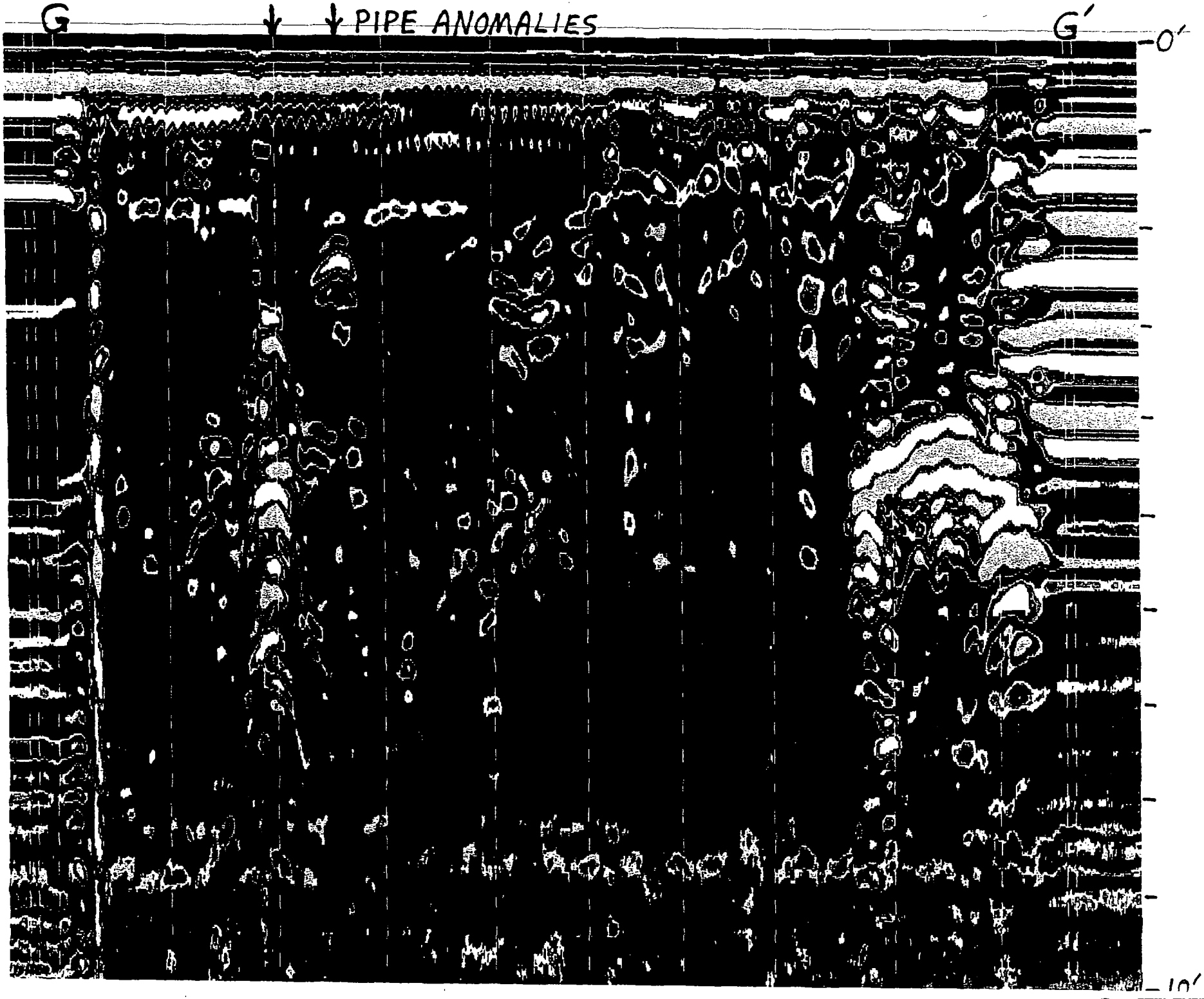


Figure 2. Building 47 Survey Area.


E
PIPE ANOMALY
E'
0'
10'


F
PIPE ANOMALY
F'
0'
10'


G
PIPE ANOMALIES
G'
0'
10'

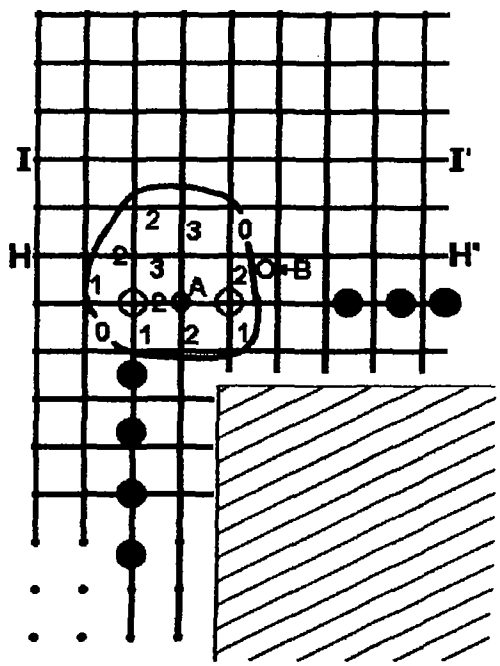
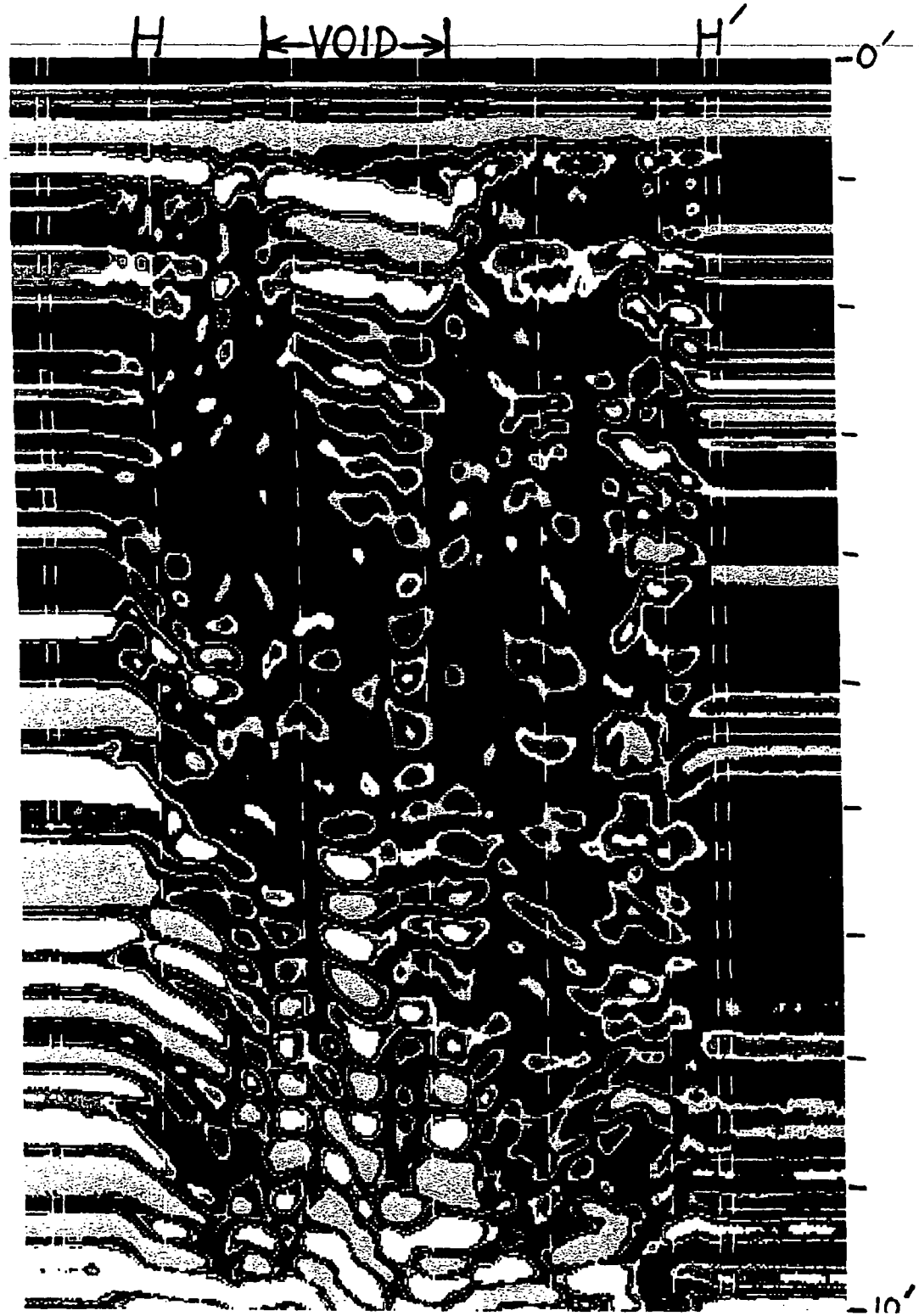
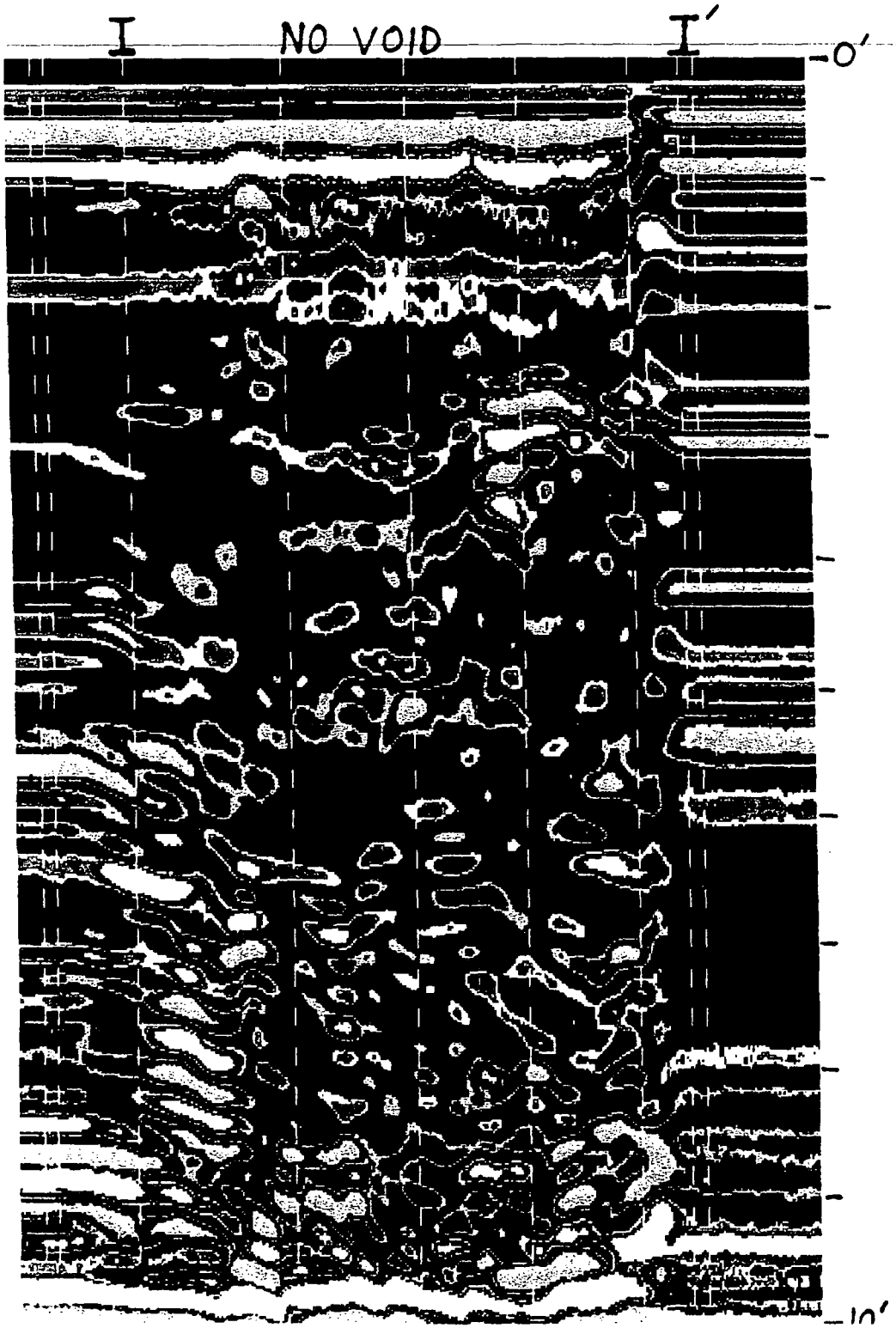


Figure 3. Building 40A Survey Area.


H
VOID
H′
0′
10′


I
NO VOID
I′
0′
10′

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-8S

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914763

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014763A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	50		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914760

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014760A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 59.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	30		U
75-01-4	Vinyl Chloride	59		U
75-00-3	Chloroethane	30		U
75-09-2	Methylene Chloride	590	33	JB
75-35-4	1,1-Dichloroethene	44		U
75-34-3	1,1-Dichloroethane	30	34	
67-66-3	Chloroform	44		U
107-06-2	1,2-Dichloroethane	44		U
71-55-6	1,1,1-Trichloroethane	44	1400	
56-23-5	Carbon Tetrachloride	59		U
75-27-4	Bromodichloromethane	30		U
10061-01-5	cis-1,3-Dichloropropene	30		U
79-01-6	Trichloroethene	44	960	
124-48-1	Dibromochloromethane	30		U
79-00-5	1,1,2-Trichloroethane	44		U
71-43-2	Benzene	44		U
10061-02-6	trans-1,3-Dichloropropene	44		U
75-25-2	Bromoform	30		U
127-18-4	Tetrachloroethene	44	2900	E
79-34-5	1,1,2,2-Tetrachloroethane	30		U
108-88-3	Toluene	44		U
108-90-7	Chlorobenzene	30		U
100-41-4	Ethylbenzene	30		U
100-42-5	Styrene	30		U
78-87-5	1,2-Dichloropropane	44		U
74-87-3	Chloromethane	59		U
75-15-0	Carbon disulfide	30		U
67-64-1	Acetone	300		U
108-10-1	4-Methyl-2-pentanone	120		U
591-78-6	2-hexanone	120		U
78-93-3	2-butanone	180		U
156-60-5	trans-1,2-Dichloroethene	44		U
156-59-2	cis-1,2-Dichloroethene	30	890	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914760

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014760A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 59.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	30		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914760

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014760A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	84		U
75-01-4	Vinyl Chloride	170		U
75-00-3	Chloroethane	84		U
75-09-2	Methylene Chloride	2500	130	DJB
75-35-4	1,1-Dichloroethene	130		U
75-34-3	1,1-Dichloroethane	84		U
67-66-3	Chloroform	130		U
107-06-2	1,2-Dichloroethane	130		U
71-55-6	1,1,1-Trichloroethane	130	1200	D
56-23-5	Carbon Tetrachloride	170		U
75-27-4	Bromodichloromethane	84		U
10061-01-5	cis-1,3-Dichloropropene	84		U
79-01-6	Trichloroethene	130	850	D
124-48-1	Dibromochloromethane	84		U
79-00-5	1,1,2-Trichloroethane	130		U
71-43-2	Benzene	130		U
10061-02-6	trans-1,3-Dichloropropene	130		U
75-25-2	Bromoform	84		U
127-18-4	Tetrachloroethene	130	2300	D
79-34-5	1,1,2,2-Tetrachloroethane	84		U
108-88-3	Toluene	130		U
108-90-7	Chlorobenzene	84		U
100-41-4	Ethylbenzene	84		U
100-42-5	Styrene	84		U
78-87-5	1,2-Dichloropropane	130		U
74-87-3	Chloromethane	170		U
75-15-0	Carbon disulfide	84		U
67-64-1	Acetone	840		U
108-10-1	4-Methyl-2-pentanone	330		U
591-78-6	2-hexanone	330		U
78-93-3	2-butanone	500		U
156-60-5	trans-1,2-Dichloroethene	130		U
156-59-2	cis-1,2-Dichloroethene	84	850	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914760

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014760A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	84		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DLMS

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914748

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014748B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	84	770	
75-01-4	Vinyl Chloride	170	650	
75-00-3	Chloroethane	84	790	
75-09-2	Methylene Chloride	2500	850	JB
75-35-4	1,1-Dichloroethene	130	820	
75-34-3	1,1-Dichloroethane	84	840	
67-66-3	Chloroform	130	790	
107-06-2	1,2-Dichloroethane	130	870	
71-55-6	1,1,1-Trichloroethane	130	1900	
56-23-5	Carbon Tetrachloride	170	840	
75-27-4	Bromodichloromethane	84	880	
10061-01-5	cis-1,3-Dichloropropene	84	830	
79-01-6	Trichloroethene	130	1800	
124-48-1	Dibromochloromethane	84	870	
79-00-5	1,1,2-Trichloroethane	130	830	
71-43-2	Benzene	130	800	
10061-02-6	trans-1,3-Dichloropropene	130	510	
75-25-2	Bromoform	84	880	
127-18-4	Tetrachloroethene	130	2800	
79-34-5	1,1,2,2-Tetrachloroethane	84	890	
108-88-3	Toluene	130	900	
108-90-7	Chlorobenzene	84	880	
100-41-4	Ethylbenzene	84	900	
100-42-5	Styrene	84	860	
78-87-5	1,2-Dichloropropane	130	850	
74-87-3	Chloromethane	170	730	
75-15-0	Carbon disulfide	84	780	
67-64-1	Acetone	840	3800	B
108-10-1	4-Methyl-2-pentanone	330	3900	
591-78-6	2-hexanone	330	3900	
78-93-3	2-butanone	500	4000	B
156-60-5	trans-1,2-Dichloroethene	130	820	
156-59-2	cis-1,2-Dichloroethene	84	1600	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DLMS

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914748

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014748B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	84	2800	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DLMSD

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914749

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014749B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	84	660	
75-01-4	Vinyl Chloride	170	670	
75-00-3	Chloroethane	84	770	
75-09-2	Methylene Chloride	2500	800	JB
75-35-4	1,1-Dichloroethene	130	730	
75-34-3	1,1-Dichloroethane	84	740	
67-66-3	Chloroform	130	770	
107-06-2	1,2-Dichloroethane	130	820	
71-55-6	1,1,1-Trichloroethane	130	1800	
56-23-5	Carbon Tetrachloride	170	740	
75-27-4	Bromodichloromethane	84	690	
10061-01-5	cis-1,3-Dichloropropene	84	680	
79-01-6	Trichloroethene	130	1600	
124-48-1	Dibromochloromethane	84	750	
79-00-5	1,1,2-Trichloroethane	130	750	
71-43-2	Benzene	130	770	
10061-02-6	trans-1,3-Dichloropropene	130	640	
75-25-2	Bromoform	84	710	
127-18-4	Tetrachloroethene	130	2600	
79-34-5	1,1,2,2-Tetrachloroethane	84	760	
108-88-3	Toluene	130	740	
108-90-7	Chlorobenzene	84	770	
100-41-4	Ethylbenzene	84	770	
100-42-5	Styrene	84	740	
78-87-5	1,2-Dichloropropane	130	720	
74-87-3	Chloromethane	170	740	
75-15-0	Carbon disulfide	84	730	
67-64-1	Acetone	840	3600	B
108-10-1	4-Methyl-2-pentanone	330	3300	
591-78-6	2-hexanone	330	3100	
78-93-3	2-butanone	500	4100	B
156-60-5	trans-1,2-Dichloroethene	130	720	
156-59-2	cis-1,2-Dichloroethene	84	1500	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DLMSD

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914749

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014749B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	84	2400	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-3

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914756

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014756B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 17.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	8		U
75-01-4	Vinyl Chloride	17		U
75-00-3	Chloroethane	8		U
75-09-2	Methylene Chloride	170	24	JB
75-35-4	1,1-Dichloroethene	13	8	J
75-34-3	1,1-Dichloroethane	8	11	
67-66-3	Chloroform	13		U
107-06-2	1,2-Dichloroethane	13	10	J
71-55-6	1,1,1-Trichloroethane	13	63	
56-23-5	Carbon Tetrachloride	17		U
75-27-4	Bromodichloromethane	8		U
10061-01-5	cis-1,3-Dichloropropene	8		U
79-01-6	Trichloroethene	13	3800	E
124-48-1	Dibromochloromethane	8		U
79-00-5	1,1,2-Trichloroethane	13		U
71-43-2	Benzene	13		U
10061-02-6	trans-1,3-Dichloropropene	13		U
75-25-2	Bromoform	8		U
127-18-4	Tetrachloroethene	13		U
79-34-5	1,1,2,2-Tetrachloroethane	8		U
108-88-3	Toluene	13		U
108-90-7	Chlorobenzene	8		U
100-41-4	Ethylbenzene	8		U
100-42-5	Styrene	8		U
78-87-5	1,2-Dichloropropane	13		U
74-87-3	Chloromethane	17		U
75-15-0	Carbon disulfide	8		U
67-64-1	Acetone	85	99	B
108-10-1	4-Methyl-2-pentanone	34		U
591-78-6	2-hexanone	34		U
78-93-3	2-butanone	51		U
156-60-5	trans-1,2-Dichloroethene	13	9	J
156-59-2	cis-1,2-Dichloroethene	8	700	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-3

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914756

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014756B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 17.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	8		U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-3DL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 915756

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14756B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	84		U
75-01-4	Vinyl Chloride	170		U
75-00-3	Chloroethane	84		U
75-09-2	Methylene Chloride	2500	150	DJB
75-35-4	1,1-Dichloroethene	130		U
75-34-3	1,1-Dichloroethane	84		U
67-66-3	Chloroform	130		U
107-06-2	1,2-Dichloroethane	130		U
71-55-6	1,1,1-Trichloroethane	130	55	DJ
56-23-5	Carbon Tetrachloride	170		U
75-27-4	Bromodichloromethane	84		U
10061-01-5	cis-1,3-Dichloropropene	84		U
79-01-6	Trichloroethene	130	3000	D
124-48-1	Dibromochloromethane	84		U
79-00-5	1,1,2-Trichloroethane	130		U
71-43-2	Benzene	130		U
10061-02-6	trans-1,3-Dichloropropene	130		U
75-25-2	Bromoform	84		U
127-18-4	Tetrachloroethene	130		U
79-34-5	1,1,2,2-Tetrachloroethane	84		U
108-88-3	Toluene	130		U
108-90-7	Chlorobenzene	84		U
100-41-4	Ethylbenzene	84		U
100-42-5	Styrene	84		U
78-87-5	1,2-Dichloropropane	130		U
74-87-3	Chloromethane	170		U
75-15-0	Carbon disulfide	84		U
67-64-1	Acetone	840	260	DJB
108-10-1	4-Methyl-2-pentanone	330		U
591-78-6	2-hexanone	330		U
78-93-3	2-butanone	500	71	DJB
156-60-5	trans-1,2-Dichloroethene	130		U
156-59-2	cis-1,2-Dichloroethene	84	590	D

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-3DL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 915756

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14756B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	84		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-6

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914762

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014762A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	25		U
75-01-4	Vinyl Chloride	50		U
75-00-3	Chloroethane	25		U
75-09-2	Methylene Chloride	750	38	JB
75-35-4	1,1-Dichloroethene	38	130	
75-34-3	1,1-Dichloroethane	25	460	
67-66-3	Chloroform	38		U
107-06-2	1,2-Dichloroethane	38		U
71-55-6	1,1,1-Trichloroethane	38	750	
56-23-5	Carbon Tetrachloride	50		U
75-27-4	Bromodichloromethane	25		U
10061-01-5	cis-1,3-Dichloropropene	25		U
79-01-6	Trichloroethene	38	940	
124-48-1	Dibromochloromethane	25		U
79-00-5	1,1,2-Trichloroethane	38		U
71-43-2	Benzene	38		U
10061-02-6	trans-1,3-Dichloropropene	38		U
75-25-2	Bromoform	25		U
127-18-4	Tetrachloroethene	38		U
79-34-5	1,1,2,2-Tetrachloroethane	25		U
108-88-3	Toluene	38		U
108-90-7	Chlorobenzene	25		U
100-41-4	Ethylbenzene	25		U
100-42-5	Styrene	25		U
78-87-5	1,2-Dichloropropane	38		U
74-87-3	Chloromethane	50		U
75-15-0	Carbon disulfide	25		U
67-64-1	Acetone	250	110	JB
108-10-1	4-Methyl-2-pentanone	100		U
591-78-6	2-hexanone	100		U
78-93-3	2-butanone	150	33	J
156-60-5	trans-1,2-Dichloroethene	38		U
156-59-2	cis-1,2-Dichloroethene	25	130	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-6

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914762

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014762A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	25		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWC-3

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914757

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014757B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	10	2	JB
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8	0.7	J
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8	24	
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8	1	
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	2	JB
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5	4	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWC-3

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914757

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014757B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-10I

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914769

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014769B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 250.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	120		U
75-01-4	Vinyl Chloride	250		U
75-00-3	Chloroethane	120		U
75-09-2	Methylene Chloride	3800	200	JB
75-35-4	1,1-Dichloroethene	190		U
75-34-3	1,1-Dichloroethane	120		U
67-66-3	Chloroform	190		U
107-06-2	1,2-Dichloroethane	190		U
71-55-6	1,1,1-Trichloroethane	190		U
56-23-5	Carbon Tetrachloride	250		U
75-27-4	Bromodichloromethane	120		U
10061-01-5	cis-1,3-Dichloropropene	120		U
79-01-6	Trichloroethene	190	4500	
124-48-1	Dibromochloromethane	120		U
79-00-5	1,1,2-Trichloroethane	190		U
71-43-2	Benzene	190		U
10061-02-6	trans-1,3-Dichloropropene	190		U
75-25-2	Bromoform	120		U
127-18-4	Tetrachloroethene	190		U
79-34-5	1,1,2,2-Tetrachloroethane	120		U
108-88-3	Toluene	190		U
108-90-7	Chlorobenzene	120		U
100-41-4	Ethylbenzene	120		U
100-42-5	Styrene	120		U
78-87-5	1,2-Dichloropropane	190		U
74-87-3	Chloromethane	250		U
75-15-0	Carbon disulfide	120		U
67-64-1	Acetone	1200	530	JB
108-10-1	4-Methyl-2-pentanone	500		U
591-78-6	2-hexanone	500		U
78-93-3	2-butanone	750		U
156-60-5	trans-1,2-Dichloroethene	190		U
156-59-2	cis-1,2-Dichloroethene	120	2200	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-10I

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914769

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014769B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 250.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	120		U

FORM I VOA

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12D

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914751

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014751A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 4.2

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	2		U
75-01-4	Vinyl Chloride	4		U
75-00-3	Chloroethane	2		U
75-09-2	Methylene Chloride	63	5	JB
75-35-4	1,1-Dichloroethene	3	5	
75-34-3	1,1-Dichloroethane	2	3	
67-66-3	Chloroform	3		U
107-06-2	1,2-Dichloroethane	3		U
71-55-6	1,1,1-Trichloroethane	3	33	
56-23-5	Carbon Tetrachloride	4		U
75-27-4	Bromodichloromethane	2		U
10061-01-5	cis-1,3-Dichloropropene	2		U
79-01-6	Trichloroethene	3	35	
124-48-1	Dibromochloromethane	2		U
79-00-5	1,1,2-Trichloroethane	3		U
71-43-2	Benzene	3		U
10061-02-6	trans-1,3-Dichloropropene	3		U
75-25-2	Bromoform	2		U
127-18-4	Tetrachloroethene	3	66	
79-34-5	1,1,2,2-Tetrachloroethane	2		U
108-88-3	Toluene	3		U
108-90-7	Chlorobenzene	2		U
100-41-4	Ethylbenzene	2		U
100-42-5	Styrene	2		U
78-87-5	1,2-Dichloropropane	3		U
74-87-3	Chloromethane	4		U
75-15-0	Carbon disulfide	2		U
67-64-1	Acetone	21	9	JB
108-10-1	4-Methyl-2-pentanone	8		U
591-78-6	2-hexanone	8		U
78-93-3	2-butanone	13		U
156-60-5	trans-1,2-Dichloroethene	3		U
156-59-2	cis-1,2-Dichloroethene	2	16	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12D

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914751

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014751A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 4.2

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	2		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12I

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914750

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014750B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 12.5

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	6		U
75-01-4	Vinyl Chloride	12		U
75-00-3	Chloroethane	6		U
75-09-2	Methylene Chloride	120	14	JB
75-35-4	1,1-Dichloroethene	9	44	
75-34-3	1,1-Dichloroethane	6	16	
67-66-3	Chloroform	9		U
107-06-2	1,2-Dichloroethane	9		U
71-55-6	1,1,1-Trichloroethane	9	400	E
56-23-5	Carbon Tetrachloride	12		U
75-27-4	Bromodichloromethane	6		U
10061-01-5	cis-1,3-Dichloropropene	6		U
79-01-6	Trichloroethene	9	2000	E
124-48-1	Dibromochloromethane	6		U
79-00-5	1,1,2-Trichloroethane	9		U
71-43-2	Benzene	9		U
10061-02-6	trans-1,3-Dichloropropene	9		U
75-25-2	Bromoform	6		U
127-18-4	Tetrachloroethene	9		U
79-34-5	1,1,2,2-Tetrachloroethane	6		U
108-88-3	Toluene	9		U
108-90-7	Chlorobenzene	6		U
100-41-4	Ethylbenzene	6		U
100-42-5	Styrene	6		U
78-87-5	1,2-Dichloropropane	9		U
74-87-3	Chloromethane	12		U
75-15-0	Carbon disulfide	6		U
67-64-1	Acetone	62		U
108-10-1	4-Methyl-2-pentanone	25		U
591-78-6	2-hexanone	25		U
78-93-3	2-butanone	38		U
156-60-5	trans-1,2-Dichloroethene	9	10	
156-59-2	cis-1,2-Dichloroethene	6	430	E

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12I

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914750

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014750B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 12.5

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	6		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12IDL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914750

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14750A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 89.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	44		U
75-01-4	Vinyl Chloride	89		U
75-00-3	Chloroethane	44		U
75-09-2	Methylene Chloride	1300	60	DJB
75-35-4	1,1-Dichloroethene	67	27	DJ
75-34-3	1,1-Dichloroethane	44		U
67-66-3	Chloroform	67		U
107-06-2	1,2-Dichloroethane	67		U
71-55-6	1,1,1-Trichloroethane	67	260	D
56-23-5	Carbon Tetrachloride	89		U
75-27-4	Bromodichloromethane	44		U
10061-01-5	cis-1,3-Dichloropropene	44		U
79-01-6	Trichloroethene	67	1300	D
124-48-1	Dibromochloromethane	44		U
79-00-5	1,1,2-Trichloroethane	67		U
71-43-2	Benzene	67		U
10061-02-6	trans-1,3-Dichloropropene	67		U
75-25-2	Bromoform	44		U
127-18-4	Tetrachloroethene	67		U
79-34-5	1,1,2,2-Tetrachloroethane	44		U
108-88-3	Toluene	67		U
108-90-7	Chlorobenzene	44		U
100-41-4	Ethylbenzene	44		U
100-42-5	Styrene	44		U
78-87-5	1,2-Dichloropropane	67		U
74-87-3	Chloromethane	89		U
75-15-0	Carbon disulfide	44		U
67-64-1	Acetone	440	120	DJB
108-10-1	4-Methyl-2-pentanone	180		U
591-78-6	2-hexanone	180		U
78-93-3	2-butanone	270		U
156-60-5	trans-1,2-Dichloroethene	67		U
156-59-2	cis-1,2-Dichloroethene	44	350	D

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12IDL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914750

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14750A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 89.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	44		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-14I

Project: CR014759A54 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914759

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014759A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	0.9	JB
75-35-4	1,1-Dichloroethene	0.8	0.6	J
75-34-3	1,1-Dichloroethane	0.5	3	
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8	3	
56-23-5	Carbon Tetrachloride	1	0.4	J
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8	27	E
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8	2	
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	1	JB
108-10-1	4-Methyl-2-pentanone	2	0.7	J
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3	7	
156-60-5	trans-1,2-Dichloroethene	0.8	0.7	J
156-59-2	cis-1,2-Dichloroethene	0.5	12	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-14I

Project: CR014759A54 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914759

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014759A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-14IDL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914759

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14759B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 8.3

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	4		U
75-01-4	Vinyl Chloride	8		U
75-00-3	Chloroethane	4		U
75-09-2	Methylene Chloride	120	10	DJB
75-35-4	1,1-Dichloroethene	6		U
75-34-3	1,1-Dichloroethane	4	11	D
67-66-3	Chloroform	6		U
107-06-2	1,2-Dichloroethane	6		U
71-55-6	1,1,1-Trichloroethane	6	14	D
56-23-5	Carbon Tetrachloride	8		U
75-27-4	Bromodichloromethane	4		U
10061-01-5	cis-1,3-Dichloropropene	4		U
79-01-6	Trichloroethene	6	130	D
124-48-1	Dibromochloromethane	4		U
79-00-5	1,1,2-Trichloroethane	6		U
71-43-2	Benzene	6		U
10061-02-6	trans-1,3-Dichloropropene	6		U
75-25-2	Bromoform	4		U
127-18-4	Tetrachloroethene	6	11	D
79-34-5	1,1,2,2-Tetrachloroethane	4		U
108-88-3	Toluene	6		U
108-90-7	Chlorobenzene	4		U
100-41-4	Ethylbenzene	4		U
100-42-5	Styrene	4		U
78-87-5	1,2-Dichloropropane	6		U
74-87-3	Chloromethane	8		U
75-15-0	Carbon disulfide	4		U
67-64-1	Acetone	42		U
108-10-1	4-Methyl-2-pentanone	17		U
591-78-6	2-hexanone	17		U
78-93-3	2-butanone	25		U
156-60-5	trans-1,2-Dichloroethene	6	3	DJ
156-59-2	cis-1,2-Dichloroethene	4	55	D

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-14IDL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914759

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14759B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 8.3

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	4		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-16D

Project: RFA254, Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914761

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014761A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	12		U
75-01-4	Vinyl Chloride	25		U
75-00-3	Chloroethane	12		U
75-09-2	Methylene Chloride	380	18	JB
75-35-4	1,1-Dichloroethene	19	12	J
75-34-3	1,1-Dichloroethane	12	26	
67-66-3	Chloroform	19		U
107-06-2	1,2-Dichloroethane	19		U
71-55-6	1,1,1-Trichloroethane	19	290	
56-23-5	Carbon Tetrachloride	25		U
75-27-4	Bromodichloromethane	12		U
10061-01-5	cis-1,3-Dichloropropene	12		U
79-01-6	Trichloroethene	19	52	
124-48-1	Dibromochloromethane	12		U
79-00-5	1,1,2-Trichloroethane	19		U
71-43-2	Benzene	19		U
10061-02-6	trans-1,3-Dichloropropene	19		U
75-25-2	Bromoform	12		U
127-18-4	Tetrachloroethene	19	100	
79-34-5	1,1,2,2-Tetrachloroethane	12		U
108-88-3	Toluene	19		U
108-90-7	Chlorobenzene	12		U
100-41-4	Ethylbenzene	12		U
100-42-5	Styrene	12		U
78-87-5	1,2-Dichloropropane	19		U
74-87-3	Chloromethane	25		U
75-15-0	Carbon disulfide	12		U
67-64-1	Acetone	120	33	JB
108-10-1	4-Methyl-2-pentanone	50		U
591-78-6	2-hexanone	50		U
78-93-3	2-butanone	75		U
156-60-5	trans-1,2-Dichloroethene	19		U
156-59-2	cis-1,2-Dichloroethene	12	150	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-16D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914761

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014761A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	12		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-16DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914761

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014761A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 83.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	42		U
75-01-4	Vinyl Chloride	83		U
75-00-3	Chloroethane	42		U
75-09-2	Methylene Chloride	830	70	DJB
75-35-4	1,1-Dichloroethene	62		U
75-34-3	1,1-Dichloroethane	42	34	DJ
67-66-3	Chloroform	62		U
107-06-2	1,2-Dichloroethane	62		U
71-55-6	1,1,1-Trichloroethane	62	450	D
56-23-5	Carbon Tetrachloride	83		U
75-27-4	Bromodichloromethane	42		U
10061-01-5	cis-1,3-Dichloropropene	42		U
79-01-6	Trichloroethene	62		U
124-48-1	Dibromochloromethane	42		U
79-00-5	1,1,2-Trichloroethane	62		U
71-43-2	Benzene	62		U
10061-02-6	trans-1,3-Dichloropropene	62		U
75-25-2	Bromoform	42		U
127-18-4	Tetrachloroethene	62	140	D
79-34-5	1,1,2,2-Tetrachloroethane	42		U
108-88-3	Toluene	62		U
108-90-7	Chlorobenzene	42		U
100-41-4	Ethylbenzene	42		U
100-42-5	Styrene	42		U
78-87-5	1,2-Dichloropropane	62		U
74-87-3	Chloromethane	83		U
75-15-0	Carbon disulfide	42		U
67-64-1	Acetone	420		U
108-10-1	4-Methyl-2-pentanone	170		U
591-78-6	2-hexanone	170		U
78-93-3	2-butanone	250		U
156-60-5	trans-1,2-Dichloroethene	62		U
156-59-2	cis-1,2-Dichloroethene	42	190	D

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-16DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914761

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014761A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 83.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	42		U

FORM I VOA

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8D

Project: RFA254 | Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER | Lab Sample ID: 914766

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN014766B56.D

Level: (low/med) LOW | Date Received: 10/17/98

% Moisture: not dec. _____ | Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 4.2

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	2		U
75-01-4	Vinyl Chloride	4		U
75-00-3	Chloroethane	2		U
75-09-2	Methylene Chloride	42	3	JB
75-35-4	1,1-Dichloroethene	3	13	
75-34-3	1,1-Dichloroethane	2	48	
67-66-3	Chloroform	3		U
107-06-2	1,2-Dichloroethane	3	2	J
71-55-6	1,1,1-Trichloroethane	3	130	E
56-23-5	Carbon Tetrachloride	4		U
75-27-4	Bromodichloromethane	2		U
10061-01-5	cis-1,3-Dichloropropene	2		U
79-01-6	Trichloroethene	3	120	E
124-48-1	Dibromochloromethane	2		U
79-00-5	1,1,2-Trichloroethane	3		U
71-43-2	Benzene	3		U
10061-02-6	trans-1,3-Dichloropropene	3		U
75-25-2	Bromoform	2		U
127-18-4	Tetrachloroethene	3	20	
79-34-5	1,1,2,2-Tetrachloroethane	2		U
108-88-3	Toluene	3		U
108-90-7	Chlorobenzene	2		U
100-41-4	Ethylbenzene	2		U
100-42-5	Styrene	2		U
78-87-5	1,2-Dichloropropane	3		U
74-87-3	Chloromethane	4		U
75-15-0	Carbon disulfide	2		U
67-64-1	Acetone	21	7	JB
108-10-1	4-Methyl-2-pentanone	8		U
591-78-6	2-hexanone	8		U
78-93-3	2-butanone	13		U
156-60-5	trans-1,2-Dichloroethene	3		U
156-59-2	cis-1,2-Dichloroethene	2	22	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914766

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014766B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 4.2

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	2		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914766

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014766A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 7.1

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	4		U
75-01-4	Vinyl Chloride	7		U
75-00-3	Chloroethane	4		U
75-09-2	Methylene Chloride	110	6	DJB
75-35-4	1,1-Dichloroethene	5	12	D
75-34-3	1,1-Dichloroethane	4	40	D
67-66-3	Chloroform	5		U
107-06-2	1,2-Dichloroethane	5		U
71-55-6	1,1,1-Trichloroethane	5	94	D
56-23-5	Carbon Tetrachloride	7		U
75-27-4	Bromodichloromethane	4		U
10061-01-5	cis-1,3-Dichloropropene	4		U
79-01-6	Trichloroethene	5	82	D
124-48-1	Dibromochloromethane	4		U
79-00-5	1,1,2-Trichloroethane	5		U
71-43-2	Benzene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
75-25-2	Bromoform	4		U
127-18-4	Tetrachloroethene	5	15	D
79-34-5	1,1,2,2-Tetrachloroethane	4		U
108-88-3	Toluene	5		U
108-90-7	Chlorobenzene	4		U
100-41-4	Ethylbenzene	4		U
100-42-5	Styrene	4		U
78-87-5	1,2-Dichloropropane	5		U
74-87-3	Chloromethane	7		U
75-15-0	Carbon disulfide	4		U
67-64-1	Acetone	36	12	DJB
108-10-1	4-Methyl-2-pentanone	14		U
591-78-6	2-hexanone	14		U
78-93-3	2-butanone	21		U
156-60-5	trans-1,2-Dichloroethene	5		U
156-59-2	cis-1,2-Dichloroethene	4	17	D

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914766

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014766A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 7.1

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	4		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8I

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914765

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014765A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 500.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	250		U
75-01-4	Vinyl Chloride	500		U
75-00-3	Chloroethane	250		U
75-09-2	Methylene Chloride	5000	400	JB
75-35-4	1,1-Dichloroethene	380		U
75-34-3	1,1-Dichloroethane	250		U
67-66-3	Chloroform	380		U
107-06-2	1,2-Dichloroethane	380		U
71-55-6	1,1,1-Trichloroethane	380		U
56-23-5	Carbon Tetrachloride	500		U
75-27-4	Bromodichloromethane	250		U
10061-01-5	cis-1,3-Dichloropropene	250		U
79-01-6	Trichloroethene	380	2700	
124-48-1	Dibromochloromethane	250		U
79-00-5	1,1,2-Trichloroethane	380		U
71-43-2	Benzene	380		U
10061-02-6	trans-1,3-Dichloropropene	380		U
75-25-2	Bromoform	250		U
127-18-4	Tetrachloroethene	380	13000	E
79-34-5	1,1,2,2-Tetrachloroethane	250		U
108-88-3	Toluene	380		U
108-90-7	Chlorobenzene	250		U
100-41-4	Ethylbenzene	250		U
100-42-5	Styrene	250		U
78-87-5	1,2-Dichloropropane	380		U
74-87-3	Chloromethane	500		U
75-15-0	Carbon disulfide	250		U
67-64-1	Acetone	2500		U
108-10-1	4-Methyl-2-pentanone	1000		U
591-78-6	2-hexanone	1000		U
78-93-3	2-butanone	1500		U
156-60-5	trans-1,2-Dichloroethene	380		U
156-59-2	cis-1,2-Dichloroethene	250		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8I

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914765

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014765A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 500.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	250		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8IDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914765

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014765A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 714.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	360		U
75-01-4	Vinyl Chloride	710		U
75-00-3	Chloroethane	360		U
75-09-2	Methylene Chloride	11000	550	DJB
75-35-4	1,1-Dichloroethene	540		U
75-34-3	1,1-Dichloroethane	360		U
67-66-3	Chloroform	540		U
107-06-2	1,2-Dichloroethane	540		U
71-55-6	1,1,1-Trichloroethane	540		U
56-23-5	Carbon Tetrachloride	710		U
75-27-4	Bromodichloromethane	360		U
10061-01-5	cis-1,3-Dichloropropene	360		U
79-01-6	Trichloroethene	540	2600	D
124-48-1	Dibromochloromethane	360		U
79-00-5	1,1,2-Trichloroethane	540		U
71-43-2	Benzene	540		U
10061-02-6	trans-1,3-Dichloropropene	540		U
75-25-2	Bromoform	360		U
127-18-4	Tetrachloroethene	540	9400	D
79-34-5	1,1,2,2-Tetrachloroethane	360		U
108-88-3	Toluene	540		U
108-90-7	Chlorobenzene	360		U
100-41-4	Ethylbenzene	360		U
100-42-5	Styrene	360		U
78-87-5	1,2-Dichloropropane	540		U
74-87-3	Chloromethane	710		U
75-15-0	Carbon disulfide	360		U
67-64-1	Acetone	3600	1600	DJB
108-10-1	4-Methyl-2-pentanone	1400		U
591-78-6	2-hexanone	1400		U
78-93-3	2-butanone	2100		U
156-60-5	trans-1,2-Dichloroethene	540		U
156-59-2	cis-1,2-Dichloroethene	360		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8IDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914765

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014765A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 714.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	360		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-9D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914767

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014767B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	50		U
75-01-4	Vinyl Chloride	100	16	J
75-00-3	Chloroethane	50		U
75-09-2	Methylene Chloride	1000	73	JB
75-35-4	1,1-Dichloroethene	75		U
75-34-3	1,1-Dichloroethane	50		U
67-66-3	Chloroform	75		U
107-06-2	1,2-Dichloroethane	75		U
71-55-6	1,1,1-Trichloroethane	75		U
56-23-5	Carbon Tetrachloride	100		U
75-27-4	Bromodichloromethane	50		U
10061-01-5	cis-1,3-Dichloropropene	50		U
79-01-6	Trichloroethene	75	3500	E
124-48-1	Dibromochloromethane	50		U
79-00-5	1,1,2-Trichloroethane	75		U
71-43-2	Benzene	75		U
10061-02-6	trans-1,3-Dichloropropene	75		U
75-25-2	Bromoform	50		U
127-18-4	Tetrachloroethene	75		U
79-34-5	1,1,2,2-Tetrachloroethane	50		U
108-88-3	Toluene	75		U
108-90-7	Chlorobenzene	50		U
100-41-4	Ethylbenzene	50		U
100-42-5	Styrene	50		U
78-87-5	1,2-Dichloropropane	75		U
74-87-3	Chloromethane	100		U
75-15-0	Carbon disulfide	50		U
67-64-1	Acetone	500		U
108-10-1	4-Methyl-2-pentanone	200		U
591-78-6	2-hexanone	200		U
78-93-3	2-butanone	300		U
156-60-5	trans-1,2-Dichloroethene	75		U
156-59-2	cis-1,2-Dichloroethene	50	240	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-9D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914767

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014767B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	50		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-9DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914767

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014767B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 192.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	96		U
75-01-4	Vinyl Chloride	190		U
75-00-3	Chloroethane	96		U
75-09-2	Methylene Chloride	2900	170	DJB
75-35-4	1,1-Dichloroethene	140		U
75-34-3	1,1-Dichloroethane	96		U
67-66-3	Chloroform	140		U
107-06-2	1,2-Dichloroethane	140		U
71-55-6	1,1,1-Trichloroethane	140		U
56-23-5	Carbon Tetrachloride	190		U
75-27-4	Bromodichloromethane	96		U
10061-01-5	cis-1,3-Dichloropropene	96		U
79-01-6	Trichloroethene	140	2800	D
124-48-1	Dibromochloromethane	96		U
79-00-5	1,1,2-Trichloroethane	140		U
71-43-2	Benzene	140		U
10061-02-6	trans-1,3-Dichloropropene	140		U
75-25-2	Bromoform	96		U
127-18-4	Tetrachloroethene	140		U
79-34-5	1,1,2,2-Tetrachloroethane	96		U
108-88-3	Toluene	140		U
108-90-7	Chlorobenzene	96		U
100-41-4	Ethylbenzene	96		U
100-42-5	Styrene	96		U
78-87-5	1,2-Dichloropropane	140		U
74-87-3	Chloromethane	190		U
75-15-0	Carbon disulfide	96		U
67-64-1	Acetone	960	290	DJB
108-10-1	4-Methyl-2-pentanone	380		U
591-78-6	2-hexanone	380		U
78-93-3	2-butanone	580		U
156-60-5	trans-1,2-Dichloroethene	140		U
156-59-2	cis-1,2-Dichloroethene	96	210	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-9DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914767

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014767B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 192.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	96		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TBLK101498

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914747

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014747B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	4	JB
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	1	JB
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TBLK101498

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914747

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014747B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKCM

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab File ID: CC981021B56.D Lab Sample ID: VBLKCM

Date Analyzed: 10/21/98 Time Analyzed: 1844

GC Column:DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS70	915061	CN015061B56.D	1938
02	PZ-12I	914750	CN014750B56.D	2124
03	MW-15S	914752	CN014752B56.D	2239
04	E101498-2	914753	CN014753B56.D	2315
05	MW-11S	914754	CN014754B56.D	2351
06	MW-11SDUP	914755	CN014755B56.D	0026
07	MWB-3	914756	CN014756B56.D	0102
08	MWC-3	914757	CN014757B56.D	0138
09				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKCM

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: VBLKCM

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CC981021B56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	10	0.8	J
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	2	J
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKCM

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: VBLKCM

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CC981021B56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKKP

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab File ID: CB981023A54.D Lab Sample ID: VBLKKP

Date Analyzed: 10/23/98 Time Analyzed: 1005

GC Column:SP624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50054

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS93	915647	CN015647A54.D	1052
02	PZ-12D	914751	CR014751A54.D	1431
03	PZ-14I	914759	CR014759A54.D	1537
04	PZ-14I	914759	CR014759A54.D	1537
05	MWA-2DL	914760	CR014760A54.D	1611
06	PZ-16D	914761	CR014761A54.D	1703
07	MWB-6	914762	CR014762A54.D	1736
08	PZ-8IDL	914765	CR014765A54.D	1810
09	PZ-8DDL	914766	CR014766A54.D	1843
10	PZ-12IDL	914750	C2R14750A54.D	1919
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13				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKKP

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: VBLKKP

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981023A54.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	1	J
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	1	J
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKKP

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: VBLKKP

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981023A54.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKLF

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab File ID: CB981022B54.D Lab Sample ID: VBLKLF

Date Analyzed: 10/22/98 Time Analyzed: 1955

GC Column:SP624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50054

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS39	915825	CN015825B54.D	2104
02	MW-10S	914768	CN014768B54.D	0255
03	PZ-10I	914769	CN014769B54.D	0328
04	TBLK101498	914747	CR014747B54.D	0402
05				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKLF

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: VBLKLF

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981022B54.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	0.8	J
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	1	J
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKLF

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: VBLKLF

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981022B54.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKLT

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab File ID: CB981023B54.D Lab Sample ID: VBLKLT

Date Analyzed: 10/23/98 Time Analyzed: 2156

GC Column:SP624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50054

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS06	916198	CN016198B54.D	2241
02	PZ-9DDL	914767	CR014767B54.D	2319
03	MWB-3DL	915756	C2R14756B54.D	2354
04	PZ-14IDL	914759	C2R14759B54.D	0029
05	MWA-2DLMS	914748	CN014748B54.D	0104
06	MWA-2DLMSD	914749	CN014749B54.D	0135
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKLT

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: VBLKLT

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981023B54.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	1	J
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	1	J
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3	0.5	J
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKLT

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: VBLKLT

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981023B54.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKRZ

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab File ID: CB981022A56.D Lab Sample ID: VBLKRZ

Date Analyzed: 10/22/98 Time Analyzed: 0953

GC Column:DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS87	VLCS87	CN015602A56.D	1151
02	MWA-2	914760	CN014760A56.D	1331
03	PZ-16DDL	914761	CN014761A56.D	1407
04	MW-8S	914763	CN014763A56.D	1521
05	E101598-3	914764	CN014764A56.D	1556
06	PZ-8I	914765	CN014765A56.D	1630
07	PZ-8D	914766	CN014766B56.D	1706
08	PZ-9D	914767	CN014767B56.D	1747
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKRZ

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: VBLKRZ

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981022A56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	10	1	J
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	3	J
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKRZ

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: VBLKRZ

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981022A56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

	SAMPLE NO.	SMC1 (DBF) #	SMC2 (TOL) #	SMC3 (BFB) #	OTHER	TOT OUT
01	E101498-2	117	91	85		0
02	E101598-3	113	117	95		0
03	MW-10S	93	95	92		0
04	MW-11S	112	103	88		0
05	MW-11SDUP	106	93	88		0
06	MW-15S	120	102	89		0
07	MW-8S	121	112	86		0
08	MWA-2	122	108	93		0
09	MWA-2DL	106	105	100		0
10	MWA-2DLMS	93	101	107		0
11	MWA-2DLMSD	93	92	90		0
12	MWB-3	120	117	99		0
13	MWB-3DL	96	96	95		0
14	MWB-6	99	113	110		0
15	MWC-3	109	103	87		0
16	PZ-10I	95	96	92		0
17	PZ-12D	102	102	96		0
18	PZ-12I	131*	96	84		1
19	PZ-12IDL	102	106	103		0
20	PZ-14I	109	105	96		0
21	PZ-14IDL	97	94	89		0
22	PZ-16D	95	106	104		0
23	PZ-16DDL	117	97	84		0
24	PZ-8D	141*	140*	124		2
25	PZ-8DDL	103	105	102		0
26	PZ-8I	120	107	86		0
27	PZ-8IDL	98	108	105		0
28	PZ-9D	126	120	95		0
29	PZ-9DDL	119	95	88		0
30	TBLK101498	93	97	90		0

			QC LIMITS
SMC1	(DBF)	= Dibromofluoromethane	(70-130)
SMC2	(TOL)	= Toluene-d8	(70-130)
SMC3	(BFB)	= Bromofluorobenzene	(70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

	SAMPLE NO.	SMC1 (DBF) #	SMC2 (TOL) #	SMC3 (BFB) #	OTHER	TOT OUT
01	VBLKCM	114	83	77		0
02	VBLKKP	123	104	96		0
03	VBLKLF	100	94	83		0
04	VBLKLT	101	96	91		0
05	VBLKRZ	114	85	85		0
06	VLCS06	97	98	96		0
07	VLCS39	89	100	101		0
08	VLCS70	111	87	94		0
09	VLCS87	102	86	107		0
10	VLCS93	101	107	107		0
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			QC LIMITS
SMC1	(DBF)	= Dibromofluoromethane	(70-130)
SMC2	(TOL)	= Toluene-d8	(70-130)
SMC3	(BFB)	= Bromofluorobenzene	(70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix Spike - Sample No.: MWA-2DL

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Bromomethane	835.0	0.000	765.8	92	20-150
Vinyl Chloride	835.0	0.000	653.1	78	20-150
Chloroethane	835.0	0.000	785.2	94	20-150
Methylene Chloride	835.0	125.3	853.0	87	20-300
1,1-Dichloroethene	835.0	0.000	824.2	99	20-150
1,1-Dichloroethane	835.0	0.000	844.6	101	20-150
Chloroform	835.0	0.000	787.7	94	20-150
1,2-Dichloroethane	835.0	0.000	866.6	104	20-150
1,1,1-Trichloroethane	835.0	1160	1916	90	20-150
Carbon Tetrachloride	835.0	0.000	841.4	101	20-150
Bromodichloromethane	835.0	0.000	884.0	106	20-150
cis-1,3-Dichloropropene	835.0	0.000	831.5	100	20-150
Trichloroethene	835.0	851.9	1761	109	20-150
Dibromochloromethane	835.0	0.000	869.8	104	20-150
1,1,2-Trichloroethane	835.0	0.000	828.6	99	20-150
Benzene	835.0	0.000	798.8	96	20-150
trans-1,3-Dichloroprope	835.0	0.000	510.2	61	20-150
Bromoform	835.0	0.000	877.1	105	20-150
Tetrachloroethene	835.0	2300	2810	61	20-150
1,1,2,2-Tetrachloroetha	835.0	0.000	894.8	107	20-150
Toluene	835.0	0.000	895.0	107	20-150
Chlorobenzene	835.0	0.000	883.8	106	20-150
Ethylbenzene	835.0	0.000	897.8	108	20-150
Styrene	835.0	0.000	863.9	103	20-150
1,2-Dichloropropane	835.0	0.000	847.0	101	20-150
Chloromethane	835.0	0.000	733.4	88	20-150
Carbon disulfide	835.0	0.000	777.2	93	20-150
Acetone	4175	0.000	3785	91	20-300
4-Methyl-2-pentanone	4175	0.000	3907	94	20-300
2-hexanone	4175	0.000	3943	94	20-300

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix Spike - Sample No.: MWA-2DL

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
2-butanone	4175	0.000	3978	95	20-300
trans-1,2-Dichloroethen	835.0	0.000	824.3	99	20-150
cis-1,2-Dichloroethene	835.0	848.9	1573	87	20-150
Xylene (total)	2505	0.000	2797	112	20-150

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix Spike - Sample No.: MWA-2DL

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	835.0	664.4	80	14	25	20-150
Vinyl Chloride	835.0	670.7	80	2	25	20-150
Chloroethane	835.0	768.3	92	2	25	20-150
Methylene Chloride	835.0	795.7	80	8	25	20-300
1,1-Dichloroethene	835.0	725.2	87	13	25	20-150
1,1-Dichloroethane	835.0	742.0	89	13	25	20-150
Chloroform	835.0	765.4	92	2	25	20-150
1,2-Dichloroethane	835.0	815.3	98	6	25	20-150
1,1,1-Trichloroethane	835.0	1815	78	14	25	20-150
Carbon Tetrachloride	835.0	742.2	89	13	25	20-150
Bromodichloromethane	835.0	685.9	82	26*	25	20-150
cis-1,3-Dichloropropene	835.0	679.4	81	21	25	20-150
Trichloroethene	835.0	1552	84	26*	25	20-150
Dibromochloromethane	835.0	748.0	90	14	25	20-150
1,1,2-Trichloroethane	835.0	751.5	90	10	25	20-150
Benzene	835.0	771.4	92	4	25	20-150
trans-1,3-Dichloroprope	835.0	645.0	77	23	25	20-150
Bromoform	835.0	713.4	85	21	25	20-150
Tetrachloroethene	835.0	2596	35	54*	25	20-150
1,1,2,2-Tetrachloroetha	835.0	758.4	91	16	25	20-150
Toluene	835.0	735.4	88	19	25	20-150
Chlorobenzene	835.0	769.5	92	14	25	20-150
Ethylbenzene	835.0	771.6	92	16	25	20-150
Styrene	835.0	736.0	88	16	25	20-150
1,2-Dichloropropane	835.0	719.5	86	16	25	20-150
Chloromethane	835.0	743.9	89	1	25	20-150
Carbon disulfide	835.0	728.3	87	7	25	20-150
Acetone	4175	3606	86	6	25	20-300
4-Methyl-2-pentanone	4175	3321	80	16	25	20-300
2-hexanone	4175	3134	75	22	25	20-300

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix Spike - Sample No.: MWA-2DL

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2-butanone	4175	4138	99	4	25	20-300
trans-1,2-Dichloroethen	835.0	717.5	86	14	25	20-150
cis-1,2-Dichloroethene	835.0	1509	79	10	25	20-150
Xylene (total)	2505	2363	94	17	25	20-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 3 out of 34 outside limits
Spike Recovery: 0 out of 68 outside limits

COMMENTS:

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS06

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab Sample ID: 916198 LCS Lot No.: SE115

Lab File ID: CN016198B54.D Date Analyzed: 10/23/98

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
1,1,1-Trichloroethane	5.00	4.94	99	20-150
1,1,2-Trichloroethane	5.00	4.32	86	20-150
1,2-Dichloroethane	5.00	4.42	88	20-150
Benzene	5.00	4.66	93	20-150
Bromodichloromethane	5.00	4.45	89	20-150
Bromoform	5.00	4.31	86	20-150
Bromomethane	5.00	5.02	100	20-150
Carbon Tetrachloride	5.00	4.71	94	20-150
Carbon disulfide	5.00	4.88	98	20-150
Chloroethane	5.00	5.00	100	20-150
Dibromochloromethane	5.00	4.30	86	20-150
Styrene	5.00	4.36	87	20-150
Tetrachloroethene	5.00	4.72	94	20-150
Trichloroethene	5.00	4.62	92	20-150
cis-1,2-Dichloroethene	5.00	4.55	91	20-150
cis-1,3-Dichloropropene	5.00	4.39	88	20-150
trans-1,2-Dichloroethene	5.00	4.69	94	20-150
trans-1,3-Dichloropropene	5.00	3.62	72	20-150
Xylene (total)	15.00	14.37	96	20-150
Methylene Chloride	5.00	5.17	104	20-300
2-butanone	25.00	25.69	103	20-300
2-hexanone	25.00	22.83	91	20-300
4-Methyl-2-pentanone	25.00	22.77	91	20-300
Acetone	25.00	24.16	97	20-300
1,1,2,2-Tetrachloroethane	5.00	4.29	86	20-150
1,1-Dichloroethane	5.00	4.71	94	20-150
1,1-Dichloroethene	5.00	4.72	94	20-150
1,2-Dichloropropane	5.00	4.48	90	20-150
Chlorobenzene	5.00	4.52	90	20-150
Chloroform	5.00	4.56	91	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS06

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab Sample ID: 916198 LCS Lot No.: SE115

Lab File ID: CN016198B54.D Date Analyzed: 10/23/98

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Chloromethane	5.00	4.69	94	20-150
Ethylbenzene	5.00	4.61	92	20-150
Toluene	5.00	4.62	92	20-150
Vinyl Chloride	5.00	4.57	91	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 34 total.

COMMENTS:

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS39

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab Sample ID: 915825 LCS Lot No.: SE115

Lab File ID: CN015825B54.D Date Analyzed: 10/22/98

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
1,1,1-Trichloroethane	5.00	4.58	92	20-150
1,1,2-Trichloroethane	5.00	5.00	100	20-150
1,2-Dichloroethane	5.00	5.32	106	20-150
Benzene	5.00	4.56	91	20-150
Bromodichloromethane	5.00	5.42	108	20-150
Bromoform	5.00	5.15	103	20-150
Bromomethane	5.00	4.36	87	20-150
Carbon Tetrachloride	5.00	4.58	92	20-150
Carbon disulfide	5.00	4.71	94	20-150
Chloroethane	5.00	4.35	87	20-150
Dibromochloromethane	5.00	5.29	106	20-150
Styrene	5.00	4.86	97	20-150
Tetrachloroethene	5.00	4.80	96	20-150
Trichloroethene	5.00	5.29	106	20-150
cis-1,2-Dichloroethene	5.00	4.55	91	20-150
cis-1,3-Dichloropropene	5.00	5.24	105	20-150
trans-1,2-Dichloroethene	5.00	4.48	90	20-150
trans-1,3-Dichloropropene	5.00	4.04	81	20-150
Xylene (total)	15.00	16.01	107	20-150
Methylene Chloride	5.00	5.34	107	20-300
2-butanone	25.00	22.89	92	20-300
2-hexanone	25.00	23.35	93	20-300
4-Methyl-2-pentanone	25.00	24.40	98	20-300
Acetone	25.00	23.69	95	20-300
1,1,2,2-Tetrachloroethane	5.00	5.06	101	20-150
1,1-Dichloroethane	5.00	4.51	90	20-150
1,1-Dichloroethene	5.00	4.50	90	20-150
1,2-Dichloropropane	5.00	5.13	102	20-150
Chlorobenzene	5.00	5.11	102	20-150
Chloroform	5.00	4.59	92	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS39

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab Sample ID: 915825 LCS Lot No.: SE115

Lab File ID: CN015825B54.D Date Analyzed: 10/22/98

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Chloromethane	5.00	4.54	91	20-150
Ethylbenzene	5.00	4.88	98	20-150
Toluene	5.00	5.18	104	20-150
Vinyl Chloride	5.00	4.51	90	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 34 total.

COMMENTS:

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS70

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab Sample ID: 915061 LCS Lot No.: SE115

Lab File ID: CN015061B56.D Date Analyzed: 10/21/98

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
1,1,1-Trichloroethane	5.00	5.67	114	20-150
1,1,2-Trichloroethane	5.00	6.08	122	20-150
1,2-Dichloroethane	5.00	4.95	99	20-150
Benzene	5.00	5.30	106	20-150
Bromodichloromethane	5.00	5.07	101	20-150
Bromoform	5.00	5.84	117	20-150
Bromomethane	5.00	4.88	98	20-150
Carbon Tetrachloride	5.00	5.72	114	20-150
Carbon disulfide	5.00	4.74	95	20-150
Chloroethane	5.00	4.85	97	20-150
Dibromochloromethane	5.00	5.44	109	20-150
Styrene	5.00	5.59	112	20-150
Tetrachloroethene	5.00	6.03	120	20-150
Trichloroethene	5.00	5.49	110	20-150
cis-1,2-Dichloroethene	5.00	4.90	98	20-150
cis-1,3-Dichloropropene	5.00	4.63	92	20-150
trans-1,2-Dichloroethene	5.00	4.72	94	20-150
trans-1,3-Dichloropropene	5.00	5.49	110	20-150
Xylene (total)	15.00	19.57	130	20-150
Methylene Chloride	5.00	4.32	86	20-300
2-butanone	25.00	25.81	103	20-300
2-hexanone	25.00	24.81	99	20-300
4-Methyl-2-pentanone	25.00	22.34	89	20-300
Acetone	25.00	21.33	85	20-300
1,1,2,2-Tetrachloroethane	5.00	4.96	99	20-150
1,1-Dichloroethane	5.00	4.78	96	20-150
1,1-Dichloroethene	5.00	4.60	92	20-150
1,2-Dichloropropane	5.00	5.09	102	20-150
Chlorobenzene	5.00	5.78	116	20-150
Chloroform	5.00	6.16	123	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS70

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab Sample ID: 915061 LCS Lot No.: SE115

Lab File ID: CN015061B56.D Date Analyzed: 10/21/98

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Chloromethane	5.00	4.98	100	20-150
Ethylbenzene	5.00	5.78	116	20-150
Toluene	5.00	4.76	95	20-150
Vinyl Chloride	5.00	4.86	97	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 34 total.

COMMENTS:

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS87

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab Sample ID: VLCS87 LCS Lot No.: SE115

Lab File ID: CN015602A56.D Date Analyzed: 10/22/98

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
1,1,1-Trichloroethane	5.00	5.08	102	20-150
1,1,2-Trichloroethane	5.00	4.88	98	20-150
1,2-Dichloroethane	5.00	4.84	97	20-150
Benzene	5.00	4.99	100	20-150
Bromodichloromethane	5.00	4.88	98	20-150
Bromoform	5.00	4.84	97	20-150
Bromomethane	5.00	4.75	95	20-150
Carbon Tetrachloride	5.00	5.11	102	20-150
Carbon disulfide	5.00	4.86	97	20-150
Chloroethane	5.00	4.83	97	20-150
Dibromochloromethane	5.00	4.97	99	20-150
Styrene	5.00	5.17	103	20-150
Tetrachloroethene	5.00	5.04	101	20-150
Trichloroethene	5.00	5.05	101	20-150
cis-1,2-Dichloroethene	5.00	4.88	98	20-150
cis-1,3-Dichloropropene	5.00	4.17	83	20-150
trans-1,2-Dichloroethene	5.00	5.13	102	20-150
trans-1,3-Dichloropropene	5.00	5.07	101	20-150
Xylene (total)	15.00	17.96	120	20-150
Methylene Chloride	5.00	4.25	85	20-300
2-butanone	25.00	28.88	116	20-300
2-hexanone	25.00	24.87	99	20-300
4-Methyl-2-pentanone	25.00	21.07	84	20-300
Acetone	25.00	24.68	99	20-300
1,1,2,2-Tetrachloroethane	5.00	4.97	99	20-150
1,1-Dichloroethane	5.00	5.03	100	20-150
1,1-Dichloroethene	5.00	4.98	100	20-150
1,2-Dichloropropane	5.00	4.81	96	20-150
Chlorobenzene	5.00	5.08	102	20-150
Chloroform	5.00	5.03	101	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS87

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab Sample ID: VLCS87 LCS Lot No.: SE115

Lab File ID: CN015602A56.D Date Analyzed: 10/22/98

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Chloromethane	5.00	4.78	96	20-150
Ethylbenzene	5.00	5.19	104	20-150
Toluene	5.00	4.21	84	20-150
Vinyl Chloride	5.00	4.71	94	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 34 total.

COMMENTS:

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS93

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab Sample ID: 915647 LCS Lot No.: SE115

Lab File ID: CN015647A54.D Date Analyzed: 10/23/98

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
1,1,1-Trichloroethane	5.00	4.96	99	20-150
1,1,2-Trichloroethane	5.00	5.00	100	20-150
1,2-Dichloroethane	5.00	4.66	93	20-150
Benzene	5.00	5.18	104	20-150
Bromodichloromethane	5.00	5.01	100	20-150
Bromoform	5.00	5.07	101	20-150
Bromomethane	5.00	5.24	105	20-150
Carbon Tetrachloride	5.00	4.93	98	20-150
Carbon disulfide	5.00	5.32	106	20-150
Chloroethane	5.00	5.38	108	20-150
Dibromochloromethane	5.00	5.15	103	20-150
Styrene	5.00	5.20	104	20-150
Tetrachloroethene	5.00	5.27	105	20-150
Trichloroethene	5.00	5.13	103	20-150
cis-1,2-Dichloroethene	5.00	5.34	107	20-150
cis-1,3-Dichloropropene	5.00	5.58	112	20-150
trans-1,2-Dichloroethene	5.00	5.30	106	20-150
trans-1,3-Dichloropropene	5.00	5.47	110	20-150
Xylene (total)	15.00	16.39	109	20-150
Methylene Chloride	5.00	5.55	111	20-300
2-butanone	25.00	26.02	104	20-300
2-hexanone	25.00	29.12	116	20-300
4-Methyl-2-pentanone	25.00	29.87	119	20-300
Acetone	25.00	28.21	113	20-300
1,1,2,2-Tetrachloroethane	5.00	4.94	99	20-150
1,1-Dichloroethane	5.00	5.27	105	20-150
1,1-Dichloroethene	5.00	5.27	105	20-150
1,2-Dichloropropane	5.00	5.13	102	20-150
Chlorobenzene	5.00	5.03	101	20-150
Chloroform	5.00	4.83	97	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS93

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Lab Sample ID: 915647 LCS Lot No.: SE115

Lab File ID: CN015647A54.D Date Analyzed: 10/23/98

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Chloromethane	5.00	4.94	99	20-150
Ethylbenzene	5.00	5.23	105	20-150
Toluene	5.00	5.53	110	20-150
Vinyl Chloride	5.00	4.98	100	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 34 total.

COMMENTS:

COMPUCHEM

a division of Liberty Analytical Corp.

ENTERED IN COMPUTER
BY/DATE DVS 10/29/98
CHECKED BY DVS/DJS
DATE 11/3/98

28/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33902

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 7 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Diane Ellmore

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

28/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
914770	PZ-17D	10/17/98
914773	PZ-17I	10/17/98
914774	MWA-1	10/17/98
914775	MWA-4	10/17/98
914776	SPARGEH2O	10/17/98
914777	MW-20S	10/17/98
914888	PZ-15I	10/17/98

TOTAL NUMBER OF SAMPLES = 7

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

CompuChem
a Division of Liberty Analytical
501 N. Madison Avenue
Cary, NC 27513

SDG NARRATIVE
CASE:33902
SDG:25403
CONTRACT:501112

SAMPLE IDENTIFICATIONS: SPARGEH2O PZ-17D PZ-17I PZ-15I MWA-1 MWA-4 MW-20S

The seven(7) water samples listed above were received intact, properly refrigerated,with proper chain of custody(COC) documentation on October 17,1998. The samples were prepared and analyzed following SW846 method 8260 25ml purge. All of these samples were submitted for volatile only analysis.

VOLATILES:

Analysis holding time requirements were met for these samples. The majority of samples contained one or more of the target analytes 1,1,1-trichloroethane, trichloroethene, tetrachloroethene, 1,1-dichloroethane and cis-1,2-dichloroethene.

Samples MWA-1, MWA-4, PZ-15I, PZ-17D and PZ-17I, were all analyzed at dilutions, to bring one or more of these analytes into calibration range.

Sample PZ-17D was originally analyzed neat and trichloroethene,tetrachloroethene and cis-1,2-dichloroethene exceeded the calibration range. A reanalysis at a 17:1 dilution brought these analytes into range. We are reporting both analyses so that no TCL data would be lost due to dilution.

No Tentatively Identified Compound (TIC) data is provided as requested by the client.

All of the surrogates met recovery criteria and all of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria and all contained methylene chloride and acetone below the reporting limit.

The associated Laboratory Control Samples(LCS's) met all QC acceptance limits.

The duplicate matrix spikes generated from MW-20S met all QC precision and accuracy criteria with one exception.The spike compound trichloroethene exceeded the advisory RPD limits.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions listed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Roy M. Sutton
Development Chemist
October 28, 1998

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
Supelco	SPB-624	0.53	3.0	75
GC/MS Semivolatiles Laboratory				
J & W	DB-5	0.32	1.0	30
Hewlett Packard	HP5-MS	0.25	0.25	30

TRAP

GC/MS Volatiles Laboratory	
	* 15 cm of 2,6-diphenylene oxide polymer (Tenax) * 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of silica gel * 0.5 cm of glass wool at each end

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These adjustments are performed by the data reviewer, GC/MS operator, or GC chemist. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration of each compound to demonstrate the accuracy of that process. Adjustments are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count as possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that the data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

With the introduction of the current EPA CLP SOW (Document Number OLM03.0, plus revisions) additional explanations for manual editing/integration are required. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer
Vice President

Revision 4 (10/8/97)

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

CHRYSLER CORPORATION

Chain-of-Custody

03732 A

4th Quarter GW Sampling

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: DAYTON THERMAL PROD
Site Location: Dayton, OH
Site Code: SC001
RFA Number: YGQP9800254-T
Chrysler PM: Gary Stanczuk

Consultant: Legacy Hz, Braitheard & Graham, Inc.
Address: 1211 W. Co. Rd. E
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260	Volatiles pH <2	Metals pH <2	Cyanide pH > 12	Other ___	Remarks
E101498-1	10/14/98	8:30	G	GW	3	X					Equipment Blank
MWC-1		8:40			3	X					
MWB-1		8:50			3	X					
PZ-22I		9:05			3	X					
MWB-4		9:40			3	X					
PZ-21I		9:50			3	X					
MW-19S		10:10			3	X					
PZ-19I		10:20			3	X					
PZ-20D		10:50			3	X					
MW-18S		11:04			3	X					

Sampler(s): Daniel Parnell

Bottles Relinquished under Airbill No. 4287 4957 7498

Samples Relinquished under Airbill No. 20 8445 3473

Temperature (corrected) 4.0 open t 10:40am 10/17/98

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Daniel Parnell	10/15/98		Natalie Scott	10-16-98	1213	Yes No

Cooler ID # 402

Is RFA sampling complete? Yes No

Relinquished by: Date: Time: Received for Laboratory by: Diane Ellmore Date: 10/17/98 Time: 10:40am Custody Seal Intact? Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Samples placed in storage ID 4 DE 10/17/98 11:30am

C/C Sealed
Samples intact

Revision No. 1
Dated September 23, 1997

CHRYSLER CORPORATION

Chain-of-Custody

03733 A

4th Quarter GW Sampling

CompuChem
801 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, OH.
Site Code: SC001
RFA Number: YGQP9800254-T
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham, Inc.
Address: 1270 W. CO. Rd E
St. Paul, MN 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
8 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260									Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
MWB-2	10/14/98	11:30	G	GW	3	X													
MWC-2		11:45			3	X													
MW-7S		13:00			3	X													
PZ-7I		13:10			3	X													
MWB-5		13:20			3	X													
MWA-5		13:30			3	X													
MWA-6		13:55			3	X													
PZ-13I		13:40			3	X													
MWA-6 Dup		13:56			3	X													
Trip Blank 101498					2	X													

Sampler(s): Daniel Prescott

Cooler ID # 402

RFA sampling complete? Yes No

Bottles Reliquished under Airbill No. 4287 4957 7498

Samples Relinquished under Airbill No. 802 4953473

Temperature (corrected) 4.0 C open 10:40am 10/17/98

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Daniel Prescott	10/15/98		Natalie Scott	10-16-98	1213	Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	10/17/98	10:40am	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Samples placed in storage
ID 4 DE 10/17/98 11:30am

C/C Sealed
Samples intact
Cooler temp 1°

Revision No. 1
Created September 23, 1997

CHRYSLER CORPORATION

Chain-of-Custody

03734 A

4th Qtr GW Sampling

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal Products Site Location: Dayton, OH Site Code: SC001 RFA Number: YGQP9800254-T Chrysler PM: Gary Stanczuk	Consultant: Leggette, Brashears & Graham, Inc Address: 1270 W. Co. Rd. E St Paul, MN 55112 Consultant PM: Ken Vogel Phone: 651-490-1405 Fax: 651-490-1405

Turn-around Time Request:
14 calendar hrs.
18 calendar hrs.
10 days
18 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
PZ-12I	10/14/98	14:00	G	GW	3	X					
PZ-12D	↓	14:10	↓	↓	3	X					
MW-15S	↓	14:50	↓	↓	2	X					
E101498-2	↓	15:00	↓	↓	2	X					Equipment Blank
MW-15I ☆	↓	15:01	↓	↓	2	X	should read PZ-15I DE 10/14/98 per Dave Strand @ 1GG				On bottle PZ-15I time 15:01
MW-11S	↓	15:15	↓	↓	2	X					
MW-11S Dup	↓	15:16	↓	↓	2	X					
MWB-3	↓	15:30	↓	↓	2	X					
MWC-3	↓	15:40	↓	↓	2	X					
MWA-3	↓	16:00	↓	↓	2	X					

Sampler(s): Daniel Driscoll

Cooler ID # 7

RFA sampling complete? Yes No

Bottles Reliquished under Airbill No. 4287 4957 7498

Samples Relinquished under Airbill No. 8024953462

Temperature (corrected) 4.0 C DE 10:40am 10/17/98

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Daniel Driscoll	10/15/98		Natalie Booth	10-16-98	1213	Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	10/17/98	10:40am	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Samples placed in storage ID 4
DE 10/14/98
11:30am

C/C Sealed
Samples Intact
Cooler temp 6° NB

Revision No. 1
Revised September 23, 1997

CHRYSLER CORPORATION

Chain-of-Custody

03735 A

4th Qtr. GW. Sampling

ompuChem 01 Madison Avenue ary, NC 27513 hone Number: 1-800-833-5097 ax Number: (919) 379-4050	Project Name: Dayton Thermal Products Site Location: Dayton, OH Site Code: SC001 RFA Number: YGOP9800254-T Chrysler PM: Gary Sanzuk	Consultant: Leggette, Brashears & Graham, Inc. Address: 1210 W. Co Rd. E St Paul, MN. 55112 Consultant PM: Ken Vogel Phone: 651-490-1905	Fax: 651-490-1006

urn-around Time Request:
4 calendar hrs.
8 calendar hrs.
0 days
5 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
MWA-3 MS/MSD	[illegible]	16:01	G	GW	2	X					
PZ-14I	10/14/98	16:10			2	X					
MWA-2		16:25			2	X					
MWA-2 MS/MSD		16:26			2	X					
PZ-16D		16:30			2	X					
MWB-6	10/15/98	7:55			2	X					
MW-8S		8:15			2	X					
E101598-3		8:17			2	X					Equipment blank
PZ-8I		8:20			2	X					
PZ-8D		8:25			2	X					

Lab Use Only

Sampler(s): [signature]

Bottles Reliquished under Airbill No. 4287 4957 7498

Samples Relinquished under Airbill No. 8024953462

Temperature (corrected) 4.0 C open @ 10:40am DE 10/17/98

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
[signature]	10/15/98		Natalie Booth			Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	10/17/98	10:40am	Yes No

ooler ID # 7

RFA sampling complete? Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Samples placed in storage ID
4 DE 10/17/98
11:30am

C/C Sealed Samples intact
Cooler temp 6° NS

Revision No. 1
Created: September 23, 1997

CHRYSLER CORPORATION

Chain-of-Custody

03736 A

4th Qtr. GW- Sampling

ompuChem
01 Madison Avenue
ary, NC 27513
hone Number: 1-800-833-5097
ax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, OH
Site Code: SC001
RFA Number: YGQP95 00254-T
Chrysler PM: Gary Stanczak

Consultant: Leggette, Brashears & Graham, Inc
Address: 1210 W. Co. Rd. E
St. Paul, MN.
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

urn-around Time Request:
4 calendar hrs.
3 calendar hrs.
days
3 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify) Sparge Water

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
PZ-9D	10/15/98	8:50	G	GW	2	X					
MW-10S	↓	9:30	↓	↓	2	X					
PZ-10I	↓	9:35	↓	↓	2	X					
PZ-17D	↓	10:10	↓	↓	2	X					
PZ-17I	↓	10:20	↓	↓	2	X					
MWA-1	↓	11:00	↓	↓	2	X					
MWA-4	↓	14:15	↓	↓	2	X					
Sparge H2O	↓	16:45	↓	O	2	X	Time added per Dave Strand DE 10/19/98				
MW-20S	10/14/98	10:45	↓		3	X					

Sampler(s): [signature]

Bottles Reliquished under Airbill No. 4287 4957 7498

Samples Relinquished under Airbill No. 8024953462

Temperature (corrected) 4.0 C open DE 10/17/98 10:40am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
[signature]	10/15/98					Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	10/17/98	10:40am	Yes No

cler ID # 7

RFA sampling complete? Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

C/C Sealed
Samples intact
Cooler temp 6

Samples placed in storage
ID 4 DE 10/17/98

Revision No. 1
Created: September 23, 1997

MEMORANDUM

To: Mark Bevan
Kenny McDaniel
Brian Neptune
Roy Sutton

From: Diane Ellmore

Date: October 19, 1998

Re: Case 33902

SDG 25401

CCN: 914740 ID corrected in LIMS. ID is now MW-7S

CCN: 914730 ID corrected in LIMS. ID is now MWA-6DUP

SDG 25403

CCN: 914888 Sample logged into LIMS on 10/19/98 due to ID discrepancy on COC verses bottle labels. Sample is backdated in LIMS to 10/17/98 (actual receipt date).

COMPUCHEM
a division of Liberty Analytical

LOG-IN VERIFICATION

Client: Chrysler Project: RFA 254

Case: 33902 Date Received: 10/17/98

Were all sample I.D.'s checked? (Yes) / No * see corrective action

Were all analyses on COC also on receipt log? (Yes) / No

Were any associated line item's missing? Yes / (No)

Were all parameter's logged in? (Yes) / No

Were correct method numbers received? (Yes) / No

Is any information absent from receiving log header? Yes / (No)

Were all blank lines on the receiving log z'ed out? (Yes) / No

Was TAT verified (quick turn line items used?) (Yes) / No

Was QC designated and verified? (Yes) / No / N/A

Is the field COC complete (signed/dated, etc)? (Yes) / No

Were all comments/issues recorded on COC? (Yes) / No

Signature: Diane Ellmore Date: 10/19/98

Corrective Action

Changed ID for MW-75 to MW-7S. Changed ID on CCN 914730 from MWA-6 to MWA-6DUP. ~~Sample~~ CCN 914888 rec'd 10/19 & backdated to 10/17 due to ID discrepency on COC & bottle labels

Completed By: Diane Ellmore Date: 10/19/98

LEGGETTE BRASHEARS & GRAHAM PAGE 1
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

RECEIVE DATE: 10/17/98
QUOTE NUMBER: 98-00070800000501112
ORDER NUMBER: 33902

SAMPLE ID	TURNAROUND** TIME	ANALYSIS	COMPUCHEM NUMBER
E101498-1	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914726
E101498-2	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914753
E101598-3	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914764
MW-10S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914768
MW-11S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914754
MW-11SDUP	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914755
MW-15S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914752
MW-18S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914737
MW-19S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914734
MW-20S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914777
MW-75 MS	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914740
MW-8S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914763
MWA-1	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914774
MWA-2	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914760
MWA-3	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914758
MWA-4	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914775
MWA-5	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914743
MWA-6	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914744
MWA-6DUP	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914746
MWB-1	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914730
MWB-2	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914738
MWB-3	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914756
MWB-4	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914732
MWB-5	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914742
MWB-6	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914762
MWC-1	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914729
MWC-2	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914739
MWC-3	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914757
PZ-10I	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914769
PZ-12D	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914751
PZ-12I	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914750
PZ-13I	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914745
PZ-14I	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914759
PZ-16D	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914761

** Please note that turnaround time and sample due dates will be, whenever applicable, calculated and determined by the last sample received in a Sample Delivery Group.

13
10/19

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

RECEIVE DATE: 10/17/98
QUOTE NUMBER: 98-00070800000501112
ORDER NUMBER: 33902

SAMPLE ID	TURNAROUND** TIME	ANALYSIS	COMPUCHEM NUMBER
PZ-17D ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914770
PZ-17I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914773
PZ-19I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914735
PZ-20D ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914736
PZ-21I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914733
PZ-22I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914731
PZ-7I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914741
PZ-8D ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914766
PZ-8I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914765
PZ-9D ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914767
SPARGEH2O ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914776
TBLK101498 ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914747

914888
PZ-15I
added
once ID
confirmed
JE 10/19

JE 10/19

** Please note that turnaround time and sample due dates will be, whenever applicable, calculated and determined by the last sample received in a Sample Delivery Group.

CompuChem
WATER BATCH SHEET

RFA 254

Date Batched 10/20/98
Case 33902.25403
Instrument Code

LINKER W8260 TAT 10 SOW

	CCN	CLIENT ID	QC SAMPLE TYPE	QC SAMPLE ORIGINAL	pH	TIME	DATE RUN	INST. #	OPERATOR	H/T	VOLUME/ INSTRUCTIONS	SCREEN BOTTLE #	ANALYSIS BOTTLE #
1)	914771		SS		–	1513	10.24.98	54	2347		1355/1046 914777=[illegible]	of	of
2)	914772		SS		–	1548	↓	↓	↓		↓	of	of
3)	914770	PZ-17D			1	1101	102398	56	2361	10/29		of	of
4)	914773	PZ-17I			1	1343					350µL	of	of
5)	914774	MWA-1			1	1421					750µL	of	of
6)	914775	MWA-4			1	1500					15µL	of	of
7)	914776	SPARGE HZ8 RN 10/20/98			1	1540						of	of
8)	914777	MW-20S			5	1142				10/28	RN	of	of
9)	914888	PZ-15I			1	1307	↓	↓	↓		↓	of	of
10)	915062	VLCS71	LCS		–	1002	102398	56	2361			of	of
11)	914770R1				–	0206	10.24.98	54	2230		1.5ml	of	of
12)	914773R1				–	0236					350µL	of	of
13)	914774R1				–	0307	↓				~~750µL~~ 450µL	of	of
14)	914776R1				–	1427	10.24.98	54	2347		RN	of	of
15)	914775R1				–	0337	10.24.98	54	2230		~~15µL~~ 30µL	of	of
16)	914888R1				–	1340	↓	↓	↓		~~RN~~ 10.5mL	of	of
17)	914773R2				–	1309	10.24.98	54	2347		630µL	of	of
18)	916243	VLCS34	LCS		–	1213	10.24.98	54	2347			of	of
19)												of	of
20)												of	of
21)												of	of
22)												of	of
23)												[illegible]	of

Relinquished By Ref 2 Date 102398 Received By [illegible] Date 102398
Relinquished By [illegible] Date 102398 Received By [illegible] Date 102398
Relinquished By [illegible] Date 102398 Received By [illegible] Date 102398
Ref 2 10.24.98 KP 10.24.98

Log Page Updated KP 10.24.98 Ref 2 10.24.98

Mark

COMPUCHEM
INTERNAL CHAIN-OF-CUSTODY

Laboratory: VOA

Requested By: KM

Water ✓ Soil ____ P.E. ____

Date: 10/20/98

Shift: 1 2 Sat
circle one

EPA ____ Commercial ✓

	CCN	RECEIPT DATE	PRES.	PARAMETER	RECEIVING USE ONLY BOTTLE NUMBER
1	914770	10/17			1+2 of 2
2	773				1+2 of 2
3	774				1+2 of 2
4	775				1+2 of 2
5	776				1+2 of 2
6	777				2+3 of 3
7	888				1+2 of 2
8					of
9					of
10					of
11					of
12					of
13					of
14					of
15					of
16					of
17					of
18					of
19					of
20					of

Relinquished
By: R Berry 3:55 Date: 10/20/98

Received
By: RT Z Date: 102098

Relinquished
By: ____ Date: ____

Received
By: ____ Date: ____

Comments:

CompuChem Receiving Log

lient: Chrysler LBG
rder #: 33902
roject: RFA #254
uote #: 98-7080
ccount #: 50112

Received on: 10-17-98 # of COC's: 5
Delivered by: FED-EX
Freight #: See Various COC's
Subcontract Y / (N)
TAT: Verbal _____ Hardcopy 10 day

PPS / (RFA #) 254 Page 1 of 3
Lab Instructions: TCL VOCs

SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	PH
25401	1	E101498-1 (EB)	914726	3-60ml VOA	TCL VOA	1356	1	10/14/98	WA	N/A
	2	MWC-1	729							
	3	MWB-1	730							
	4	PZ-22I	731							
	5	MWB-4 *	732							
	6	PZ-21I	733							
	7	MW-19S	734							
	8	~~MW~~ PZ-19I	735							
	9	PZ-20D *	736							
	10	MW-18S	737							
	11	MWB-2 *	738							
	12	MWC-2	739							
	13	MW-7S	740							
	14	PZ-7I	741							
	15	MWB-5	742							
	16	MWA-5	743							
	17	MWA-6	744							
	18	PZ-13I	745							
	19	MWA-6 DUP	746							
25402	20	TBLK101498 (TB)	747	2-60ml VOA						

Logged In By: Melissa Stu
Order Entered By: Melissa Stu
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition (Y) / N
Holding Blank(s): Counter / Page / CCN's /
Temperature(s) 4 °C

CompuChem Receiving Log

lient : Chrysler
rder # 33902
roject : RFA 254
uote # 98-7080
ccount # 501112

Received on : 10/17/98 # of COC's
Delivered by : Federal Express
Freight #
Subcontract Y / N see pg 1
TAT : Verbal Hardcopy 10 day

PPS / RFA # A
Lab Instructions : see pg 1

Page 2 of 3

SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
25402	21	PZ-12I	914750	3-60ml V	TCL VOA	1356	1	10/14/98	WA	NA
	22	PZ-12D	914751							
	23	MW-15S	752	2-60ml V						
	24	FE101498-2	753							
25408	25	PZ-15I	914888							
25402	26 25	MW-11S	914754							
	27 26	MW-11SDUP	755							
	28 27	MWB-3	756							
	29 28	MWC-3	757							
25401	30 29	MWA-3 (MS/MSD)	758	4-60ml-V						
25402	31 30	PZ-14I	759	2-60ml-V						
	32 31	MWA-2 (MS/MSD)	760	4-60ml-V						
	33 32	PZ-16D	761	2-60ml VOA						
	34 33	MWB-6	762					10/15/98		
	35 34	MW-8S	763							
	36 35	FE101598-3	764							
	37 36	PZ-8I	765							
	38 37	PZ-8D	766							
	39 38	PZ-9D	767							
	40 39	MW-10S	768							

Logged In By : Melissa St 10/17/98

Order Entered By : Melissa St

Cyanide samples checked for sulfide and chlorine Y / NA

Received in good condition Y / N

Holding Blank(s) : Counter / Page / CCN's /

Temperature(s) 4 °C

CompuChem Receiving Log

ient : Chrysler
rder # 1
oject :
uote # see pg 1
ccount #

Received on : _____ # of COC's _____
Delivered by : 1
Freight # _____
Subcontract Y / N see pg 1
TAT : Verbal _____ Hardcopy _____

PPS / RFA # _____ Page 3 of 3
Lab Instructions : 1
see pg 1

SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
25402	41 40	PZ-10I	914769	2-60ml V	TCL VOA	1356	1	10/15/98	WA	N/A
25403	42 41	PZ-17D	914770							
	43 42	PZ-17I	914773							
	44 43	MWA-1	914774							
	45 44	MWA-4	914775							
	46 45	SPARGE H20	914776							
	47 46	MW-20S	914777	3-60ml V				10/14/98		
	DC 10/19/98									

MS 10/16/98

ogged In By : Melissa St[illegible]
Order Entered By : Melissa St[illegible]
yanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N _____
olding Blank(s) : Counter / Page _____ / _____ CCN's _____ / _____
Temperature(s) 4 °C

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-20S

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914777

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014777A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	10	2	JB
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8	3	
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8	6	
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1	0.6	J
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-20S

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914777

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014777A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-20SMS

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914771

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014771A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5	6	
75-01-4	Vinyl Chloride	1	6	
75-00-3	Chloroethane	0.5	6	
75-09-2	Methylene Chloride	15	6	JB
75-35-4	1,1-Dichloroethene	0.8	6	
75-34-3	1,1-Dichloroethane	0.5	6	
67-66-3	Chloroform	0.8	6	
107-06-2	1,2-Dichloroethane	0.8	5	
71-55-6	1,1,1-Trichloroethane	0.8	8	
56-23-5	Carbon Tetrachloride	1	6	
75-27-4	Bromodichloromethane	0.5	5	
10061-01-5	cis-1,3-Dichloropropene	0.5	5	
79-01-6	Trichloroethene	0.8	10	
124-48-1	Dibromochloromethane	0.5	5	
79-00-5	1,1,2-Trichloroethane	0.8	5	
71-43-2	Benzene	0.8	6	
10061-02-6	trans-1,3-Dichloropropene	0.8	4	
75-25-2	Bromoform	0.5	5	
127-18-4	Tetrachloroethene	0.8	5	
79-34-5	1,1,2,2-Tetrachloroethane	0.5	6	
108-88-3	Toluene	0.8	5	
108-90-7	Chlorobenzene	0.5	5	
100-41-4	Ethylbenzene	0.5	6	
100-42-5	Styrene	0.5	5	
78-87-5	1,2-Dichloropropane	0.8	5	
74-87-3	Chloromethane	1	6	
75-15-0	Carbon disulfide	0.5	6	
67-64-1	Acetone	5	24	B
108-10-1	4-Methyl-2-pentanone	2	25	
591-78-6	2-hexanone	2	26	
78-93-3	2-butanone	3	24	
156-60-5	trans-1,2-Dichloroethene	0.8	6	
156-59-2	cis-1,2-Dichloroethene	0.5	6	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-20SMS

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914771

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014771A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5	18	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-20SMSD

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914772

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014772A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5	5	
75-01-4	Vinyl Chloride	1	5	
75-00-3	Chloroethane	0.5	6	
75-09-2	Methylene Chloride	15	7	JB
75-35-4	1,1-Dichloroethene	0.8	5	
75-34-3	1,1-Dichloroethane	0.5	5	
67-66-3	Chloroform	0.8	5	
107-06-2	1,2-Dichloroethane	0.8	5	
71-55-6	1,1,1-Trichloroethane	0.8	7	
56-23-5	Carbon Tetrachloride	1	5	
75-27-4	Bromodichloromethane	0.5	5	
10061-01-5	cis-1,3-Dichloropropene	0.5	5	
79-01-6	Trichloroethene	0.8	8	
124-48-1	Dibromochloromethane	0.5	5	
79-00-5	1,1,2-Trichloroethane	0.8	5	
71-43-2	Benzene	0.8	5	
10061-02-6	trans-1,3-Dichloropropene	0.8	5	
75-25-2	Bromoform	0.5	5	
127-18-4	Tetrachloroethene	0.8	5	
79-34-5	1,1,2,2-Tetrachloroethane	0.5	6	
108-88-3	Toluene	0.8	5	
108-90-7	Chlorobenzene	0.5	5	
100-41-4	Ethylbenzene	0.5	5	
100-42-5	Styrene	0.5	5	
78-87-5	1,2-Dichloropropane	0.8	5	
74-87-3	Chloromethane	1	6	
75-15-0	Carbon disulfide	0.5	6	
67-64-1	Acetone	5	24	B
108-10-1	4-Methyl-2-pentanone	2	25	
591-78-6	2-hexanone	2	28	
78-93-3	2-butanone	3	26	
156-60-5	trans-1,2-Dichloroethene	0.8	5	
156-59-2	cis-1,2-Dichloroethene	0.5	5	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-20SMSD

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914772

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014772A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5	17	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-1

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914774

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014774B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 56.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	28		U
75-01-4	Vinyl Chloride	56		U
75-00-3	Chloroethane	28		U
75-09-2	Methylene Chloride	840	45	JB
75-35-4	1,1-Dichloroethene	42		U
75-34-3	1,1-Dichloroethane	28	63	
67-66-3	Chloroform	42		U
107-06-2	1,2-Dichloroethane	42		U
71-55-6	1,1,1-Trichloroethane	42	470	
56-23-5	Carbon Tetrachloride	56		U
75-27-4	Bromodichloromethane	28		U
10061-01-5	cis-1,3-Dichloropropene	28		U
79-01-6	Trichloroethene	42	150	
124-48-1	Dibromochloromethane	28		U
79-00-5	1,1,2-Trichloroethane	42		U
71-43-2	Benzene	42		U
10061-02-6	trans-1,3-Dichloropropene	42		U
75-25-2	Bromoform	28		U
127-18-4	Tetrachloroethene	42	770	
79-34-5	1,1,2,2-Tetrachloroethane	28		U
108-88-3	Toluene	42		U
108-90-7	Chlorobenzene	28		U
100-41-4	Ethylbenzene	28		U
100-42-5	Styrene	28		U
78-87-5	1,2-Dichloropropane	42		U
74-87-3	Chloromethane	56		U
75-15-0	Carbon disulfide	28		U
67-64-1	Acetone	280	67	JB
108-10-1	4-Methyl-2-pentanone	110		U
591-78-6	2-hexanone	110		U
78-93-3	2-butanone	170		U
156-60-5	trans-1,2-Dichloroethene	42		U
156-59-2	cis-1,2-Dichloroethene	28	150	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-1

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914774

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014774B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 56.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	28		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-4

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914775

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014775B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 833.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	420		U
75-01-4	Vinyl Chloride	830		U
75-00-3	Chloroethane	420	940	
75-09-2	Methylene Chloride	12000	870	JB
75-35-4	1,1-Dichloroethene	620		U
75-34-3	1,1-Dichloroethane	420		U
67-66-3	Chloroform	620		U
107-06-2	1,2-Dichloroethane	620		U
71-55-6	1,1,1-Trichloroethane	620		U
56-23-5	Carbon Tetrachloride	830		U
75-27-4	Bromodichloromethane	420		U
10061-01-5	cis-1,3-Dichloropropene	420		U
79-01-6	Trichloroethene	620	13000	
124-48-1	Dibromochloromethane	420		U
79-00-5	1,1,2-Trichloroethane	620		U
71-43-2	Benzene	620	210	J
10061-02-6	trans-1,3-Dichloropropene	620		U
75-25-2	Bromoform	420		U
127-18-4	Tetrachloroethene	620		U
79-34-5	1,1,2,2-Tetrachloroethane	420		U
108-88-3	Toluene	620		U
108-90-7	Chlorobenzene	420		U
100-41-4	Ethylbenzene	420		U
100-42-5	Styrene	420		U
78-87-5	1,2-Dichloropropane	620		U
74-87-3	Chloromethane	830	560	J
75-15-0	Carbon disulfide	420		U
67-64-1	Acetone	4200	4100	JB
108-10-1	4-Methyl-2-pentanone	1700		U
591-78-6	2-hexanone	1700	470	J
78-93-3	2-butanone	2500	2100	JB
156-60-5	trans-1,2-Dichloroethene	620		U
156-59-2	cis-1,2-Dichloroethene	420	7000	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-4

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914775

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014775B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 833.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	420		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-15I

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914888

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014888A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	1		U
75-01-4	Vinyl Chloride	2		U
75-00-3	Chloroethane	1		U
75-09-2	Methylene Chloride	38	3	JB
75-35-4	1,1-Dichloroethene	2	0.7	J
75-34-3	1,1-Dichloroethane	1	10	
67-66-3	Chloroform	2		U
107-06-2	1,2-Dichloroethane	2	1	J
71-55-6	1,1,1-Trichloroethane	2	9	
56-23-5	Carbon Tetrachloride	2		U
75-27-4	Bromodichloromethane	1		U
10061-01-5	cis-1,3-Dichloropropene	1		U
79-01-6	Trichloroethene	2	4	
124-48-1	Dibromochloromethane	1		U
79-00-5	1,1,2-Trichloroethane	2		U
71-43-2	Benzene	2		U
10061-02-6	trans-1,3-Dichloropropene	2		U
75-25-2	Bromoform	1		U
127-18-4	Tetrachloroethene	2	33	
79-34-5	1,1,2,2-Tetrachloroethane	1		U
108-88-3	Toluene	2		U
108-90-7	Chlorobenzene	1		U
100-41-4	Ethylbenzene	1		U
100-42-5	Styrene	1		U
78-87-5	1,2-Dichloropropane	2		U
74-87-3	Chloromethane	2		U
75-15-0	Carbon disulfide	1	3	
67-64-1	Acetone	12	4	JB
108-10-1	4-Methyl-2-pentanone	5		U
591-78-6	2-hexanone	5		U
78-93-3	2-butanone	8		U
156-60-5	trans-1,2-Dichloroethene	2		U
156-59-2	cis-1,2-Dichloroethene	1	0.8	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-15I

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914888

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014888A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	1		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-17D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914770

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014770A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	10	1	JB
75-35-4	1,1-Dichloroethene	0.8	2	
75-34-3	1,1-Dichloroethane	0.5	3	
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8	17	
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8	270	E
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8	120	E
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5	0.5	
67-64-1	Acetone	5	1	JB
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8	0.5	J
156-59-2	cis-1,2-Dichloroethene	0.5	60	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-17D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914770

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014770A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-17DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914770

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014770B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 17.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	8		U
75-01-4	Vinyl Chloride	17		U
75-00-3	Chloroethane	8		U
75-09-2	Methylene Chloride	260		U
75-35-4	1,1-Dichloroethene	13		U
75-34-3	1,1-Dichloroethane	8		U
67-66-3	Chloroform	13		U
107-06-2	1,2-Dichloroethane	13		U
71-55-6	1,1,1-Trichloroethane	13	16	D
56-23-5	Carbon Tetrachloride	17		U
75-27-4	Bromodichloromethane	8		U
10061-01-5	cis-1,3-Dichloropropene	8		U
79-01-6	Trichloroethene	13	340	D
124-48-1	Dibromochloromethane	8		U
79-00-5	1,1,2-Trichloroethane	13		U
71-43-2	Benzene	13		U
10061-02-6	trans-1,3-Dichloropropene	13		U
75-25-2	Bromoform	8		U
127-18-4	Tetrachloroethene	13	80	D
79-34-5	1,1,2,2-Tetrachloroethane	8		U
108-88-3	Toluene	13		U
108-90-7	Chlorobenzene	8		U
100-41-4	Ethylbenzene	8		U
100-42-5	Styrene	8		U
78-87-5	1,2-Dichloropropane	13		U
74-87-3	Chloromethane	17		U
75-15-0	Carbon disulfide	8		U
67-64-1	Acetone	85		U
108-10-1	4-Methyl-2-pentanone	34		U
591-78-6	2-hexanone	34		U
78-93-3	2-butanone	51		U
156-60-5	trans-1,2-Dichloroethene	13		U
156-59-2	cis-1,2-Dichloroethene	8	72	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-17DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914770

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014770B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 17.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	8		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-17I

Project: RFA254 | Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER | Lab Sample ID: 914773

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: C2R14773A54.D

Level: (low/med) LOW | Date Received: 10/17/98

% Moisture: not dec. _____ | Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) | Dilution Factor: 40.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	20		U
75-01-4	Vinyl Chloride	40		U
75-00-3	Chloroethane	20		U
75-09-2	Methylene Chloride	600	37	JB
75-35-4	1,1-Dichloroethene	30		U
75-34-3	1,1-Dichloroethane	20		U
67-66-3	Chloroform	30		U
107-06-2	1,2-Dichloroethane	30		U
71-55-6	1,1,1-Trichloroethane	30	12	J
56-23-5	Carbon Tetrachloride	40		U
75-27-4	Bromodichloromethane	20		U
10061-01-5	cis-1,3-Dichloropropene	20		U
79-01-6	Trichloroethene	30	66	
124-48-1	Dibromochloromethane	20		U
79-00-5	1,1,2-Trichloroethane	30		U
71-43-2	Benzene	30		U
10061-02-6	trans-1,3-Dichloropropene	30		U
75-25-2	Bromoform	20		U
127-18-4	Tetrachloroethene	30	780	
79-34-5	1,1,2,2-Tetrachloroethane	20		U
108-88-3	Toluene	30		U
108-90-7	Chlorobenzene	20		U
100-41-4	Ethylbenzene	20		U
100-42-5	Styrene	20		U
78-87-5	1,2-Dichloropropane	30		U
74-87-3	Chloromethane	40		U
75-15-0	Carbon disulfide	20		U
67-64-1	Acetone	200	59	JB
108-10-1	4-Methyl-2-pentanone	80		U
591-78-6	2-hexanone	80		U
78-93-3	2-butanone	120		U
156-60-5	trans-1,2-Dichloroethene	30		U
156-59-2	cis-1,2-Dichloroethene	20	23	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-17I

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914773

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14773A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 40.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	20		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SPARGEH2O

Project: RFA254 | Date Sampled: 10/15/98

Lab Code: COMPU | Case No.: 33902 | SAS No.: | SDG No.: 25403

Matrix: (soil/water) WATER | Lab Sample ID: 914776

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CR014776A54.D

Level: (low/med) LOW | Date Received: 10/17/98

% Moisture: not dec. _____ | Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) | Dilution Factor: 1.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	2	JB
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8	0.3	J
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8	5	
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	5	B
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3	1	J
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SPARGEH2O

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: 914776

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014776A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKKS

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Lab File ID: CB981024A54.D Lab Sample ID: VBLKKS

Date Analyzed: 10/24/98 Time Analyzed: 1121

GC Column:SP624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50054

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS34	916243	CN016243A54.D	1213
02	PZ-17I	914773	C2R14773A54.D	1309
03	PZ-15I	914888	CR014888A54.D	1340
04	SPARGEH2O	914776	CR014776A54.D	1427
05	MW-20SMS	914771	CN014771A54.D	1518
06	MW-20SMSD	914772	CN014772A54.D	1548
07				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKKS

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: VBLKKS

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981024A54.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	0.6	J
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	0.9	J
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKKS

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: VBLKKS

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981024A54.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKLT

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Lab File ID: CB981023B54.D Lab Sample ID: VBLKLT

Date Analyzed: 10/23/98 Time Analyzed: 2156

GC Column:SP624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50054

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS06	916198	CN016198B54.D	2241
02	PZ-17DDL	914770	CR014770B54.D	0206
03	MWA-1	914774	CR014774B54.D	0307
04	MWA-4	914775	CR014775B54.D	0337
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08				
09				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKLT

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: VBLKLT

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981023B54.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	1	J
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	1	J
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3	0.5	J
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKLT

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: VBLKLT

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981023B54.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKRC

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Lab File ID: CB981023A56.D Lab Sample ID: VBLKRC

Date Analyzed: 10/23/98 Time Analyzed: 0906

GC Column:DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS71	915062	CN015062A56.D	1002
02	PZ-17D	914770	CN014770A56.D	1101
03	MW-20S	914777	CN014777A56.D	1142
04				
05				
06				
07				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKRC

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: VBLKRC

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981023A56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	10	0.9	J
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	2	J
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKRC

Project: RFA254 Date Sampled: _____

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix: (soil/water) WATER Lab Sample ID: VBLKRC

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB981023A56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

	SAMPLE NO.	SMC1 (DBF) #	SMC2 (TOL) #	SMC3 (BFB) #	OTHER	TOT OUT
01	MW-20S	110	111	82		0
02	MW-20SMS	102	96	92		0
03	MW-20SMSD	98	92	85		0
04	MWA-1	91	92	84		0
05	MWA-4	95	96	88		0
06	PZ-15I	103	95	84		0
07	PZ-17D	117	128	90		0
08	PZ-17DDL	100	98	93		0
09	PZ-17I	101	95	87		0
10	SPARGEH2O	99	93	76		0
11	VBLKKS	94	97	92		0
12	VBLKLT	101	96	91		0
13	VBLKRC	114	108	79		0
14	VLCS06	97	98	96		0
15	VLCS34	88	96	99		0
16	VLCS71	102	97	100		0
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

			QC LIMITS
SMC1	(DBF)	= Dibromofluoromethane	(70-130)
SMC2	(TOL)	= Toluene-d8	(70-130)
SMC3	(BFB)	= Bromofluorobenzene	(70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix Spike - Sample No.: MW-20S

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Bromomethane	5.00	0.000	5.89	118	20-150
Vinyl Chloride	5.00	0.000	5.50	110	20-150
Chloroethane	5.00	0.000	5.93	119	20-150
Methylene Chloride	5.00	1.90	6.18	86	20-300
1,1-Dichloroethene	5.00	0.000	5.82	116	20-150
1,1-Dichloroethane	5.00	0.000	5.73	115	20-150
Chloroform	5.00	0.000	5.76	115	20-150
1,2-Dichloroethane	5.00	0.000	4.88	98	20-150
1,1,1-Trichloroethane	5.00	2.89	7.75	97	20-150
Carbon Tetrachloride	5.00	0.000	5.86	117	20-150
Bromodichloromethane	5.00	0.000	5.14	103	20-150
cis-1,3-Dichloropropene	5.00	0.000	4.68	94	20-150
Trichloroethene	5.00	5.84	9.63	76	20-150
Dibromochloromethane	5.00	0.000	5.01	100	20-150
1,1,2-Trichloroethane	5.00	0.000	5.21	104	20-150
Benzene	5.00	0.000	5.72	114	20-150
trans-1,3-Dichloroprope	5.00	0.000	4.44	89	20-150
Bromoform	5.00	0.000	5.01	100	20-150
Tetrachloroethene	5.00	0.000	5.45	109	20-150
1,1,2,2-Tetrachloroetha	5.00	0.000	5.60	112	20-150
Toluene	5.00	0.000	5.33	106	20-150
Chlorobenzene	5.00	0.000	5.41	108	20-150
Ethylbenzene	5.00	0.000	5.64	113	20-150
Styrene	5.00	0.000	5.40	108	20-150
1,2-Dichloropropane	5.00	0.000	5.17	103	20-150
Chloromethane	5.00	0.555	5.72	103	20-150
Carbon disulfide	5.00	0.000	6.09	122	20-150
Acetone	25.00	0.000	23.84	95	20-300
4-Methyl-2-pentanone	25.00	0.000	25.47	102	20-300
2-hexanone	25.00	0.000	25.61	102	20-300

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix Spike - Sample No.: MW-20S

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
2-butanone	25.00	0.000	24.19	97	20-300
trans-1,2-Dichloroethen	5.00	0.000	5.99	120	20-150
cis-1,2-Dichloroethene	5.00	0.000	5.71	114	20-150
Xylene (total)	15.00	0.000	18.21	121	20-150

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25403

Matrix Spike - Sample No.: MW-20S

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	5.00	5.45	109	8	25	20-150
Vinyl Chloride	5.00	5.29	106	4	25	20-150
Chloroethane	5.00	5.84	117	2	25	20-150
Methylene Chloride	5.00	6.89	100	15	25	20-300
1,1-Dichloroethene	5.00	5.45	109	6	25	20-150
1,1-Dichloroethane	5.00	5.36	107	7	25	20-150
Chloroform	5.00	5.41	108	6	25	20-150
1,2-Dichloroethane	5.00	4.65	93	5	25	20-150
1,1,1-Trichloroethane	5.00	6.74	77	23	25	20-150
Carbon Tetrachloride	5.00	5.29	106	10	25	20-150
Bromodichloromethane	5.00	4.90	98	5	25	20-150
cis-1,3-Dichloropropene	5.00	4.66	93	1	25	20-150
Trichloroethene	5.00	8.51	53	36*	25	20-150
Dibromochloromethane	5.00	5.01	100	0	25	20-150
1,1,2-Trichloroethane	5.00	5.22	104	0	25	20-150
Benzene	5.00	5.44	109	4	25	20-150
trans-1,3-Dichloroprope	5.00	4.98	100	12	25	20-150
Bromoform	5.00	4.76	95	5	25	20-150
Tetrachloroethene	5.00	5.09	102	7	25	20-150
1,1,2,2-Tetrachloroetha	5.00	6.36	127	12	25	20-150
Toluene	5.00	5.05	101	5	25	20-150
Chlorobenzene	5.00	5.21	104	4	25	20-150
Ethylbenzene	5.00	5.32	106	6	25	20-150
Styrene	5.00	4.90	98	10	25	20-150
1,2-Dichloropropane	5.00	5.12	102	1	25	20-150
Chloromethane	5.00	5.57	100	3	25	20-150
Carbon disulfide	5.00	5.70	114	7	25	20-150
Acetone	25.00	24.18	97	2	25	20-300
4-Methyl-2-pentanone	25.00	24.62	98	4	25	20-300
2-hexanone	25.00	27.73	111	8	25	20-300