Analytical Data Package For

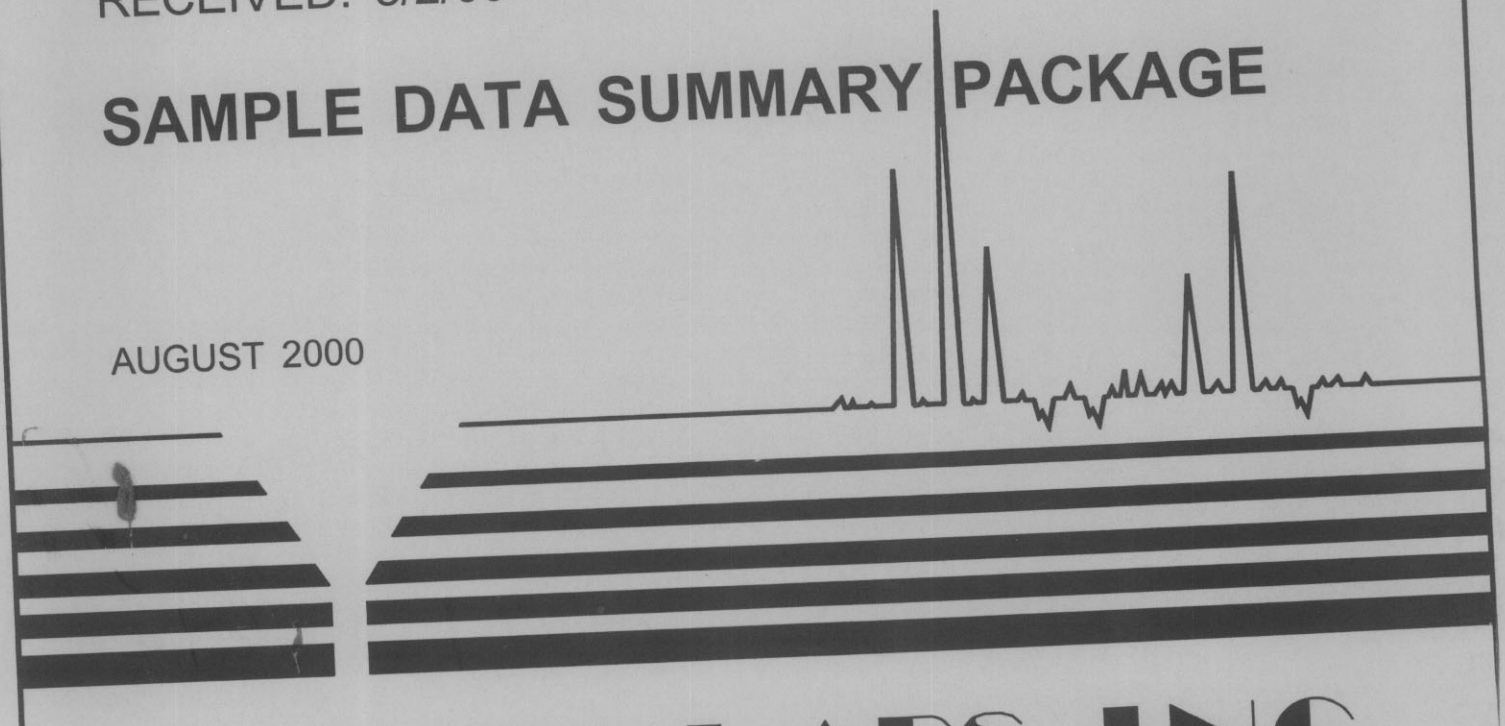
100 Comm St
gw
August/2000

NYS DEC
REGION 1
CONTRACT NO.:C003786
CASE NO.: SH100
SDG NO.: 0802

Water Samples
RECEIVED: 8/2/00

SAMPLE DATA SUMMARY PACKAGE

AUGUST 2000



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

TABLE OF CONTENTS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 1
SAMPLES RECEIVED: 8/2/00
CONTRACT: C003786
CASE: SH100
SDG #: 0802

H2M LABS, INC.

1. NYS DEC SUMMARY FORMS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
NYS DEC
REGION 1
SAMPLES RECEIVED: 8/2/00
SDG #: 0802
CONTRACT: C003786
CASE: SH100

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		VOA GC/MS	BNA GC/MS	HERB	PEST/ PCB	METALS	OTHER
D00703	20000802-063	X					
D00704	20000802-064	X					
D00705	20000802-065	X					
D00707	20000802-066	X					
D00709	20000802-067	X					

* Check Appropriate Boxes
* CLP, Non-CLP (Please indicate year of protocol) 10/95
* TCL/TAL, HCL, TS

S 0003

VOLATILE SAMPLE ANALYSIS SUMMARY

Sample ID	Matrix	Date Collected	Date Received	Level	Date Analyzed
D00703	water	02-Aug-00	02-Aug-00	LOW	05-Aug-00
D00704	water	02-Aug-00	02-Aug-00	LOW	05-Aug-00
D00705	water	02-Aug-00	02-Aug-00	LOW	05-Aug-00
D00707	water	02-Aug-00	02-Aug-00	LOW	05-Aug-00
D00709	water	02-Aug-00	02-Aug-00	LOW	05-Aug-00

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

4985

EXTERNAL CHAIN OF CUSTODY

CLIENT: NYSDEC | H2M SDG NO: 0802

PROJECT NAME/NUMBER

SAMPLERS: (signature)/Client NYSDEC Jamie Ascher Bldg. 40 SUNY Stony Brook 11790

DELIVERABLES: CS-70

TURNAROUND TIME: 30 Days

NOTES: PUTCL

Project Contact:

Phone Number:

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
8/2/00	1220	gw	SH1000802D00703	2	✓					2000802-063	
	1140		SH1000802D00704	2	✓					-064	
	1150		SH1000802D00705	2	✓					-065	
	1120		SH1000802D00707	2	✓					-066	
	1210		SH1000802D00709	2	✓					-067	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) Jamie Ascher	8/2/00	1245	Received by: (Signature)	8/2/00	1245

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered ___ Airbill# ___
2. Ambient or chilled Transferred from cooler
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

S 0006

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: DEC DELIVERABLES: CS-70 TURN AROUND TIME: 30 Days

SDG #: 0802 CASE #: SH100 MATRIX: GW pH CHECK Y or (N)

REMARKS:

RECEIVED BY: LSD SIGNATURE: [signature] DATE: 8/2/00 TIME: 1245

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	D00703	20000802-063	8-2-00	DH	2	PLTCL
2	D00704	064	↓	↓	↓	↓
3	D00705	065				
4	D00707	066				
5	D00709	067				
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

LSD 8/2/00

P 0184
S 0007

H2M LABS, INC.

CLIENT: DEC

SDG #: 0802

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
8/2/00	1430	SIGN [signature]	SIGN [signature]	DH	analyses	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 8/2/00
CONTRACT #: C003786
CASE #: SH100
SDG#: 0802

For Samples:

D00703
D00704
D00705
D00707
D00709

The above water samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 95-1 for the TCL volatile organic analytes.

QC DATA / CALIBRATION

All QC data and the calibrations met the requirements of the protocol.

SAMPLE ANALYSIS

No problems were encounered.

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 detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: August 30, 2000

****
* *
* *
****

Ursula Middel
Technical Manager

H2M LABS, INC.

4. SAMPLE REPORTS
4.1 VOLATILES

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$\frac{(330\ U)}{D} \times df \quad \text{where } D = \frac{100 - \%\ \text{moisture}}{100}$$

and df = dilution factor

For example, at 24% moisture, $D = \frac{100-24}{100} = 0.76$

$\frac{(330\ U)}{.76} \times 10 = 4300\ U$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory-defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceeds 200 ug/l or the peak representing the two coeluting isomers on that GC column exceeds 400 ug/l. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceeds 400 ug/l.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The Laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D00703

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: _____ SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: 20000802-063

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15954.D

Level: (low/med) LOW Date Received: 08/02/00

% Moisture: not dec. _____ Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	2	J
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

S 0014

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D00703

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: _____ SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: 20000802-063

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15954.D

Level: (low/med) LOW Date Received: 08/02/00

% Moisture: not dec. _____ Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0015

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D00704

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: _____ SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: 20000802-064

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15955.D

Level: (low/med) LOW Date Received: 08/02/00

% Moisture: not dec. _____ Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	2	J
540-59-0	1,2-Dichloroethene (total)	13	
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	8	J
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	12	
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	160	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

S 0016

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D00704

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: _____ SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: 20000802-064

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15955.D

Level: (low/med) LOW Date Received: 08/02/00

% Moisture: not dec. _____ Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0017

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D00705

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: _____ SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: 20000802-065

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15956.D

Level: (low/med) LOW Date Received: 08/02/00

% Moisture: not dec. _____ Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	4	J
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	4	J
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	6	J
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	110	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

S 0018

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D00705

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: _____ SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: 20000802-065

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15956.D

Level: (low/med) LOW Date Received: 08/02/00

% Moisture: not dec. _____ Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0019

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D00707

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: 20000802-066

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15957.D

Level: (low/med) LOW Date Received: 08/02/00

% Moisture: not dec. Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

S 0020

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D00707

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: _____ SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: 20000802-066

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15957.D

Level: (low/med) LOW Date Received: 08/02/00

% Moisture: not dec. _____ Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0021

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D00709

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: 20000802-067

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15958.D

Level: (low/med) LOW Date Received: 08/02/00

% Moisture: not dec. Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	10 U
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	10 U
75-35-4	1,1-Dichloroethene	10 U
75-34-4	1,1-Dichloroethane	10 U
540-59-0	1,2-Dichloroethene (total)	10 U
78-93-3	2-Butanone	10 U
67-66-3	Chloroform	10 U
107-06-2	1,2-Dichloroethane	10 U
71-55-6	1,1,1-Trichloroethane	10 U
56-23-5	Carbon Tetrachloride	10 U
75-27-4	Bromodichloromethane	10 U
78-87-5	1,2-Dichloropropane	10 U
10061-01-5	cis-1,3-Dichloropropene	10 U
79-01-6	Trichloroethene	10 U
71-43-2	Benzene	10 U
124-48-1	Dibromochloromethane	10 U
10061-02-6	trans-1,3-Dichloropropene	10 U
79-00-5	1,1,2-Trichloroethane	10 U
75-25-2	Bromoform	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
591-78-6	2-Hexanone	10 U
127-18-4	Tetrachloroethene	10 J
79-34-5	1,1,2,2-Tetrachloroethane	10 U
108-88-3	Toluene	10 U
108-90-7	Chlorobenzene	10 U
100-41-4	Ethylbenzene	10 U
100-42-5	Styrene	10 U
1330-20-7	Xylene (total)	10 U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D00709

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: _____ SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: 20000802-067

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15958.D

Level: (low/med) LOW Date Received: 08/02/00

% Moisture: not dec. _____ Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0023

5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: _____ SDG No.: 0802

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK8/5/00	104	101	99	0
02	D00703	103	104	105	0
03	D00704	105	101	105	0
04	D00705	107	101	101	0
05	D00707	106	101	101	0
06	D00709	106	103	103	0

				QC LIMITS
SMC1	(DCE)	=	1,2-Dichloroethane-d4	(76-114)
SMC2	(TOL)	=	Toluene-d8	(88-110)
SMC3	(BFB)	=	Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

6. BLANK SUMMARY DATA AND RESULTS

6.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK8/5/00

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: SDG No.: 0802

Lab File ID: P15936.D Lab Sample ID: VBLK8/5/00

Date Analyzed: 08/05/00 Time Analyzed: 10:51

GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: H5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	D00703	20000802-063	P15954.D	19:12
02	D00704	20000802-064	P15955.D	19:39
03	D00705	20000802-065	P15956.D	20:05
04	D00707	20000802-066	P15957.D	20:32
05	D00709	20000802-067	P15958.D	20:59

COMMENTS

S 0027

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK8/5/00

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: _____ SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: VBLK8/5/00

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15936.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK8/5/00

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: _____ SDG No.: 0802

Matrix: (soil/water) WATER Lab Sample ID: VBLK8/5/00

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P15936.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/05/00

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0029

7. INTERNAL STANDARD AREA DATA

7.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: C003786

Lab Code: 10478 Case No.: SH100 SAS No.: SDG No.: 0802

Lab File ID (Standard): P15935.D Date Analyzed: 08/05/00

Instrument ID: H5970-3 Time Analyzed: 10:24

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	272266	8.58	1085798	9.64	813196	13.93
	UPPER LIMIT	544532	8.08	2171596	9.14	1626392	13.43
	LOWER LIMIT	136133	9.08	542899	10.14	406598	14.43
	EPA SAMPLE NO.						
01	VBLK8/5/00	264618	8.56	1061207	9.62	815419	13.92
02	D00703	224513	8.57	865963	9.63	643237	13.93
03	D00704	221998	8.57	861053	9.62	654594	13.92
04	D00705	221784	8.58	885248	9.63	677986	13.93
05	D00707	216290	8.57	828926	9.64	665988	13.93
06	D00709	219839	8.57	883193	9.63	655164	13.94

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits