EA Laboratories

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33123

22 July 1996

Mr. Mike Dae
Chambers USA Waste Services Company
3001 Pioneer Drive
Seminar, GA 30080

Re: Tontitown Landfill (70110.01)

Dear Mr. Dae:

Enclosed is our report on the analysis of eleven water samples and one field blank collected for the Chambers - Tontitown Landfill project on 25 June 1996. The invoice is included.

Please contact me if you have any questions or require further information and refer to report 961008. Unless other arrangements are made, we reserve the right to dispose of your samples sixty (60) days from the date of this letter. We will retain the raw data for seven years from this date.

Sincerely,

R. Thomas Randall
Laboratory Project Manager

enclosure

LABORATORY DATA REPORT

Prepared for:

Chambers
Tontitown Landfill

Prepared by:

EA Laboratories
19 Loveton Circle
Sparks, Maryland 21152

Report 961008

July 1996

TABLE OF CONTENTS
Chambers - Tonitown Landfill
EA Laboratories Report No. 961008

TABLE OF CONTENTS

Chambers - Tonitown Landfill

EA Laboratories Report No. 961008

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1. NARRATIVE

EA Laboratories
ANALYTICAL NARRATIVE

Client: **Chambers USA**
Site: **Tontitown Landfill**
Project number: **70110.01**

EA Laboratories Report: **961008**
Laboratory Project Manager: **R. Thomas Randall**
Report Date: **22 July 1996**

This report contains the results of the analysis of eleven water samples and one field blank collected on 25 June 1996 in support of the referenced project.

SAMPLE RECEIPT

The samples,one field blank, and one trip blank arrived by Federal Express at EA Laboratories on 26 June1996. Upon receipt, the samples and blanks were inspected and compared with the chain-of-custody record. The samples and blanks were then logged into the laboratory computer system with assigned laboratory accession numbers and released for analysis.

Client Sample Designation	EA Lab Number
MW3	9609457
MW5	9609458
MW10	9609459
FIELD BLANK	9609460
MW1	9609461
MW1D	9609462
TRIP BLANK	9609463
MW4	9609464
MW7	9609465
MW6	9609466
MW8	9609467
MW2	9609468
MW11	9609469

Following this narrative section are a description of analytical methods (Table 1), a list of data qualifiers (Table 2), and the original chain-of-custody. Analytical results and quality control information are summarized in the appended data package which has been formatted to be consistent with the deliverable requirements of this project.

QUALITY CONTROL

The following sections are ordered as the data appears in this report. They contain observations made during sample analysis, summarize the results of quality control measurements, and address the impact on data usability based upon project Data Quality Objectives. For each fractional analysis the narrative includes:

EA Laboratories
ANALYTICAL NARRATIVE

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Laboratory Project Manager: **R. Thomas Randall**
Report Date: **22 July 1996**

- Sample chronology: This section summarizes the sample history by fraction including the sample preparation method and date, analytical method, and analysis date. Anything unusual about the samples, digestates, or extracts is identified. Holding time compliance is evaluated in this section.

- Laboratory method performance: All quality control criteria for method performance must be met for all target analytes for data to be reported. These criteria generally apply to instrument tune, calibration, method blanks, and Laboratory Control Samples (LCS). In some instances where method criteria fail, useable data can be obtained and are reported with client approval. The narrative will then include a thorough discussion of the impact on data quality.

- Sample performance: Quality control field samples are analyzed to determine any measurement bias due to the sample matrix based on evaluation of matrix spikes (MS), matrix spike duplicates (MSD), and laboratory duplicates (D). If acceptance criteria are not met, matrix interferences are confirmed either by reanalysis or by inspection of the LCS results to verify that laboratory method performance is in control. Data are reported with appropriate qualifiers or discussion.

VOLATILES by GC/MS - WATER (EA9609457-EA9609469)

Sample Chronology: The samples and the associated quality control samples were analyzed by SW-846 Methods 5030/8260 on 27-28 June and 1-2 July 1996 for the Appendix I analyte list. All holding times were met.

Laboratory Method Performance: All laboratory method performance criteria were met for the reported samples.

Sample Performance: All quality control criteria were met for the reported samples.

METALS - WATER (EA9609457-EA9609459,EA9609461-EA9462,EA9609464-EA9609469)

Sample Chronology: Eleven samples were prepared on 7 July 1996 and analyzed for total Appendix I metals (SW846 methods 6010/7060/7421/7740/7841) on 8-14 July 1996.

Laboratory Method Performance: All laboratory method performance criteria were met for the reported samples.

EA Laboratories
ANALYTICAL NARRATIVE

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EA Laboratories Report: **961008**
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Report Date: **22 July 1996**

Sample Performance:. The selenium (62.2%,62.3%) matrix spike/matrix spike duplicate recoveries were outside control limits (75-125%). These low recoveries may present a potential low recovery to the sample data for selenium. All remaining quality control criteria were met for the reported samples.

METALS - WATER (EA9609457-EA9609462,EA9609464-EA9609469)

Sample Chronology: Twelve samples were prepared on 8-15 July 1996 and analyzed for total calcium, iron, magnesium, manganese, mercury, potassium, and sodium (USEPA method 200.7) on 11-16 July 1996.

Laboratory Method Performance: All laboratory method performance criteria were met for the reported samples.

Sample Performance: All quality control criteria were met for the reported samples.

GENERAL CHEMISTRY - WATER (EA9609457-EA9609459,EA9609461-EA9609462,EA9609464-EA9609469)

Sample Chronology: Eleven samples were analyzed for the following USEPA methods. All holding times were met for the reported samples.

Parameter	Method#	EASample#s	Prep Date	Analysis Date
Sulfate	375.4	EA9609457-59,9461-62,9464-65	N/A	2 July 1996
Sulfate	375.4	EA9609466-69	N/A	8 July 1996
COD	410.4	All	N/A	27 June 1996
Ammonia	350.1	All	8 July 1996	9 July 1996
Nitrate+nitrite	353.2	All	N/A	27 June 1996
Nitrite	353.2	All	N/A	27 June 1996
Cyanide	335.3	EA9609457-59,61	28 June 1996	28 June 1996
Cyanide	335.3	EA9609462,64-69	2 July 1996	2 July 1996
TOC	415.1	All	N/A	1 July 1996
TDS	160.1	All	N/A	1 July 1996

EA Laboratories
ANALYTICAL NARRATIVE

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Chloride	325.2	All	N/A	8 July 1996
Alkalinity	310.1	All	N/A	9 July 1996

Bicarbonate values were calculated using the samples' temperature (estimated), pH, alkalinity, and TDS values.

Laboratory Method Performance: All laboratory method performance criteria were met for the reported samples.

Sample Performance: All quality control criteria were met for the reported samples.

CERTIFICATION OF RESULTS

The Laboratory certifies that this report meets the project requirements for analytical data as stated in the Analytical Task Order (ATO) and the chain-of-custody. In addition, the Laboratory certifies that the data as reported meet the Data Quality Objectives for precision, accuracy, and completeness specified for this project or as stated in EA Laboratories Quality Assurance program for other than the conditions detailed above. Release of the data contained in this report has been authorized by the appropriate Laboratory Manager as verified by the following signature.

for Joe Dembowski 22 July 1996
Phyllis A. Christopher, Production Manager

~~01~~ 03 7/24/96

TABLE 1. ANALYTICAL METHODS

Parameter	Method	Method Number	Matrix	Reference
SAMPLE PREPARATION				
Total Metals Digestion	Nitric Acid - Hydrochloric Acid	200.0	W	(4)
Total Metals Digestion (FAA/ICP)	Nitric Acid - Hydrochloric Acid	3010	W	(2)
Total Metals Digestion (GFAA)	Nitric Acid	3020	W	(2)
ORGANICS				
Volatile Organic Compounds	Gas Chromatography/Mass Spectrometry	8260	W	(2)
Total Organic Carbon	Oxidation - Infrared	415.1	W	(1)
Chemical Oxygen Demand	Colorimetric - Manual	410.4	W	(1)
METALS				
Antimony	Atomic Emission - ICP	6010	W	(2)
Arsenic	Atomic Absorption - Furnace	7060	W	(2)
Barium	Atomic Emission - ICP	6010	W	(2)
Beryllium	Atomic Emission - ICP	6010	W	(2)
Cadmium	Atomic Emission - ICP	6010	W	(2)
Calcium	Atomic Emission - ICP	200.7	W	(3)
Chromium, Total	Atomic Emission - ICP	6010	W	(2)

TABLE 1. ANALYTICAL METHODS

Parameter	Method	Method Number	Matrix	Reference
Cobalt	Atomic Emission - ICP	6010	W	(2)
Copper	Atomic Emission - ICP	6010	W	(2)
Iron	Atomic Emission - ICP	200.7	W	(3)
Lead	Atomic Absorption - Furnace	7421	W	(2)
Manganese	Atomic Emission - ICP	200.7	W	(3)
Magnesium	Atomic Emission - ICP	200.7	W	(3)
Nickel	Atomic Emission - ICP	6010	W	(2)
Potassium	Atomic Emission - ICP	200.7	W	(3)
Selenium	Atomic Absorption - Furnace	7740	W	(2)
Silver	Atomic Emission - ICP	6010	W	(2)
Thallium	Atomic Absorption - Furnace	7841	W	(2)
Vanadium	Atomic Emission - ICP	6010	W	(2)
Zinc	Atomic Emission - ICP	6010	W	(2)
INORGANIC NONMETALS				
Bicarbonate/Carbonate	Calculation	406C	W	(5)

TABLE 1. ANALYTICAL METHODS

Parameter	Method	Method Number	Matrix	Reference
Nitrogen, Ammonia	Colorimetric - Automated Phenate	350.1	W	(1)
Nitrogen, Nitrate+Nitrite	Colorimetric - Cadmium Reduction	353.2	W	(1)
Cyanide, Total	Semiautomated Spectrophotometric	335.3	W	(6)
Chloride	Colorimetric - Ferricyanide	325.2	W	(1)
Sulfate	Turbidimetric	375.4	W	(1)
PHYSICAL DETERMINATIONS				
Residue, Total Filterable	Gravimetric - 180C	160.1	W,DW	(1)

Matrix codes:

W - Estuarine water, ground water, leachates, ocean water, surface water, and wastewater

References:

1. United States Environmental Protection Agency. 1979. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-020. U.S. EPA, Cincinnati, Ohio.

2. United States Environmental Protection Agency. August 1993. Test Methods for Evaluating Solid Waste. Physical/Chemical Methods. EPA SW-846, 3rd edition, including Final Update I. U.S. EPA, Washington, D.C.

3. United States Environmental Protection Agency. 1987. Inductively coupled plasma-atomic emission spectrometric method for trace element analysis of water and wastes. 40 CFR Part 136, Appendix C.

4. United States Environmental Protection Agency. 1979. Guidelines establishing test procedures for the analysis of pollutants; proposed regulations. Federal

Parameter	Method	Method Number	Matrix	Reference

Register 44(233):69464-69575.

5. American Public Health Association, American Water Works Association, Water Pollution Control Federation. 1985. Standard Methods for the Examination of Water and Wastewater, 16th edition. APHA, Washington, D.C.

6. United States Environmental Protection Agency. September 1991. U.S. EPA Contract Laboratory Program. Statement of Work for Inorganics Analysis. ILM02.1. U.S. EPA, Washington, D.C.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VB606275

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8847.D

Level: (low/med) Date Received:

% Moisture: not dec. Date Analyzed: 6/27/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VB606275

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8847.D

Level: (low/med) Date Received:

% Moisture: not dec. Date Analyzed: 6/27/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VB607015

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8897.D

Level: (low/med) Date Received:

% Moisture: not dec. Date Analyzed: 7/1/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VB607015

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8897.D

Level: (low/med) Date Received:

% Moisture: not dec. Date Analyzed: 7/1/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

B. Sample Data

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609457

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8851.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 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	5	U
75-01-4	Vinyl Chloride	6	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

2 ug/L

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609457

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8851.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

TABLE 2. ORGANIC ANALYSIS DATA QUALIFIERS

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

Reported limit = (330 U) x df / D

where: df = dilution factor = 10
D = (100 - % moisture) / 100 (At 24% moisture, D = (100-24) / 100 = 0.76)

Reported limit = (330 U) x 10 / 0.76 = 4300 U (rounded to two significant figures)

For soil samples subjected to gel permeation chromatography (GPC) cleanup procedures, the contract required quantitation limit (CRQL) is also multiplied by 2 to account for the fact that only half of the extract is recovered. Note: If GPC procedures are employed, the factor of 2 is not included in the dilution factor reported; a "Y" is entered for GPC (Y/N).

TR or J Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, 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 but greater than zero, 3) when the retention time data indicate the presence of a compound that meets the pesticide/Aroclor identification criteria and the result is less than the CRQL but greater than zero. Note: the "J" code is not used and the compound is not reported as being identified for pesticide/Aroclor results less than the CRQL, if the technical judgement of the pesticide residue analysis expert determines that the peaks used for compound identification resulted from instrument noise or other interferences (column bleed, solvent contamination, etc.). For example, if the sample quantitation limit is 10 ug/L but a concentration of 3 ug/L is calculated, report it as 3 J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag

C This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides with concentration equal to or greater than 10 ng/uL in the final extract must be confirmed by GC/MS.

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 is used for a TIC as well as for a positively identified TCL compound.

E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag does not apply to pesticides/PCBs analyzed by GC/EC methods. If one or more compounds have a response greater that full scale, the sample or extract must be diluted and reanalyzed according to the specifications listed in the SOW. All such compounds with a response greater than full scale should have a concentration flagged with an "E" on 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 are reported on separate Forms I. The Form I for the diluted sample will 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 is considered separately; e.g., a diluted analysis is not required for total xylenes unless the concentration of either peak separately exceeds 200 ug/L.

D This flag identifies all compounds identified in the analysis at a secondary dilution factor. If a sample or extract is reanalyzed 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.

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 are fully described and such description attached to the Sample Data Summary Package and the Case Narrative. The flags begin by using "X". If more that one flag is required, "Y" and "Z" are used, as needed. For instance, the "X" flag might combine the "A", "B", and "D" flags for some sample.

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 GC analyses 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".

2. CHAIN OF CUSTODY

Company Name: Chambers USA

Project Manager or Contact: Mike Dace

Phone:

Project No. 70110.01

Project Name: Texas Town Landfill June Groundwater

Dept.: Task:

Sample Storage Location: L5

ATO Number:

Page 1 of 1

Report #: 961008

Parameters/Method Numbers for Analysis

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	Apx I VOA 8260	Apx I Metals 6010/7060	Sulfate 375.1	TDS 160.1 / TOD 410.4	Ammonia 350.1	B. carbonate 310.1	Nitrate 353.2	Cyanide 335.2	Chloride 325.2	Metals 200 series	TOC 415.2	EA Labs Accession Number	Remarks
6/25/96	1345	X		MW3		X	X	X	X	X	X	X	X	X	X	X	9609457	LPM: Randall
6/25/96	1315	X		MW5		X	X	X	X	X	X	X	X	X	X	X	9609458	
6/25/96	1245	X		MW10		X	X	X	X	X	X	X	X	X	X	X	9609459	200 series Metals:
6/25/96	1510	X		Field Blank		X									X		9609460	Ca, Fe, Mg, Mn, K
6/25/96	1530	X		MW1		X	X	X	X	X	X	X	X	X	X	X	9609461	Na, Hg
6/25/96	1534	X		MW1D		X	X	X	X	X	X	X	X	X	X	X	9609462	
6/25/96		X		TRIP Blank		X											9609463	
6/25/96	1500	X		MW4		X	X	X	X	X	X	X	X	X	X	X	9609464	
6/25/96	1435	X		MW7		X	X	X	X	X	X	X	X	X	X	X	9609465	
6/25/96	1415	X		MW6		X	X	X	X	X	X	X	X	X	X	X	9609466	
6/25/96	1135	X		MW8		X	X	X	X	X	X	X	X	X	X	X	9609467	
6/25/96	1115	X		MW2		X	X	X	X	X	X	X	X	X	X	X	9609468	
6/25/96	1045	X		MW11		X	X	X	X	X	X	X	X	X	X	X	9609469	

L9624

Chain of Custody Record

EA Laboratories
19 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-4920
Fax: (410) 771-4407

Report Deliverables: 1 (2) 3 4 D (E)

EDD: Yes (No)

DUE TO CLIENT: 7/17/96

Samples by: (Signature) Paul Marett — Date/Time 6/25/96 1530

Relinquished by: (Signature) Paul Marett — Date/Time 6/25/96 1630

Received by: (Signature) — Date/Time

Relinquished by: (Signature) four COOLERS — Date/Time

Received by Laboratory: (Signature) Kristi Tokarz — Date/Time 6/26/96 7:45

Airbill Number: 950639856 one on each

Sample Shipped by: (Circle) (Fed Ex) Puro. UPS

Hand Carried

Other: samples in 4 coolers

Cooler Temp. 1.8-2.7 C pH: (Yes) No Comments: B, C2 G12 Custody Seals Intact (Yes) No COOLER

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

1.8/1.9/2.5/2.7

WHITE—EA Laboratories YELLOW—EA Laboratories PINK—Project Manager

Shaded Areas for Lab Use Only

3. VOLATILES DATA

A. QC Summary

LCS Recovery Report

Lab Name : EA Laboratories File ID : VA1A8848.D Instrument: VA1

Sample : VL606275,LCS,WATER,5ml Date Analyzed: 27 Jun 96 10:10 pm

Matrix : WATER Date Sampled:

Client : Project : Method : 8260W.M

Spike Compound	Spike Added	Spike Res	Spike %Rec	QC Limits % Rec
1,1-Dichloroethene	50	49.2	98	73-125
Benzene	50	51.7	103	77-124
Trichloroethene	50	47.5	95	65-131
Toluene	50	52.7	105	71-142
Chlorobenzene	50	51.2	102	70-145

* - Indicates values outside of QC limits

This LCS has been checked and is (within) outside current limits

Analyst 7/9/96 Date N/A Non-conformance form no.

LCS Recovery Report

Lab Name : EA Laboratories File ID : VA1A8898.D Instrument: VA1

Sample : VL607015,LCS,WATER,5ml Date Analyzed: 1 Jul 96 10:55 pm

Matrix : WATER Date Sampled:

Client : Project : Method : 8260W.M

Spike Compound	Spike Added	Spike Res	Spike %Rec	QC Limits % Rec	
1,1-Dichloroethene	50	43.4	87	73-125	
Benzene	50	46.6	93	77-124	
Trichloroethene	50	42.4	85	65-131	
Toluene	50	47.8	96	71-142	
Chlorobenzene	50	44.4	89	70-145	

* - Indicates values outside of QC limits

This LCS has been checked and is (within) outside current limits

James J Fuschino Jr 7/9/96 N/A

Analyst Date Non-conformance form no.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609458

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8852.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	4	J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609458

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8852.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5	
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609459

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8855.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW10

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609459

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8855.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609460

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8850.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/27/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	'5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: .8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609460

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8850.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/27/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609461

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8856.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	15	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	7	
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	23	
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	9	
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

5ug/L

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609461

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8856.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 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
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	13	
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

75 ug/l

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1D

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609462

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8857.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 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	5	U	
75-01-4	Vinyl Chloride	16		2 ug/l
74-83-9	Bromomethane	5	U	
75-00-3	Chloroethane	7		
75-69-4	Trichlorofluoromethane	5	U	
67-64-1	Acetone	10	U	
75-35-4	1,1-Dichloroethene	5	U	
74-88-4	Iodomethane	10	U	
75-09-2	Methylene Chloride	5	U	
75-15-0	Carbon Disulfide	5	U	
107-13-1	Acrylonitrile	50	U	
156-60-5	trans-1,2-Dichloroethene	5	U	
75-34-3	1,1-Dichloroethane	25		
108-05-4	Vinyl acetate	10	U	
78-93-3	2-Butanone	10	U	
156-59-2	cis-1,2-Dichloroethene	10		
67-66-3	Chloroform	5	U	
74-97-5	Bromochloromethane	5	U	
71-55-6	1,1,1-Trichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
107-06-2	1,2-Dichloroethane	5	U	
71-43-2	Benzene	6		5 ug/l
79-01-6	Trichloroethene	5	U	
78-87-5	1,2-Dichloropropane	5	U	
75-27-4	Bromodichloromethane	5	U	
74-95-3	Dibromomethane	5	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
10061-01-5	cis-1,3-Dichloropropene	5	U	
108-88-3	Toluene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
106-93-4	1,2-Dibromoethane (EDB)	5	U	
591-78-6	2-Hexanone	10	U	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1D

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609462

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8857.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 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
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	14	
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

75ug/L

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609463

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8849.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/27/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609463

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8849.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/27/96

GC Column: RTX 502.2 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
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609464

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8858.D

Level: (low/med) Date Received. 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	6	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	13	
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	6	
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	8	
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	2	J
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609464

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8858.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	2	J
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

75ug/l

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609465

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8859.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	3	J
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	6	
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609465

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8859.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 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
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW6

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609466

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8860.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	4	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	4	J
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	2	J
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

2 ug/l

5 ug/l

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW6

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609466

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8860.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	4	J
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW8

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609467

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8861.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW8

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609467

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8861.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 6/28/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609468

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8900.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 7/2/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609468

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8900.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 7/2/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW11

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609469

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8901.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 7/2/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	10	U
75-09-2	Methylene Chloride	5	U
75-15-0	Carbon Disulfide	5	U
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
106-93-4	1,2-Dibromoethane (EDB)	5	U
591-78-6	2-Hexanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW11

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: Method: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9609469

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VA1A8901.D

Level: (low/med) Date Received: 6/26/96

% Moisture: not dec. Date Analyzed: 7/2/96

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylenes (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	'5	U
96-18-4	1,2,3-Trichloropropane	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	10	U

4. METALS DATA

A. Analytical Results

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961007
EA SAMPLE ID: 9609457 **CLIENT ID:** MW3

ELEMENT	CONC, UG/L
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Lead	<3.0
Nickel	<40.0
Selenium	<5.0
Silver	<10.0
Thallium	<10.0
Vanadium	<50.0
Zinc	<20.0

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961007
EA SAMPLE ID: 9609458 **CLIENT ID:** MW5

ELEMENT	CONC, UG/L
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Lead	<3.0
Nickel	<40.0
Selenium	<5.0
Silver	<10.0
Thallium	<10.0
Vanadium	<50.0
Zinc	74.9

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961007
EA SAMPLE ID: 9609459 **CLIENT ID:** MW10

ELEMENT	CONC, UG/L
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Lead	<3.0
Nickel	<40.0
Selenium	<5.0
Silver	<10.0
Thallium	<10.0
Vanadium	<50.0
Zinc	<20.0

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961007
EA SAMPLE ID: 9609461 **CLIENT ID:** MW1

ELEMENT	CONC, UG/L
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Chromium	<10.0
Cobalt	64.7
Copper	<10.0
Lead	<3.0
Nickel	137
Selenium	<5.0
Silver	<10.0
Thallium	<10.0
Vanadium	<50.0
Zinc	356

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961007
EA SAMPLE ID: 9609462 **CLIENT ID:** MW1D

ELEMENT	CONC, UG/L
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Chromium	<10.0
Cobalt	60.4
Copper	<10.0
Lead	<3.0
Nickel	143
Selenium	<5.0
Silver	<10.0
Thallium	<10.0
Vanadium	<50.0
Zinc	361

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961007
EA SAMPLE ID: 9609464 **CLIENT ID:** MW4

ELEMENT	CONC, UG/L
Antimony	<6.0
Arsenic	<10.0
Barium	208
Beryllium	<5.0
Cadmium	<5.0
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Lead	<3.0
Nickel	96.8
Selenium	<5.0
Silver	<10.0
Thallium	<10.0
Vanadium	<50.0
Zinc	<20.0

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961007
EA SAMPLE ID: 9609465 **CLIENT ID:** MW7

ELEMENT	CONC, UG/L
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Lead	<3.0
Nickel	<40.0
Selenium	<5.0
Silver	<10.0
Thallium	<10.0
Vanadium	<50.0
Zinc	66.5

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961007
EA SAMPLE ID: 9609466 **CLIENT ID:** MW6

ELEMENT	CONC, UG/L
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	7.2
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Lead	<3.0
Nickel	<40.0
Selenium	<5.0
Silver	<10.0
Thallium	<10.0
Vanadium	<50.0
Zinc	55.6

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961007
EA SAMPLE ID: 9609467 **CLIENT ID:** MW8

ELEMENT	CONC, UG/L
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Lead	<3.0
Nickel	<40.0
Selenium	<5.0
Silver	<10.0
Thallium	<10.0
Vanadium	<50.0
Zinc	<20.0

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961007
EA SAMPLE ID: 9609468 **CLIENT ID:** MW2

ELEMENT	CONC, UG/L
Antimony	<6 0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Lead	<3.0
Nickel	<40.0
Selenium	<5.0
Silver	<10.0
Thallium	<10.0
Vanadium	<50.0
Zinc	<20.0

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961007
EA SAMPLE ID: 9609469 **CLIENT ID:** MW11

ELEMENT	CONC, UG/L
Antimony	<6.0
Arsenic	<10.0
Barium	<200
Beryllium	<5.0
Cadmium	<5.0
Chromium	<10.0
Cobalt	<50.0
Copper	<10.0
Lead	<3.0
Nickel	<40.0
Selenium	<5.0
Silver	<10.0
Thallium	<10.0
Vanadium	<50.0
Zinc	<20.0

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609457 **CLIENT ID:** MW3

ELEMENT	CONC, UG/L
Calcium	57700
Iron	5220
Magnesium	2870
Manganese	4230
Mercury	<0.20
Potassium	2200
Sodium	2870

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609458 **CLIENT ID:** MW5

ELEMENT	CONC, UG/L
Calcium	120000
Iron	<100
Magnesium	2010
Manganese	<15.0
Mercury	<0.20
Potassium	1440
Sodium	13000

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609459 **CLIENT ID:** MW10

ELEMENT	CONC, UG/L
Calcium	43700
Iron	<100
Magnesium	7450
Manganese	<15.0
Mercury	<0.20
Potassium	<1000
Sodium	4090

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609460 **CLIENT ID:** FIELD BLANK

ELEMENT	CONC, UG/L
Calcium	<1000
Iron	<100
Magnesium	<1000
Manganese	<15.0
Mercury	<0.20
Potassium	<1000
Sodium	<1000

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609461 **CLIENT ID:** MW1

ELEMENT	CONC, UG/L
Calcium	188000
Iron	4030
Magnesium	4540
Manganese	7380
Mercury	<0.20
Potassium	5530
Sodium	25000

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609462 **CLIENT ID:** MW1D

ELEMENT	CONC, UG/L
Calcium	185000
Iron	4050
Magnesium	4460
Manganese	7240
Mercury	<0.20
Potassium	5420
Sodium	24400

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609464 **CLIENT ID:** MW4

ELEMENT	CONC, UG/L
Calcium	91600
Iron	48200
Magnesium	4530
Manganese	12800
Mercury	<0.20
Potassium	1960
Sodium	6180

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609465 **CLIENT ID:** MW7

ELEMENT	CONC, UG/L
Calcium	112000
Iron	<100
Magnesium	2190
Manganese	710
Mercury	<0.20
Potassium	1640
Sodium	5490

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609466 **CLIENT ID:** MW6

ELEMENT	CONC, UG/L
Calcium	70500
Iron	<100
Magnesium	2170
Manganese	111
Mercury	<0.20
Potassium	1320
Sodium	7060

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609467 **CLIENT ID:** MW8

ELEMENT	CONC, UG/L
Calcium	70300
Iron	<100
Magnesium	1230
Manganese	18.8
Mercury	<0.20
Potassium	2980
Sodium	5550

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609468 **CLIENT ID:** MW2

ELEMENT	CONC, UG/L
Calcium	38900
Iron	102
Magnesium	810
Manganese	<15.0
Mercury	<0.20
Potassium	2470
Sodium	5180

EA LABORATORIES ANALYTICAL REPORT SUMMARY
METALS RESULTS FOR CHAMBERS REPORT #961008
EA SAMPLE ID: 9609469 **CLIENT ID:** MW11

ELEMENT	CONC, UG/L
Calcium	61800
Iron	<100
Magnesium	<1000
Manganese	<15.0
Mercury	<0.20
Potassium	<1000
Sodium	3420

B. Quality Control Data

EA LABORATORIES
LCS Recovery Report

Client: Chambers USA
Project: Tontitown Landfill
Date Analyzed: 8-14 July 1996

Matrix: water
Method: SW846
Units: µg/L

Liquid LCS

Parameter	True Conc.	Found conc	% rec
Antimony	500	503	100.6
Arsenic	25.0	24.9	99.6
Barium	2000	1940	97.0
Beryllium	50.0	50.0	100.0
Cadmium	50.0	47.3	94.6
Chromium	200	202	101.0
Cobalt	500	507	101.4
Copper	250	252	100.8
Lead	25.0	24.9	99.6
Nickel	500	489	97.8
Selenium	50.0	48.7	97.4
Silver	500	507	101.4
Thallium	25.0	26.3	105.2
Vanadium	500	517	103.4
Zinc	500	500	100.0

EA LABORATORIES
LCS Recovery Report

Client: Chambers USA
Project:Tontitown Landfill
Date Analyzed: 11-16 July 1996

Matrix: water
Method: 200 series
Units: µg/L

Liquid LCS

Parameter	True Conc.	Found conc	% rec
Calcium	10000	9210	92.1
Iron	2000	1880	94.0
Magnesium	10000	9310	93.1
Manganese	1000	945	94.5
Mercury	4.00	4.22	105.5
Potassium	10000	9460	94.6
Sodium	10000	9490	94.9

EA LABORATORIES
Method Blank Report

Client: Chambers USA
Project: Tontitown Landfill
Date Analyzed: 8-14 July 1996

Method: SW846
Matrix: water
Units: ug/L

Parameter	Detection Limit	Blank result
Antimony	6.0	<6.0
Arsenic	10.0	<10.0
Barium	200	<200
Beryllium	5.0	<5.0
Cadmium	5.0	<5.0
Chromium	10.0	<10.0
Cobalt	50.0	<50.0
Copper	10.0	<10.0
Lead	3.0	<3.0
Nickel	40.0	<40.0
Selenium	5.0	<5.0
Silver	10.0	<10.0
Thallium	10.0	<10.0
Vanadium	50.0	<50.0
Zinc	20.0	<20.0

EA LABORATORIES
Method Blank Report

Client: Chambers USA
Project: Tontitown Landfill
Date Analyzed: 11-16 July 1996

Method: 200 series
Matrix: water
Units: ug/L

Parameter	Detection Limit	Blank result
Calcium	1000	< 1000
Iron	100	< 100
Magnesium	1000	< 1000
Manganese	15.0	< 15.0
Mercury	0.20	< 0.20
Potassium	1000	< 1000
Sodium	1000	< 1000

5. GENERAL CHEMISTRY DATA

A. Analytical Results

FORM I
SAMPLE ANALYSIS RESULTS

ab Name: EA Laboratories
AS Case No.: 7011001
PA Sample No.: MW3
ample matrix: WATER
otal Solids: %

Contract: CHAMBERS
SDG No.: 9609457
Lab Sample ID No.: 9609457
Date Received: 06/26/96

ab D	Parameter	Sample Conc.	Concentration Units	Analyzed Date
609457	AMMONIA	0.27	mg/L	07/09/96
	BICARBONATE	193	mg/L	07/15/96
	CHLORIDE	4.1	mg/L	07/08/96
	COD	27.4	mg/L	06/27/96
	CYANIDE	<0.010	mg/L	06/28/96
	NITRATE	1.1	mg/L	06/27/96
	SULFATE	<2.0	mg/L	07/02/96
	TDS	226	mg/L	06/27/96
	TOC	5.1	mg/L	07/01/96

FORM I
SAMPLE ANALYSIS RESULTS

Lab Name: EA Laboratories
AS Case No.: 7011001
PA Sample No.: MW5
ample matrix: WATER
otal Solids: %

Contract: CHAMBERS
SDG No.: 9609457
Lab Sample ID No.: 9609458
Date Received: 06/26/96

Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
9609458	AMMONIA	0.12	mg/L	07/09/96
	BICARBONATE	354	mg/L	07/15/96
	CHLORIDE	38.8	mg/L	07/08/96
	COD	<10.0	mg/L	06/27/96
	CYANIDE	<0.010	mg/L	06/28/96
	NITRATE	1.8	mg/L	06/27/96
	SULFATE	3.1	mg/L	07/02/96
	TDS	468	mg/L	06/27/96
	TOC	5.5	mg/L	07/01/96

FORM I
SAMPLE ANALYSIS RESULTS

ab Name: EA Laboratories
AS Case No.: 7011001
PA Sample No.: MW10
ample matrix: WATER
otal Solids: %

Contract: CHAMBERS
SDG No.: 9609457
Lab Sample ID No.: 9609459
Date Received: 06/26/96

ab D	Parameter	Sample Conc.	Concentration Units	Analyzed Date
609459	AMMONIA	0.15	mg/L	07/09/96
	BICARBONATE	158	mg/L	07/15/96
	CHLORIDE	2.6	mg/L	07/08/96
	COD	<10.0	mg/L	06/27/96
	CYANIDE	<0.010	mg/L	06/28/96
	NITRATE	<0.050	mg/L	06/27/96
	SULFATE	8.2	mg/L	07/02/96
	TDS	186	mg/L	06/27/96
	TOC	2.7	mg/L	07/01/96

FORM I
SAMPLE ANALYSIS RESULTS

.b Name: EA Laboratories
.S Case No.: 7011001
?A Sample No.: MW1
imple matrix: WATER
otal Solids: %

Contract: CHAMBERS
SDG No.: 9609457
Lab Sample ID No.: 9609461
Date Received: 06/26/96

ab D	Parameter	Sample Conc.	Concentration Units	Analyzed Date
609461	AMMONIA	0.66	mg/L	07/09/96
	BICARBONATE	539	mg/L	07/15/96
	CHLORIDE	38.9	mg/L	07/08/96
	COD	16.3	mg/L	06/27/96
	CYANIDE	<0.010	mg/L	06/28/96
	NITRATE	0.39	mg/L	06/27/96
	SULFATE	2.4	mg/L	07/02/96
	TDS	643	mg/L	06/27/96
	TOC	7.0	mg/L	07/01/96

FORM I
SAMPLE ANALYSIS RESULTS

ab Name: EA Laboratories
AS Case No.: 7011001
PA Sample No.: MW1D
ample matrix: WATER
otal Solids: %

Contract: CHAMBERS
SDG No.: 9609457
Lab Sample ID No.: 9609462
Date Received: 06/26/96

ab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
9609462	AMMONIA	0.26	mg/L	07/09/96
	BICARBONATE	549	mg/L	07/15/96
	CHLORIDE	38.9	mg/L	07/08/96
	COD	<10.0	mg/L	06/27/96
	CYANIDE	<0.010	mg/L	07/02/96
	NITRATE	0.45	mg/L	06/27/96
	SULFATE	3.3	mg/L	07/02/96
	TDS	629	mg/L	06/27/96
	TOC	7.4	mg/L	07/01/96

FORM I
SAMPLE ANALYSIS RESULTS

ab Name: EA Laboratories
AS Case No.: 7011001
PA Sample No.: MW4
ample matrix: WATER
otal Solids: %

Contract: CHAMBERS
SDG No.: 9609457
Lab Sample ID No.: 9609464
Date Received: 06/26/96

ab D	Parameter	Sample Conc.	Concentration Units	Analyzed Date
609464	AMMONIA	0.84	mg/L	07/09/96
	BICARBONATE	381	mg/L	07/15/96
	CHLORIDE	11.6	mg/L	07/08/96
	COD	35.3	mg/L	06/27/96
	CYANIDE	<0.010	mg/L	07/02/96
	NITRATE	<0.050	mg/L	06/27/96
	SULFATE	<2.0	mg/L	07/02/96
	TDS	517	mg/L	06/27/96
	TOC	16.8	mg/L	07/01/96

FORM I
SAMPLE ANALYSIS RESULTS

ab Name: EA Laboratories
AS Case No.: 7011001
PA Sample No.: MW7
ample matrix: WATER
otal Solids: %

Contract: CHAMBERS
SDG No.: 9609457
Lab Sample ID No.: 9609465
Date Received: 06/26/96

ab D	Parameter	Sample Conc.	Concentration Units	Analyzed Date
609465	AMMONIA	0.16	mg/L	07/09/96
	BICARBONATE	362	mg/L	07/15/96
	CHLORIDE	9.6	mg/L	07/08/96
	COD	18.4	mg/L	06/27/96
	CYANIDE	<0.010	mg/L	07/02/96
	NITRATE	0.93	mg/L	06/27/96
	SULFATE	2.1	mg/L	07/02/96
	TDS	405	mg/L	06/27/96
	TOC	7.5	mg/L	07/01/96

FORM I
SAMPLE ANALYSIS RESULTS

.b Name: EA Laboratories
.S Case No.: 7011001
?A Sample No.: MW6
.mple matrix: WATER
.tal Solids: %

Contract: CHAMBERS
SDG No.: 9609457
Lab Sample ID No.: 9609466
Date Received: 06/26/96

ab D	Parameter	Sample Conc.	Concentration Units	Analyzed Date
509466	AMMONIA	0.19	mg/L	07/09/96
	BICARBONATE	214	mg/L	07/15/96
	CHLORIDE	18.9	mg/L	07/08/96
	COD	15.7	mg/L	06/27/96
	CYANIDE	<0.010	mg/L	07/02/96
	NITRATE	2.4	mg/L	06/27/96
	SULFATE	2.2	mg/L	07/08/96
	TDS	289	mg/L	06/27/96
	TOC	3.3	mg/L	07/01/96

FORM I
SAMPLE ANALYSIS RESULTS

ab Name: EA Laboratories
AS Case No.: 7011001
PA Sample No.: MW8
ample matrix: WATER
otal Solids: %

Contract: CHAMBERS
SDG No.: 9609457
Lab Sample ID No.: 9609467
Date Received: 06/26/96

ab D	Parameter	Sample Conc.	Concentration Units	Analyzed Date
609467	AMMONIA	0.21	mg/L	07/09/96
	BICARBONATE	233	mg/L	07/15/96
	CHLORIDE	4.2	mg/L	07/08/96
	COD	<10.0	mg/L	06/27/96
	CYANIDE	<0.010	mg/L	07/02/96
	NITRATE	0.53	mg/L	06/27/96
	SULFATE	<2.0	mg/L	07/08/96
	TDS	263	mg/L	06/27/96
	TOC	3.2	mg/L	07/01/96

FORM I
SAMPLE ANALYSIS RESULTS

ab Name: EA Laboratories
AS Case No.: 7011001
PA Sample No.: MW2
ample matrix: WATER
otal Solids: %

Contract: CHAMBERS
SDG No.: 9609457
Lab Sample ID No.: 9609468
Date Received: 06/26/96

ab D	Parameter	Sample Conc.	Concentration Units	Analyzed Date
609468	AMMONIA	0.13	mg/L	07/09/96
	BICARBONATE	123	mg/L	07/15/96
	CHLORIDE	11.0	mg/L	07/08/96
	COD	<10.0	mg/L	06/27/96
	CYANIDE	<0.010	mg/L	07/02/96
	NITRATE	0.79	mg/L	06/27/96
	SULFATE	<2.0	mg/L	07/08/96
	TDS	160	mg/L	06/27/96
	TOC	1.8	mg/L	07/01/96

FORM I
SAMPLE ANALYSIS RESULTS

ab Name: EA Laboratories
AS Case No.: 7011001
PA Sample No.: MW11
ample matrix: WATER
otal Solids: %

Contract: CHAMBERS
SDG No.: 9609457
Lab Sample ID No.: 9609469
Date Received: 06/26/96

ab D	Parameter	Sample Conc.	Concentration Units	Analyzed Date
609469	AMMONIA	0.21	mg/L	07/09/96
	BICARBONATE	170	mg/L	07/15/96
	CHLORIDE	9.8	mg/L	07/08/96
	COD	<10.0	mg/L	06/27/96
	CYANIDE	<0.010	mg/L	07/02/96
	NITRATE	3.7	mg/L	06/27/96
	SULFATE	<2.0	mg/L	07/08/96
	TDS	230	mg/L	06/27/96
	TOC	2.7	mg/L	07/01/96

FORM II
LABORATORY CONTROL SAMPLE (LCS) RECOVERY

ab Name: EA Laboratories
AS Case No.: 7011001

Contract: CHAMBERS
SDG No.: 9609457

Parameter	Target Conc.	Measured Conc.	Units	Recovery %	Analysis Date
AMMONIA	0.500	0.451	mg/L	90.2	07/09/96
CHLORIDE	10.0	9.74	mg/L	97.4	07/08/96
COD	250	276	mg/L	110.4	06/27/96
CYANIDE	0.0963	0.0828	mg/L	86.0	06/28/96
CYANIDE	0.0963	0.0881	mg/L	91.5	07/02/96
NITRATE+NITRITE	0.500	0.503	mg/L	100.6	06/27/96
NITRITE	0.500	0.513	mg/L	102.6	06/27/96
SULFATE	25.0	25.1	mg/L	100.4	07/02/96
SULFATE	25.0	23.6	mg/L	94.4	07/08/96
TDS	913	903	mg/L	98.9	06/27/96
TOC	20.0	19.8	mg/L	99.0	07/01/96

FORM III
METHOD BLANK AND DETECTION LIMIT

Lab Name: EA Laboratories
SAS Case No.: 7011001

Contract: CHAMBERS
SDG No.: 9609457

Parameter	Method Bk. Conc.	Detection Limit	Units	Analysis Date
AMMONIA	<0.10	0.10	mg/L	07/09/96
CHLORIDE	<1.0	1.0	mg/L	07/08/96
COD	<10.0	10.0	mg/L	06/27/96
CYANIDE	<0.010	0.010	mg/L	06/28/96
CYANIDE	<0.010	0.010	mg/L	07/02/96
NITRATE+NITRITE	<0.050	0.050	mg/L	06/27/96
NITRITE	<0.050	0.050	mg/L	06/27/96
SULFATE	<2.0	2.0	mg/L	07/02/96
SULFATE	<2.0	2.0	mg/L	07/08/96
TDS	<10.0	10.0	mg/L	06/27/96
TOC	<1.0	1.0	mg/L	07/01/96

Solid Matrix detection limits will vary slightly for each sample depending on sample weight processed and total solids.