UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: NOV 21 1989

SUBJECT: **Review of Region 5 data for** WCI Freezer

FROM: **Curtis Ross, Director**
Region 5 Central Regional Laboratory

To: **Data User:**

Attached are the results for:

CRL Data Set Numbers: RCRA 6508 Case 12619
Sample Numbers: 89KG03 S01 - S05
Parameter(s): VOA (5)
Laboratory: GULF SOUTH ENVIRONMENTAL LAB

Results Status:

(✓) **DATA ACCEPTABLE FOR USE***
( ) **DATA QUALIFIED AS TO USE**
( ) **DATA UNACCEPTABLE FOR USE**

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to David Payne, the Quality Control Coordinator, at 3-3805

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

RECEIVED BY
NOV 21 1989
U.S. EPA CENTRAL
REGIONAL LAB

RECEIVED BY/DATE:
Comments:

Filed by/date:

CASE 12619

DATA SET	SITE	DU/ACT.
RCRA 6508	WCI FREEZER	

SAMPLES	PARAMETER(S)
89KG03501-505	VOA

SAMPLED	PAPERWORK RECEIVED	DUE	LAB
8/23/89	8/28/89	—	GULF SOUTH

SHIPPED	DATA RECEIVED	CONTRACT
8/23/89	9-5-89	

Comments By Reviewer: this review covers five samples analyzed for VOA's only. all necessary information has been supplied to verify the custody, qualitation and quantitation of the data. No RCRA procedure was used. Spike and Spike duplicate were properly performed and results are acceptable. Method blanks are slightly contaminated with lab. common contaminant Methylene chloride and Acetone. Initial calibration 2-Butanone RRF is less than .3 and on the continuing calibration the %D is greater than 25%, results for this compound should be considered estimated and bias low. Methylene chloride has been identify in sample EC.M81 below the detection limit; the same peak is present in the other samples but was not (identified) detected. Methylene chloride on sample EC.M81 should be considered as a lab contaminant and not a positive result.

Midea Felicano
11/7/89
Chaur

( ) REVIEWED ( ) UNREVIEWED TEAM LEADER/DATE

( ) REVIEWED ( ) UNREVIEWED SECTION CHIEF/DATE

( ) REVIEWED ( ) UNREVIEWED QC COORDINATOR/DATE

'IEWED BY CONTRACT COORDINATOR/DATE

RECEIVED TRANSMITTED DATA MANAGEMENT COORDINATOR

CC: QUALITY CONTROL COORDINATOR

GULF SOUTH ENVIRONMENTAL LABORATORY

formerly GSRI

RECEIVED
SEP 05 1989
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Sample Data Package

EPA Contract No. 68-D9-0038

Project No. 6200-3026

Case 12619

Episode(s): CPC

Presented to:

U.S. Environmental Protection Agency
Sample Management Office
Contract Laboratory Program
209 Madison Street, Ste. 200
Alexandria, Virginia 22314

Present by:

Analytical Chemistry Department
Gulf South Environmental Laboratory, Inc.
P.O. Box 26518
New Orleans, Louisiana 70186

September 1, 1989

GULF SOUTH ENVIRONMENTAL LABORATORY

formerly GSRI

Narrative

Case 12619

Post Office Box 26518 • New Orleans, Louisiana 70186 • Phone (504)283-4223 • Fax (504)288-3625

Gulf South Environmental Laboratory
Case 12619

EPA Contract No. 68-D9-0038
SDG No. EMC81

Narrative

Case 12619 consisted of 5 (five) water samples which were received by Gulf South Environmental Laboratory on August 24, 1989 and logged in as Episode CPC. The samples were identified as follows:

EMC-81	EMC-82	EMC-83	EMC-84	EMC-85

The samples were analyzed for volatile organics only.

No problems were encountered wth the analyses.

"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 and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Richard R. Whitney , Ph.D.
GC/MS Laboratory Manager

9/1/89
Date

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECM81

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12619 SAS No.: _____ SDG No.: ECM81

Matrix: (soil/water) WATER Lab Sample ID: CPC01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VOCPC01

Level: (low/med) LOW Date Received: 08/24/89

% Moisture: not dec. _____ Date Analyzed: 08/25/89

Column: (pack/cap) PACK Dilution Factor: 1.0

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	6	
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

000010

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECM81

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12619 SAS No.: _____ SDG No.: ECM81

Matrix: (soil/water) WATER Lab Sample ID: CPC01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VOCPC01

Level: (low/med) LOW Date Received: 08/24/89

% Moisture: not dec. _____ Date Analyzed: 08/25/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECM82

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12619 SAS No.: _____ SDG No.: ECM81

Matrix: (soil/water) WATER Lab Sample ID: CPC03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VOCPC03

Level: (low/med) LOW Date Received: 08/24/89

% Moisture: not dec. _____ Date Analyzed: 08/25/89

Column: (pack/cap) PACK Dilution Factor: 1.0

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	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

000019

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECM82

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12619 SAS No.: _____ SDG No.: ECM81

Matrix: (soil/water) WATER Lab Sample ID: CPC03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VOCPC03

Level: (low/med) LOW Date Received: 08/24/89

% Moisture: not dec. _____ Date Analyzed: 08/25/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000020

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECM83

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12619 SAS No.: _____ SDG No.: ECM81

Matrix: (soil/water) WATER Lab Sample ID: CPC09

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VOCPC09

Level: (low/med) LOW Date Received: 08/24/89

% Moisture: not dec. _____ Date Analyzed: 08/25/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECM83

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12619 SAS No.: _____ SDG No.: ECM81

Matrix: (soil/water) WATER Lab Sample ID: CPC09

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VOCPC09

Level: (low/med) LOW Date Received: 08/24/89

% Moisture: not dec. _____ Date Analyzed: 08/25/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECM84

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12619 SAS No.: _____ SDG No.: ECM81

Matrix: (soil/water) WATER Lab Sample ID: CPC12

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VOCPC12

Level: (low/med) LOW Date Received: 08/24/89

% Moisture: not dec. _____ Date Analyzed: 08/29/89

Column: (pack/cap) PACK Dilution Factor: 1.0

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	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

000033

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECM84

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12619 SAS No.: _____ SDG No.: ECM81

Matrix: (soil/water) WATER Lab Sample ID: CPC12

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VOCPC12

Level: (low/med) LOW Date Received: 08/24/89

% Moisture: not dec. _____ Date Analyzed: 08/29/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000034

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECM85

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12619 SAS No.: _____ SDG No.: ECM81

Matrix: (soil/water) WATER Lab Sample ID: CPC13

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VOCPC13

Level: (low/med) LOW Date Received: 08/24/89

% Moisture: not dec. _____ Date Analyzed: 08/25/89

Column: (pack/cap) PACK Dilution Factor: 1.0

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	5	U
67-64-1	Acetone	9	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECM85

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12619 SAS No.: _____ SDG No.: ECM81

Matrix: (soil/water) WATER Lab Sample ID: CPC13

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VOCPC13

Level: (low/med) LOW Date Received: 08/24/89

% Moisture: not dec. _____ Date Analyzed: 08/25/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: NOV 15 1989

SUBJECT: **Review of Region 5 data for** WCI-FREEZER

FROM: **Curtis Ross, Director** CR
Region 5 Central Regional Laboratory

To: **Data User:**

Attached are the results for:

CRL Data Set Numbers: RCRA 6508 CASE 12619
Sample Numbers: 89KG03S01-S05
Parameter(s): Total Metals (5)
Laboratory: Skinner & Sherman

Results Status:

( ) **DATA ACCEPTABLE FOR USE***
(✓) **DATA QUALIFIED AS TO USE**
( ) **DATA UNACCEPTABLE FOR USE**

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to David Payne, the Quality Control Coordinator, at 3-3805

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

TRANSMITTED BY
NOV 15 1989
U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE:
Comments:

Filed by/date:

TMA
Thermo Analytical Inc.

Skinner & Sherman Laboratories Inc.
300 Second Avenue
Post Office Box 521
Waltham, MA 02254-0521
(617) 890-7200

RECEIVED
SEP 14 1989
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Federal Express #4981382523

13 September 1989

USEPA Contract Laboratory Program (CLP)
Sample Management Office (SMO)
300 North Lee Street, Suite 200
Alexandria, VA 22313

Attention: Linda Boynton

Dear Ms. Boynton:

Enclosed is the Sample Data Package for the Inorganic Analyses of Case #12619, SDG #MEAX01. The samples were analyzed under Skinner and Sherman Work Order #8908188.

Please feel free to call if there are any questions concerning the enclosed.

Sincerely,

SKINNER AND SHERMAN LABORATORIES, INC.

Richard Purdy
Contract Laboratory Program
Program Manager

RP/cd

Encl.

cc: Data Audit Staff, EMSL-LV, Federal #4981382534
Curtis Ross, USEPA Region V, Federal #4981382545

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0081

Lab Code: SKINER Case No.: 12619 SAS No.: SDG No.: MEAX01

SOW No.: 7/88

EPA Sample No.	Lab Sample ID.
MEAX01	08188-015
MEAX02	08188-025
MEAX02D	08188-0252
MEAX02S	08188-02D5
MEAX03	08188-035
MEAX04	08188-045
MEAX05	08188-055

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

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 and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Richard Purdy Name: Richard Purdy

Date: 8/18/89 Title: QA MANAGER.

COVER PAGE - IN Rev.6/89

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEAX01

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0081

Lab Code: SKINER Case No.: 12619 SAS No.: SDG No.: MEAX01

Matrix (soil/water): WATER Lab Sample ID: 08188-01S

Level (low/med): LOW Date Received: 08/24/89

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29.00	U		P
7440-36-0	Antimony	17.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	65.70	B		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	4.00	U		P
7440-70-2	Calcium	120000.00		E	P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.80	B		P
7439-89-6	Iron	24.00	U	E	P
7439-92-1	Lead	1.00	U	W	F
7439-95-4	Magnesium	34600.00		E	P
7439-96-5	Manganese	29.50		E	P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	7.20	B		P
7440-09-7	Potassium	2640.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	8.00	U		P
7440-23-5	Sodium	6640.00		E	P
7440-28-0	Thallium	3.00	U	N	F
7440-62-2	Vanadium	6.00	U		P
7440-66-6	Zinc	28.10			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEAX02

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0081

Lab Code: SKINER Case No.: 12619 SAS No.: SDG No.: MEAX01

Matrix (soil/water): WATER Lab Sample ID: 08188-02S

Level (low/med): LOW Date Received: 08/24/89

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29.00	U		P
7440-36-0	Antimony	17.00	U		P
7440-38-2	Arsenic	11.80			F
7440-39-3	Barium	62.20	B		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	4.00	U		P
7440-70-2	Calcium	156000.00		E	P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	4380.00		E	P
7439-92-1	Lead	1.00	U	W	F
7439-95-4	Magnesium	33900.00		E	P
7439-96-5	Manganese	1210.00		E	P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	4080.00	B		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	8.00	U		P
7440-23-5	Sodium	36000.00		E	P
7440-28-0	Thallium	3.00	U	NW	F
7440-62-2	Vanadium	6.00	U		P
7440-66-6	Zinc	33.40			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEAX03

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0081

Lab Code: SKINER Case No.: 12619 SAS No.: SDG No.: MEAX01

Matrix (soil/water): WATER Lab Sample ID: 08188-03S

Level (low/med): LOW Date Received: 08/24/89

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29.00	U		P
7440-36-0	Antimony	17.00	U		P
7440-38-2	Arsenic	8.30	B	W	F
7440-39-3	Barium	48.70	B		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	4.00	U		P
7440-70-2	Calcium	86900.00		E	P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	28.00	B	E	P
7439-92-1	Lead	1.40	B		F
7439-95-4	Magnesium	20100.00		E	P
7439-96-5	Manganese	337.00		E	P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	14.00	B		P
7440-09-7	Potassium	3130.00	B		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	8.00	U		P
7440-23-5	Sodium	41300.00		E	P
7440-28-0	Thallium	3.00	U	N	F
7440-62-2	Vanadium	6.00	U		P
7440-66-6	Zinc	28.30			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEAX04

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0081

Lab Code: SKINER Case No.: 12619 SAS No.: SDG No.: MEAX01

Matrix (soil/water): WATER Lab Sample ID: 08188-04S

Level (low/med): LOW Date Received: 08/24/89

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29.00	U		P
7440-36-0	Antimony	17.00	U		P
7440-38-2	Arsenic	8.60	B	W	F
7440-39-3	Barium	48.30	B		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	4.00	U		P
7440-70-2	Calcium	86600.00		E	P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	24.00	U	E	P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	20100.00		E	P
7439-96-5	Manganese	250.00		E	P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	3150.00	B		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	8.00	U		P
7440-23-5	Sodium	41600.00		E	P
7440-28-0	Thallium	3.00	U	N	F
7440-62-2	Vanadium	6.00	U		P
7440-66-6	Zinc	20.80			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

S

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEAX05

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0081

Lab Code: SKINER Case No.: 12619 SAS No.: SDG No.: MEAX01

Matrix (soil/water): WATER Lab Sample ID: 08188-05S

Level (low/med): LOW Date Received: 08/24/89

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29.00	U		P
7440-36-0	Antimony	17.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	14.40	B		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	4.00	U		P
7440-70-2	Calcium	159.00	B	E	P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	24.00	U	E	P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	57.30	B	E	P
7439-96-5	Manganese	3.00	U	E	P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	179.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	8.00	U		P
7440-23-5	Sodium	162.00	B	E	P
7440-28-0	Thallium	3.00	U	N	F
7440-62-2	Vanadium	6.00	U		P
7440-66-6	Zinc	12.10	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

3
BLANKS

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-09-0081

Lab Code: SKINEP Case No.: 12619 SAS No.: SDG No.: MEAX01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	-38.6	B	29.0	U	29.0	U	29.0	U	29.0	U	P
Antimony	17.0	U	17.0	U	17.0	U	17.0	U	17.0	U	P
Arsenic	2.0	U	2.0	U					2.0	U	P
Barium	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	P
Beryllium	1.0	U	1.0	U	-1.1	B	1.0	U	1.0	U	P
Cadmium	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	P
Calcium	51.0	U	51.0	U	51.0	U	51.0	U	51.0	U	P
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	P
Cobalt	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	P
Copper	-11.0	B	-5.5	B	5.0	U	5.0	U	5.0	U	P
Iron	24.0	U	24.0	U	24.0	U	24.0	U	24.0	U	P
Lead	1.0	U	1.0	U					1.0	U	P
Magnesium	40.0	U	40.0	U	40.0	U	57.3	B	47.7	B	P
Manganese	3.0	U	-5.2	B	-5.2	B	-5.6	B	-4.5	B	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	CV
Nickel	7.0	U	7.0	U	7.0	U	7.0	U	7.0	U	P
Potassium	179.0	U	179.0	U	179.0	U	179.0	U	179.0	U	P
Selenium	2.0	U	2.0	U					2.0	U	P
Silver	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U	P
Sodium	74.0	U	74.0	U	74.0	U	74.0	U	74.0	U	P
Thallium	3.0	U	3.0	U					3.0	U	P
Vanadium	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	P
Zinc	6.0	U	6.0	U	6.0	U	6.0	U	18.5	B	P
Cyanide											NR

0012

U.S. EPA - CLP

3
BLANKS

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0081

Lab Code: SKINER Case No.: 12619 SAS No.: SDG No.: MEAX01

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			29.0	U							P
Antimony			17.0	U							P
Arsenic	2.0	U	2.0	U	2.0	U					P
Barium			3.0	U							P
Beryllium			1.0	U							P
Cadmium			4.0	U							P
Calcium			51.0	U							P
Chromium			10.0	U							P
Cobalt			5.0	U							P
Copper			-6.6	B							P
Iron			24.0	U							P
Lead	1.0	U	1.0	U	1.0	U					P
Magnesium			40.0	U							P
Manganese			-5.2	B							P
Mercury											NR
Nickel			7.0	U							P
Potassium			179.0	U							P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U			P
Silver			8.0	U							P
Sodium			74.0	U							P
Thallium	3.0	U	3.0	U	3.0	U					P
Vanadium			6.0	U							P
Zinc			6.0	U							P
Cyanide											NR

0013

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEAX02S

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0051

Lab Code: SKINER Case No.: 12619 SAS No.: SDG No.: MEAX01

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2045.2000		29.0000	U	2000.00	102.3		P
Antimony	75-125	489.0600		17.0000	U	500.00	97.8		P
Arsenic	75-125	58.7900		11.8350		40.00	117.4		F
Barium	75-125	2060.1000		62.2200	B	2000.00	99.9		P
Beryllium	75-125	45.8000		1.0000	U	50.00	91.6		P
Cadmium	75-125	47.7700		4.0000	U	50.00	95.5		P
Calcium									NR
Chromium	75-125	201.8200		10.0000	U	200.00	100.9		P
Cobalt	75-125	478.3400		5.0000	U	500.00	95.7		P
Copper	75-125	230.2700		5.0000	U	250.00	92.1		P
Iron		5455.4000		4382.5000		1000.00	107.3		P
Lead	75-125	20.3500		1.0000	U	20.00	101.8		F
Magnesium									NR
Manganese	75-125	1672.6000		1210.8000		500.00	92.4		P
Mercury	75-125	1.2700		0.2000	U	1.00	127.0	N	CV
Nickel	75-125	465.6900		7.0000	U	500.00	93.1		P
Potassium									NR
Selenium	75-125	9.8550		2.0000	U	10.00	98.6		F
Silver	75-125	57.5200		8.0000	U	50.00	115.0		P
Sodium									NR
Thallium	75-125	33.2850		3.0000	U	50.00	66.6	N	F
Vanadium	75-125	483.9700		6.0000	U	500.00	96.8		P
Zinc	75-125	483.2000		33.3800		500.00	90.0		P
Cyanide									NR

Comments:

0015

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEAXC3A

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0051

Lab Code: SKINER Case No.: 12619 SAS No.: SDG No.: MEAXC1

Matrix: WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

5
DUPLICATES

EPA SAMPLE NO.

MEAX00D

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-D9-0081

Lab Code: SKINER Case No.: 10619 SAS No.: SDG No.: MEAX01

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		29.0000	U	29.0000	U			P
Antimony		17.0000	U	17.0000	U			P
Arsenic	10.0	11.8350		14.0500		17.1		F
Barium		62.2200	B	64.8300	B	4.1		P
Beryllium		1.0000	U	1.0000	U			P
Cadmium		4.0000	U	4.0000	U			P
Calcium		155880.0000		159260.0000		2.1		P
Chromium		10.0000	U	10.0000	U			P
Cobalt		5.0000	U	5.5700	B	200.0		P
Copper		5.0000	U	5.0000	U			P
Iron		4382.5000		4568.4000		4.2		F
Lead		1.0000	U	1.0000	U			F
Magnesium		33858.0000		34803.0000		2.8		P
Manganese		1210.8000		1232.8000		1.8		P
Mercury		0.2000	U	0.2000	U			CV
Nickel		7.0000	U	7.0000	U			P
Potassium		4076.5000	B	4391.0000	B	7.4		P
Selenium		2.0000	U	1.1207	U			F
Silver		8.0000	U	8.0000	U			P
Sodium		35955.0000		37921.0000		5.3		P
Thallium		3.0000	U	3.0000	U			F
Vanadium		6.0000	U	6.0000	U			P
Zinc	20.0	33.3800		21.2800		44.3		P
Cyanide								NR

0017

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-09-0081

Lab Code: SKINER Case No.: 12619 SAS No.: SDG No.: MEAX01

Solid LCS Source:

Aqueous LCS Source: SKINER

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Aluminum	10000.0	9680.30	96.8					
Antimony	1000.0	956.20	95.6					
Arsenic	50.0	48.82	97.6					
Barium	1000.0	1015.70	101.6					
Beryllium	1000.0	974.91	97.5					
Cadmium	1000.0	998.92	99.9					
Calcium	10000.0	10304.00	103.0					
Chromium	1000.0	1018.20	101.8					
Cobalt	1000.0	993.32	99.3					
Copper	1000.0	967.74	96.8					
Iron	1000.0	1038.00	103.8					
Lead	50.0	56.36	112.7					
Magnesium	10000.0	10052.00	100.5					
Manganese	1000.0	982.06	98.2					
Mercury								
Nickel	10000.0	9766.90	97.7					
Potassium	10000.0	9977.40	99.8					
Selenium	50.0	42.66	85.3					
Silver	3000.0	2869.70	95.7					
Sodium	10000.0	10086.00	100.9					
Thallium	50.0	55.30	110.6					
Vanadium	1000.0	1004.70	100.5					
Zinc	1000.0	965.90	96.6					
Cyanide								

0018

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: JUL 25 1989

SUBJECT: **Review of Region 5 data for** WC 1 - FREEZER

FROM: **Curtis Ross, Director** Chuck Elbs for
Region 5 Central Regional Laboratory

To: **Data User:**

Attached are the results for:

CRL Data Set Numbers: RCRA 6294 CASE 12095
Sample Numbers: 89KV0501-S05
Parameter(s): VOLATILES (5)
Laboratory: Gulf South Environmental Labs

Results Status:

(X) **DATA ACCEPTABLE FOR USE*** See Review Comments
( ) **DATA QUALIFIED AS TO USE**
( ) **DATA UNACCEPTABLE FOR USE**

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to David Payne, the Quality Control Coordinator, at 3-3805

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

TRANSMITTED BY
S Griffin
JUL 25 1989

RECEIVED BY/DATE:
Comments:

U.S. EPA CENTRAL
REGIONAL LAB

Filed by/date:

DATA QUALIFIERS

Contractor: Gulf South Environmental Labs

Case 12095

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

are all reasonable based on the method used for analysis.

I find the data contained within this package to be acceptable for use.

DDF 7-24-89

Reviewed by: Diane Dennis-Flagler

Phone: 7-24-89

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

EPA

Organic Traffic Report
(For CLP Use Only)

Case Number: 12095
SAS No. (if applicable):

1. Sample Description (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil (SAS)
7. Waste (SAS)
8. Other (SAS) (Specify)

2. Region Number: 5
Sampling Co.: MPCA
Sampler (Name): Kevin Veach
3. Ship To: Cindy Palazzo, Gulf South Environmental Laboratories, 6801 Press Dr, E. Bldg., New Orleans, LA 70126

4. Date Shipped:
Airbill Number: 728592502
Carrier: Airborn Express
Triple volume required for matrix spike/duplicate aqueous sample.
Ship medium and high concentration samples in paint cans.
See reverse for additional instructions.

5. Date Received: 6-6-89 Received by: Leslie LeSauchere
Laboratory Contract Number: 68-01-0038
Unit Price: $937.00
6. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Number (From labels)	(A) Sample Description (From box 1)	(B) Concentration L=low M=med H=high	(C) RAS Analysis VOA	BNA	Pest/PCB	(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number	(H) Sample Condition on Receipt	(I) High Conc. Phases (Check below) Solid	Water—MIS Liq.	Non Water—MIS Liq.
~~EEB37~~	~~5~~	~~L~~	~~X~~						~~MEEZ 00~~	SAMPLE RETAINED BY MPCA			
EEB 38 ✓	5	L	X						MEEZ 01				
EEB 39 ✓	5	L	X						MEEZ 02				
EEB 40 ✓	5	L	X						MEEZ 03				
~~EEB 41~~	~~5~~	~~L~~	~~X~~						~~MEEZ 04~~	SAMPLE RETAINED BY MPCA			
EEB 42 ✓	5	L	X						MEEZ 05				
~~EEB 43~~	~~5~~	~~L~~	~~X~~						~~MEEZ 06~~	SAMPLE RETAINE BY MPCA			
EEB 44 ✓	5	L	X						MEEZ 07				

PARAMETER:	YES	NO
ICE PRESENT?	✓	
BOTTLES BROKEN?		✓
EPA TAG PRESENT?		✓
SHIPPING SEALS?		✓
CONTAINER SEALS?		✓
CUSTODY FORM OK?		✓
LABELS ACCURATE?		✓
NOTES COMMENTS (if none)		

SDG No. EEB 38
final SDG No. EEB 44

000001

EPA Form 9110-2 (8-88) Replaces EPA Form 2075-7, which may be used. Blue - SMO Copy Pink - Region Copy White - Lab Copy for Return to SMO Yellow - Lab Copy

GULF SOUTH ENVIRONMENTAL LABORATORY

formerly GSRI

RECEIVED
JUN 20 1989
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Sample Data Package

EPA Contract No. 68-D9-0038

Project No. 6200-3026

Case 12095

Episode(s): CGX

Presented to:

U.S. Environmental Protection Agency
Sample Management Office
Contract Laboratory Program
209 Madison Street, Ste. 200
Alexandria, Virginia 22314

Present by:

Analytical Chemistry Department
Gulf South Environmental Laboratory, Inc.
P.O. Box 26518
New Orleans, Louisiana 70186

June 19, 1989

GULF SOUTH ENVIRONMENTAL LABORATORY
formerly GSRI

Narrative

Case 12095

Post Office Box 26518 • New Orleans, Louisiana 70186 • Phone (504)283-4223 • Fax (504)288-3625

Gulf South Environmental Laboratory
Case 12095

EPA Contract No. 68-D9-0038
SDG No. EEB38

Narrative

Case 12095 (SDG EEB38) consisted of five (5) soil samples which were received by Gulf South Environmental Laboratory on June 6, 1989 and logged in as Episode CGX. The samples were identified as follows:

EEB38 EEB39 EEB40 EEB42 EEB44

The samples were analyzed for volatile organics only. Twenty additional samples, received on June 6, 1989 are being reported as SDG EEB45.

No problems were encountered with the analyses.

"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 and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Richard R. Whitney , Ph.D.
GC/MS Laboratory Manager

6/19/89
Date

ANALYTICAL CHEMISTRY DEPARTMENT

PERSONNEL SIGNATURE RECORD

NAME	POSITION	DATE	SIGNATURE	INITIALS
James E. Henderson	Project Manager	1/10/89	James E Henderson	JEH
Richard R. Whitney	GC/MS Lab Manager	1/10/89	Richard R Whitney	RRW
Cindy Palazzo	Report Center Manager	1/10/89	Cindy Palazzo	CP
Maude Young	Administrative Assistant	1/10/89	Maude Young	MY
Keith Rhode	Inorganics Lab Manager	1/10/89	Keith J Rhode	KJR
Mike Pearson	Prep Lab Manager	1/10/89	Mike Pearson	MP
Al Jarquin	Mass Spec Operator	1/10/89	Al Jarquin	AJ
Marie Sears	Laboratory Technician	1/10/89	Marie Sears	MS
Darryl Melcancon	Data Specialist	1/10/89	Darryl Melancon	DFM
Hari Singh	Mass Spec Operator	1/10/89	H Singh	HJS
Homer Sheeler	Laboratory Technician	1/10/89	Homer Sheeler	HS
Sherry Phillips	Laboratory Technician	1/10/89	Sherry Phillips	SP
Shelley Antoine	Mass Spec Operator	1/10/89	Shelley Antoine	SA
Kevin Kern	Mass Spec Operator	1/10/89	Kevin J. Kern	KJK
Joann McFall	Mass Spec Operator	1/10/89	Jo Ann McFall	JM
Celia H. Mayuer	Data Specialist	1/10/89	Celia H. Mayuer	CHM
Timothy Morris	Laboratory Technician	1/10/89	Timothy A. Morris	TAM
Stephanie Fairchild	Laboratory Technician	1/10/89	Stephanie Fairchild	SLF
Louis Nicosia	Laboratory Technician	1/10/89	Louis Nicosia	LN
Richard Prator	Laboratory Technician	1/10/89	Richard Prator	RP

ANALYTICAL CHEMISTRY DEPARTMENT

PERSONNEL SIGNATURE RECORD

NAME	POSITION	DATE	SIGNATURE	INITIALS
~~Carlos Guerrero~~	~~Data Specialist~~	~~1/10/89~~	~~Carlos Guerrero~~	~~CG.~~ mcf 4/11/89
Monica Musmeci	Data Specialist	1/10/89	Monica Musmeci	MAM
Cindy Rhode	Laboratory Technician	1/10/89	Cynthia Rhode	CHR
Shirley Jeffrion	Laboratory Technician	1/10/89	Shirley Jeffrion	SJJ
Elaine Wild	Laboratory Technician	1/10/89	Elaine L. Wild	ELW
Frank Piehl	Manager GC Laboratory	3/15/89	Frank Piehl	FP
Sandra Mucha	Report Specialist	4/11/89	Sandra Mucha	SM
Denise Jermoe	Chemist	4/11/89	Denise Jermoe	dj
Carline Lumsden	Laboratory Technician	4/11/89	Carline Lumsden	C.S.L.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB38

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB38

Matrix: (soil/water) SOIL Lab Sample ID: CGX01

Sample wt/vol: 4.6 (g/mL) G Lab File ID: VOCGX01

Level: (low/med) LOW Date Received: 06/06/89

% Moisture: not dec. 7 Date Analyzed: 06/06/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	8	B
67-64-1	Acetone	14	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	30 ~~29~~ mun	B
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB38

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB38

Matrix: (soil/water) SOIL Lab Sample ID: CGX01

Sample wt/vol: 4.6 (g/mL) G Lab File ID: VOCGX01

Level: (low/med) LOW Date Received: 06/06/89

% Moisture: not dec. 7 Date Analyzed: 06/06/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR ARTIFACT	8.07	11	BJ
2.	UNKNOWN HYDROCARBON	22.77	6.3	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB39

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB38

Matrix: (soil/water) SOIL Lab Sample ID: CGX03

Sample wt/vol: 4.9 (g/mL) G Lab File ID: VOCGX03

Level: (low/med) LOW Date Received: 06/06/89

% Moisture: not dec. 9 Date Analyzed: 06/06/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	B
67-64-1	Acetone	22	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	32	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB39

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB38

Matrix: (soil/water) SOIL Lab Sample ID: CGX03

Sample wt/vol: 4.9 (g/mL) G Lab File ID: VOCGX03

Level: (low/med) LOW Date Received: 06/06/89

% Moisture: not dec. 9 Date Analyzed: 06/06/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR ARTIFACT	8.03	9.4	BJ
2.	UNKNOWN HYDROCARBON	22.77	7.5	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB40

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB38

Matrix: (soil/water) SOIL Lab Sample ID: CGX05

Sample wt/vol: 4.5 (g/mL) G Lab File ID: VOCGX05

Level: (low/med) LOW Date Received: 06/06/89

% Moisture: not dec. 14 Date Analyzed: 06/06/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	15	B
67-64-1	Acetone	19	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB40

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB38

Matrix: (soil/water) SOIL Lab Sample ID: CGX05

Sample wt/vol: 4.5 (g/mL) G Lab File ID: VOCGX05

Level: (low/med) LOW Date Received: 06/06/89

% Moisture: not dec. 14 Date Analyzed: 06/06/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR ARTIFACT	8.15	9.0	J
2.	UNKNOWN HYDROCARBON	22.77	11	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB42

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB38

Matrix: (soil/water) SOIL Lab Sample ID: CGX07

Sample wt/vol: 4.9 (g/mL) G Lab File ID: VOCGX07

Level: (low/med) LOW Date Received: 06/06/89

% Moisture: not dec. 14 Date Analyzed: 06/07/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	84	B
67-64-1	Acetone	27	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB42

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB38

Matrix: (soil/water) SOIL Lab Sample ID: CGX07

Sample wt/vol: 4.9 (g/mL) G Lab File ID: VOCGX07

Level: (low/med) LOW Date Received: 06/06/89

% Moisture: not dec. 14 Date Analyzed: 06/07/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR ARTIFACT	8.07	9.6	J
2.	UNKNOWN HYDROCARBON	18.59	7.3 ~~7.4~~	J MM
3.	UNKNOWN HYDROCARBON	22.77	10	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB44

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB38

Matrix: (soil/water) SOIL Lab Sample ID: CGX09

Sample wt/vol: 4.9 (g/mL) G Lab File ID: VOCGX09

Level: (low/med) LOW Date Received: 06/06/89

% Moisture: not dec. 13 Date Analyzed: 06/07/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	85	B
67-64-1	Acetone	54	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB44

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB38

Matrix: (soil/water) SOIL Lab Sample ID: CGX09

Sample wt/vol: 4.9 (g/mL) G Lab File ID: VOCGX09

Level: (low/med) LOW Date Received: 06/06/89

% Moisture: not dec. 13 Date Analyzed: 06/07/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR ARTIFACT	8.03	13	J
2.	UNKNOWN HYDROCARBON	18.59	7.4	J
3.	UNKNOWN HYDROCARBON	22.77	10	J

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: JUL 25 1989

SUBJECT: **Review of Region 5 data for** WCI FREEZER

FROM: **Curtis Ross, Director** Chuck Eldy for
Region 5 Central Regional Laboratory

To: **Data User:**

Attached are the results for:

CRL Data Set Numbers: RCRA 6294 CASE 12095
Sample Numbers: 89KV01S01-S25 (20)
Parameter(s): VOLATILES
Laboratory: Gulf South Environmental Labs

Results Status:

(X) **DATA ACCEPTABLE FOR USE*** See Reviewer's Comments
( ) **DATA QUALIFIED AS TO USE**
( ) **DATA UNACCEPTABLE FOR USE**

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to David Payne, the Quality Control Coordinator, at 3-3805

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

TRANSMITTED BY
S. Griffin
JUL 25 1989

U.S. EPA CENTRAL
REGIONAL LAB

RECEIVED BY/DATE:
Comments:

Filed by/date:

DATA QUALIFIERS

Contractor: Gulf South Environmental Labs

Case 12095 / RCRA 6294

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

analysis performed.
I find no problems with the data package and I consider the data acceptable for use.

DDF 7-24-89

Reviewed by: Diane Dennis-Flagler

Phone:

Date: 7-24-89

GULF SOUTH ENVIRONMENTAL LABORATORY

formerly GSRI

Traffic Reports

Case 12095

Post Office Box 26518 • New Orleans, Louisiana 70126 •

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report
(For CLP Use Only)

Case Number: 12095
SAS No. (if applicable):

1. Sample Description *(Enter in Column A)*
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (SAS)
   7. Waste (SAS)
   8. Other (SAS) *(Specify)*

2. Region Number: 5
Sampling Co.: MPCA
Sampler (Name): Kevin Veach
3. Ship To: Gulf South Env. Lab. 6801 Press Dr; E. Bldg New Orleans, LA 70126

4. Date Shipped: 6/9/89
Airbill Number: 250 882192
Carrier: Airborn Express

Triple volume required for matrix spike/duplicate aqueous sample.
Ship medium and high concentration samples in paint cans.
See reverse for additional instructions.

5. Date Received: 6-10-89
Received by: Leslie LeSaicher
Laboratory Contract Number: 68-D9-0038
Unit Price: $937.00
6. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Number (From labels)	(A) Sample Description (From box 1)	(B) Concentration L=low M=med H=high	(C) RAS Analysis VOA	BNA	Pest/PCB	(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number	(H) Sample Condition on Receipt	(I) High Conc. Phases (Check below) Solid	Water—MIS Liq.	Non Water—MIS Liq.
EEB 45	5	L	X				B2	6/7 959	MEEZ 08				
EEB 46	5	L	X				B2	6/7 1011	Meez 09				
~~EEB 47~~	~~5~~	~~L~~	~~X~~				~~B2~~	~~6/7 1026~~	~~Meez 10~~	Returned by MPCA			
EEB 48	5	L	X				B2	6/7 1045	Meez 11				
EEB 49	5	L	X				B2	6/7 1056	Meez 12				
EEB 51	5	L	X				B2	6/7 1148	Meez 14				
~~EEB 52~~	~~5~~	~~L~~	~~X~~				~~B2~~	~~6/7 1210~~	~~Meez 15~~	Returned by MPCA			
EEB 53	5	L	X				B-3	6/7 1334	Meez 16				
~~EEB 54~~	~~5~~	~~L~~	~~X~~				~~B-3~~	~~6/7~~	~~Meez 17~~	Returned by MPCA			
EEB 55	5	L	X				B-3	6/7 1357	Meez 18				
EEB 56	5	L	X				B-3	6/7 1405	Meez 19				
~~EEB 57~~	~~5~~	~~L~~	~~X~~				~~B-3~~	~~6/7~~	~~Meez 20~~				
EEB 58	5	L	X				B-3	6/7 1430	Meez 21				
~~EEB 59~~	~~5~~	~~L~~	~~X~~				~~B-3~~	~~6/7~~	~~Meez 22~~	Returned by MPCA			
EEB 60	5	L	X				B-3	6/7 1458	~~Meez 23~~	Inorg. not sampled			
								SDG No. EEB 45					
								Final SDG No. EEB 74					

PARAMETER	YES	NO
ICE PRESENT?		✓
BOTTLES BROKEN?	✓	
EPA TAG PRESENT?	✓	
SHIPPING SEALS?	✓	
CONTAINER SEALS?	✓	
CHAIN OF CUSTODY FORM OK?	✓	
LABELS ACCURATE?	✓	
NOTES COMMENTS (if none)		

000001

EPA Form 9110-2 (8-88) Replaces EPA Form 2075-7, which may be used. Blue - SMO Copy Pink - Region Copy White - Lab Copy for Return to SMO Yellow - Lab Copy

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report
(For CLP Use Only)

Case Number: 12095
SAS No. (if applicable):

1. Sample Description *(Enter in Column A)*
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (SAS)
   7. Waste (SAS)
   8. Other (SAS) *(Specify)*

2. Region Number: 5
Sampling Co.: MPCA
Sampler (Name): Kevin Veach

3. Ship To: Gulf South Env. Lab, 6801 Press Dr. E. Bldg, New Orleans, LA 70126

4. Date Shipped: 6/9/89
Airbill Number: 250882192
Carrier: Airborn Express

Triple volume required for matrix spike/duplicate aqueous sample.

Ship medium and high concentration samples in paint cans.

See reverse for additional instructions.

5. Date Received: 6-10-89
Received by: Leslie LeSaichere
Laboratory Contract Number: 68-D9-0038
Unit Price: $937.00

6. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Number (From labels)	(A) Sample Description (From box 1)	(B) Concentration L=low M=med H=high	(C) RAS Analysis VOA	BNA	Pest/PCB	(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number	(H) Sample Condition on Receipt	(I) High Conc. Phases (Check below) Solid	Water—MIS Liq.	Non Water—MIS Liq.
EEB 61	5	L	X				B-4	6/8 1000	Meez 24	PARAMETER:	YES	NO	
EEB 63	5	L	X				B-4	6/8 1025	Meez 26	CE PRESENT?	—	✓	
EEB 64	5	L	X				B-4	6/8 1045	Meez 27	BOTTLES BROKEN?	—	—	
EEB 65	5	L	X				B-4	6/8 1100	Meez 28	EPA TAG PRESENT?	✓	—	
EEB 66	5	L	X				B-4	6/8 1110	Meez 29	SHIPPING SEALS?	✓	✓	
EEB 69	5	L	X				B-5	6/8 1350	Meez 32	CONTAINER SEALS?	—	—	
EEB 70	5	L	X				B-5	6/8 1400	Meez 33	CUSTODY FORM OK?	✓	—	
EEB 71	5	L	X				B-5	6/8 1415	Meez 34	LABELS ACCURATE?	✓	✓	
EEB 72	5	L	X				B-5	6/8 1430	Meez 35	NOTES COMMENTS (If none)	—	—	
EEB 74	5	L	X				B-5	6/8 1455	Meez 37				

SDG No. EEB45
Final SDG No. EEB74

000002

EPA Form 91[illegible] (8-88) Replaces EPA Form 2075-7, which may be used. Blue - SMO Copy Pink - Region Copy White - Lab Copy for Return to SMO Yellow - Lab Copy

GULF SOUTH ENVIRONMENTAL LABORATORY

formerly GSRI

Sample Data Package

EPA Contract No. 68-D9-0038

Project No. 6200-3026

Case 12095

Episode(s): CHN

Presented to:

U.S. Environmental Protection Agency
Sample Management Office
Contract Laboratory Program
209 Madison Street, Ste. 200
Alexandria, Virginia 22314

Present by:

Analytical Chemistry Department
Gulf South Environmental Laboratory, Inc.
P.O. Box 26518
New Orleans, Louisiana 70186

June 27, 1989

GULF SOUTH ENVIRONMENTAL LABORATORY
formerly GSRI

Narrative

Case 12095

Post Office Box 26518 • New Orleans, Louisiana 70186 • Phone (504)283-4223 • Fax (504)288-3625

Gulf South Environmental Laboratory
Case 12095

EPA Contract No. 68-D9-0038
SDG No. EEB45

Narrative

Case 12095 (SDG EEB45) consisted of twenty (20) soil samples which were received by Gulf South Environmental Laboratory on June 10, 1989 and logged in as Episode CHN. The samples were identified as follows:

EEB-45	EEB-53	EEB-61	EEB-69
EEB-46	EEB-55	EEB-63	EEB-70
EEB-48	EEB-56	EEB-64	EEB-71
EEB-49	EEB-58	EEB-65	EEB-72
EEB-51	EEB-60	EEB-66	EEB-74

The samples were analyzed for volatile organics only. Five additional samples, received on June 6, 1989 were reported as SDG EEB38.

No unusual problems were encountered with the analyses.

"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 and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Richard R. Whitney , Ph.D.
GC/MS Laboratory Manager

6/27/89
Date

ANALYTICAL CHEMISTRY DEPARTMENT

PERSONNEL SIGNATURE RECORD

NAME	POSITION	DATE	SIGNATURE	INITIALS
James E. Henderson	Project Manager	1/10/89	James E. Henderson	JEH
Richard R. Whitney	GC/MS Lab Manager	1/10/89	Richard R. Whitney	RRW
Cindy Palazzo	Report Center Manager	1/10/89	Cindy Palazzo	CP
Maude Young	Administrative Assistant	1/10/89	Maude Young	MY
Keith Rhode	Inorganics Lab Manager	1/10/89	Keith R. Rhode	KTR
Mike Pearson	Prep Lab Manager	1/10/89	Mike Pearson	MEP
Al Jarquin	Mass Spec Operator	1/10/89	Al Jarquin	AJ
Marie Sears	Laboratory Technician	1/10/89	Marie Sears	MYS
Darryl Melcancon	Data Specialist	1/10/89	Darryl Melcancon	DFM
Hari Singh	Mass Spec Operator	1/10/89	Hari Singh	HJS
Homer Sheeler	Laboratory Technician	1/10/89	Homer Sheeler	HS
Sherry Phillips	Laboratory Technician	1/10/89	Sherry Phillips	SP
Shelley Antoine	Mass Spec Operator	1/10/89	Shelley Antoine	SA
Kevin Kern	Mass Spec Operator	1/10/89	Kevin J. Kern	KJK
Joann McFall	Mass Spec Operator	1/10/89	Jo Ann McFall	Jam
Celia H. Mayuer	Data Specialist	1/10/89	Celia H. Mayuer	CHM
Timothy Morris	Laboratory Technician	1/10/89	Timothy A. Morris	TAM
Stephanie Fairchild	Laboratory Technician	1/10/89	Stephanie Fairchild	S.L.F.
Louis Nicosia	Laboratory Technician	1/10/89	Louis Nicosia	LN
Richard Prator	Laboratory Technician	1/10/89	Richard Prator	RP

000002

ANALYTICAL CHEMISTRY DEPARTMENT

PERSONNEL SIGNATURE RECORD

NAME	POSITION	DATE	SIGNATURE	INITIALS
~~Carlos Guerrero~~	~~Data Specialist~~	~~1/10/89~~	~~Carlos Guerrero~~	~~CG.~~ mcf 4/11/89
Monica Musmeci	Data Specialist	1/10/89	Monica Musmeci	MAM
Cindy Rhode	Laboratory Technician	1/10/89	Cynthia Rhode	CHR
Shirley Jeffrion	Laboratory Technician	1/10/89	Shirley Jeffrion	SJJ
Elaine Wild	Laboratory Technician	1/10/89	Elaine Wild	EAW
Frank Piehl	Manager GC Laboratory	3/15/89	Frank Piehl	FP
Sandra Mucha	Report Specialist	4/11/89	Sandra Mucha	SM
Denise Jermoe	Chemist	4/11/89	Denise Jermoe	dj
Carline Lumsden	Laboratory Technician	4/11/89	Carline Lumsden	C.S.L.

000003

GULF SOUTH ENVIRONMENTAL LABORATORY
formerly GSRI

Volatile Fraction

Sample Data

Case 12095

Post Office Box 26518 • New Orleans, Louisiana 70126 • Telephone(504)283-4223

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB45

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN01

Sample wt/vol: 4.8 (g/mL) G Lab File ID: VOCHN01

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 5 Date Analyzed: 06/13/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	45	B
67-64-1	Acetone	13	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB45

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN01

Sample wt/vol: 4.8 (g/mL) G Lab File ID: VOCHN01

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 5 Date Analyzed: 06/13/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	6.85	5.8	BJ
2.	UNKNOWN HYDROCARBON	18.72	30	J
3.	UNKNOWN HYDROCARBON	22.85	24	J
4.	UNKNOWN HYDROCARBON	26.57	83	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB46

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN03

Sample wt/vol: 4.7 (g/mL) G Lab File ID: VOCHN03

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 5 Date Analyzed: 06/13/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	36	B
67-64-1	Acetone	12	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB46

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN03

Sample wt/vol: 4.7 (g/mL) G Lab File ID: VOCHN03

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 5 Date Analyzed: 06/13/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	8.12	20	BJ
2.	UNKNOWN HYDROCARBON	18.64	21	J
3.	UNKNOWN HYDROCARBON	22.77	18	BJ
4.	UNKNOWN	26.46	64	J
5.	UNKNOWN HYDROCARBON	30.46	73	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB48

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN05

Sample wt/vol: 4.7 (g/mL) G Lab File ID: VOCHN05

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 6 Date Analyzed: 06/14/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	32	B
67-64-1	Acetone	15	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB48

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN05

Sample wt/vol: 4.7 (g/mL) G Lab File ID: VOCHN05

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 6 Date Analyzed: 06/14/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	7.05	7.3	BJ
2.	UNKNOWN HYDROCARBON	22.82	6.7	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB49

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN07

Sample wt/vol: 4.9 (g/mL) G Lab File ID: VOCHN07

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 8 Date Analyzed: 06/14/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	29	B
67-64-1	Acetone	16	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	34	
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB49

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN07

Sample wt/vol: 4.9 (g/mL) G Lab File ID: VOCHN07

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 8 Date Analyzed: 06/14/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	7.02	5.5	J

000083

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB51

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN09

Sample wt/vol: 4.6 (g/mL) G Lab File ID: VOCHN09

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 3 Date Analyzed: 06/14/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	31	B
67-64-1	Acetone	50	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	37	
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

000095A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB51

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN09

Sample wt/vol: 4.6 (g/mL) G Lab File ID: VOCHN09

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 3 Date Analyzed: 06/14/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	6.97	6.5	BJ
2.	UNKNOWN HYDROCARBON	22.85	2.9	J
3.	UNKNOWN	22.30	3.1	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB53

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN11

Sample wt/vol: 4.7 (g/mL) G Lab File ID: VOCHN11

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 5 Date Analyzed: 06/15/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	30	B
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB53

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN11

Sample wt/vol: 4.7 (g/mL) G Lab File ID: VOCHN11

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 5 Date Analyzed: 06/15/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	22.75	16	BJ
2.	AIR (ARTIFACT)	6.47	6.8	BJ

000116

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB55

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN13

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN13

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 5 Date Analyzed: 06/16/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	43	B
67-64-1	Acetone	9	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB55

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN13

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN13

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 5 Date Analyzed: 06/16/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	6.72	6.5	BJ
2.	UNKNOWN HYDROCARBON	22.84	14	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB56

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN15

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 7 Date Analyzed: 06/16/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	49	B
67-64-1	Acetone	7	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB56

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN15

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 7 Date Analyzed: 06/16/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	6.83	6.4	BJ
2.	UNKNOWN HYDROCARBON	22.84	11	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB58

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN17

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN17

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 7 Date Analyzed: 06/16/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	44	B
67-64-1	Acetone	27	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB58

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN17

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN17

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 7 Date Analyzed: 06/16/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	6.72	7.2	BJ
2.	UNKNOWN HYDROCARBON	22.80	11	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB60

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN19

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN19

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 7 Date Analyzed: 06/15/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	38	B
67-64-1	Acetone	31	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB60

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN19

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN19

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 7 Date Analyzed: 06/15/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR ARTIFACT	7.98	18	BJ
2.	UNKNOWN HYDROCARBON	22.75	14	J

000177

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB61

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN21

Sample wt/vol: 4.8 (g/mL) G Lab File ID: VOCHN21

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 8 Date Analyzed: 06/15/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	47	B
67-64-1	Acetone	12	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB61

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN21

Sample wt/vol: 4.8 (g/mL) G Lab File ID: VOCHN21

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 8 Date Analyzed: 06/15/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	7.90	25	BJ
2.	UNKNOWN HYDROCARBON	22.75	16	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB63

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN23

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN23

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 13 Date Analyzed: 06/15/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	44	B
67-64-1	Acetone	130	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB63

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN23

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN23

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 13 Date Analyzed: 06/15/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR ARTIFACT	7.85	22	BJ
2.	UNKNOWN HYDROCARBON	22.75	14	J

000208

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB64

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN25

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN25

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 12 Date Analyzed: 06/16/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	64	B
67-64-1	Acetone	16	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB64

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN25

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN25

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 12 Date Analyzed: 06/16/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	6.80	6.4	BJ
2.	UNKNOWN HYDROCARBON	22.84	18	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB65

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN28

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN28

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 11 Date Analyzed: 06/15/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	44	B
67-64-1	Acetone	9	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB65

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN28

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN28

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 11 Date Analyzed: 06/15/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	7.82	21	BJ
2.	UNKNOWN HYDROCARBON	22.75	14	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB66

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN29

Sample wt/vol: 4.8 (g/mL) G Lab File ID: VOCHN29

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 8 Date Analyzed: 06/16/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	63	B
67-64-1	Acetone	30	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

000253

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB66

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN29

Sample wt/vol: 4.8 (g/mL) G Lab File ID: VOCHN29

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 8 Date Analyzed: 06/16/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	7.47	15	BJ
2.	UNKNOWN HYDROCARBON	22.80	11	BJ

000254

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB69

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN31

Sample wt/vol: 4.7 (g/mL) G Lab File ID: VOCHN31

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 20 Date Analyzed: 06/16/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	69	B
67-64-1	Acetone	120	B
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Xylene (total)	7	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB69

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN31

Sample wt/vol: 4.7 (g/mL) G Lab File ID: VOCHN31

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 20 Date Analyzed: 06/16/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	8.07	24	BJ
2.	UNKNOWN HYDROCARBON	22.80	11	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB70

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN33

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN33

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 11 Date Analyzed: 06/16/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	58	B
67-64-1	Acetone	19	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB70

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN33

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN33

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 11 Date Analyzed: 06/16/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	7.98	20	BJ
2.	UNKNOWN HYDROCARBON	22.75	10	BJ

000284

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB71

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN35

Sample wt/vol: 4.5 (g/mL) G Lab File ID: VOCHN35

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 15 Date Analyzed: 06/19/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	49	B
67-64-1	Acetone	25	~~B~~
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Xylene (total)	7	U

dl 7-24-89

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB71

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN35

Sample wt/vol: 4.5 (g/mL) G Lab File ID: VOCHN35

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 15 Date Analyzed: 06/19/89

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	7.10	9.3	BJ
2.	UNKNOWN HYDROCARBON	22.84	14	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB72

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN37

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN37

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 18 Date Analyzed: 06/16/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	70	B
67-64-1	Acetone	74	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB72

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN37

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VOCHN37

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 18 Date Analyzed: 06/16/89

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	7.85	23	BJ
2.	UNKNOWN HYDROCARBON	22.72	24	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EEB74

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN39

Sample wt/vol: 4.7 (g/mL) G Lab File ID: VOCHN39

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 13 Date Analyzed: 06/16/89

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	61	B
67-64-1	Acetone	22	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EEB74

Lab Name: G S E L I Contract: 68-D9-0038

Lab Code: GULF Case No.: 12095 SAS No.: _____ SDG No.: EEB45

Matrix: (soil/water) SOIL Lab Sample ID: CHN39

Sample wt/vol: 4.7 (g/mL) G Lab File ID: VOCHN39

Level: (low/med) LOW Date Received: 06/10/89

% Moisture: not dec. 13 Date Analyzed: 06/16/89

Column (pack/cap) PACK Dilution Factor: 1.00

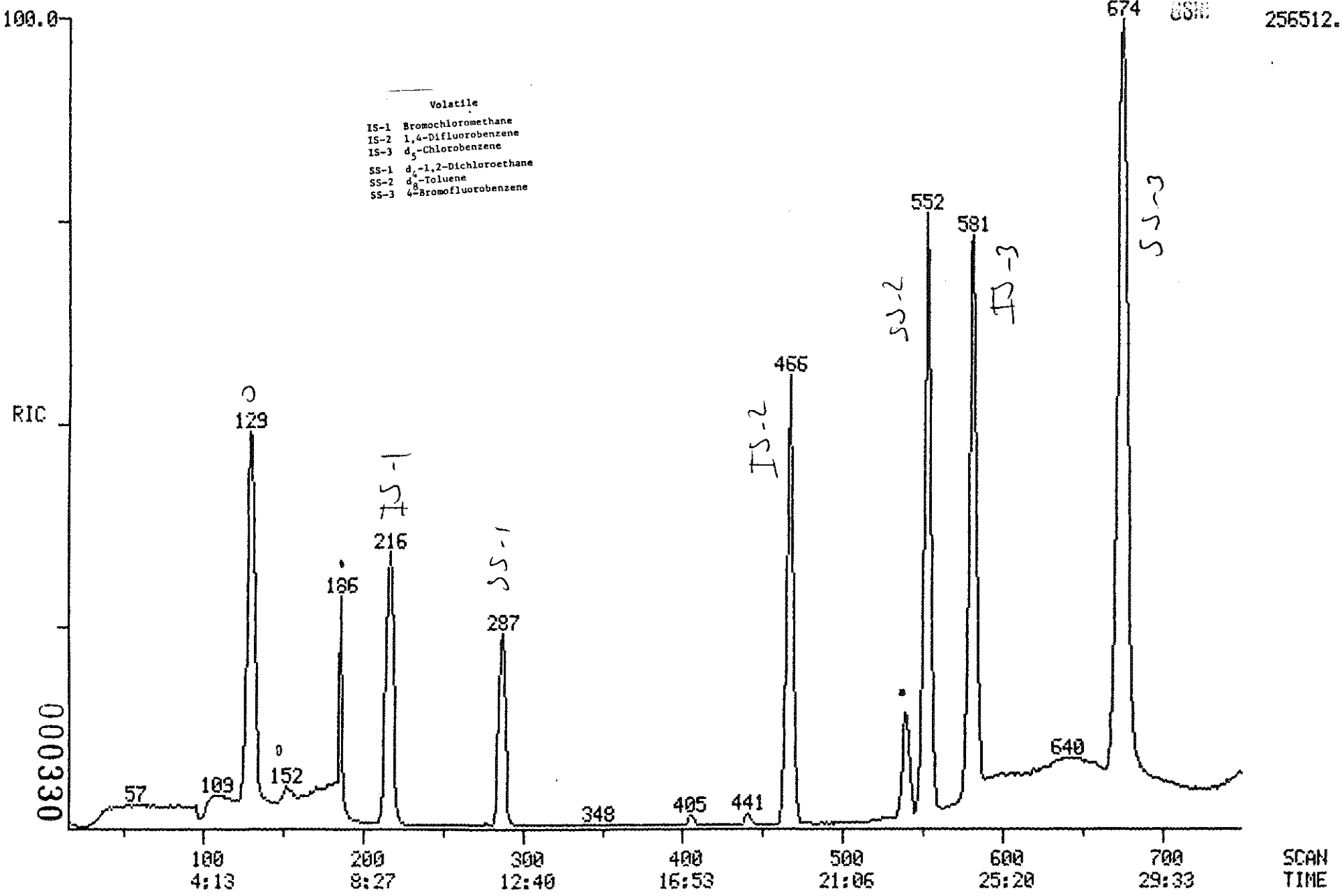
Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	AIR (ARTIFACT)	7.85	19	BJ
2.	UNKNOWN HYDROCARBON	22.75	14	BJ

RIC DATA: VOCHN39 #1 SCANS 15 TO 749
06/16/89 20:57:00 CALI: VOCHN39 #3
SAMPLE: EEB74 (LOW SOIL 4.7 GRS) CASE:12095
CONDS.: 1% SP-1000/CARB B 45/4-220@10 INST E
RANGE: G 1, 749 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

REVIEWED
JUN 1 1989
USM



000330

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: JUL 24 1989

SUBJECT: **Review of Region 5 data for** WC1 - FREEZER

FROM: **Curtis Ross, Director** Chi Fang for
Region 5 Central Regional Laboratory

To: **Data User:**

Attached are the results for:

CRL Data Set Numbers: RCRA 6294 CASE 12095
Sample Numbers: 89KV01501-S05 S16-S20, S21, S23-25
Parameter(s): Inorganics (14)
Laboratory: Keystone

Results Status:

(✓) **DATA ACCEPTABLE FOR USE***
( ) **DATA QUALIFIED AS TO USE**
( ) **DATA UNACCEPTABLE FOR USE**

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to David Payne, the Quality Control Coordinator, at 3-3805

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

TRANSMITTED BY
S. Griffin
JUL 24 1989

U.S. EPA CENTRAL
REGIONAL LAB

RECEIVED BY/DATE:
Comments:

Filed by/date:

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

Phone: 412/825-9600 3000 Tech Center Dr., Monroeville, PA 15146 Fax: 412/825-9699

July 11, 1989

RECEIVED
JUL 12 1989
U.S. EPA CENTRAL REGIONAL LAB.
536 S. CLARK
CHICAGO, ILLINOIS 60605

USEPA Region V ESD
536 S. Clark Street
Tenth Floor, CRL
Chicago, IL 60605

Attention Mr. Curtis Ross

Dear Mr. Ross:

Please find enclosed the Inorganic Data Package for RCRA Case No. 12095.

Sincerely,

Mary Anna Babich

Mary Anna Babich
CLP Project Manager

MAB/pb

Enclosure

cc: USEPA Environmental Monitoring
Systems Laboratory (EMSL-LV)
944 East Harmon Executive Center
Las Vegas, Nevada 89109

U.S. Environmental Protection Agency
Sample Management Office (SMO)
209 Madison Street, Suite 200
Alexandria, Virginia 22314

KEYSTONE ENVIRONMENTAL RESOURCES

NARRATIVE
CASE 12095

THE DATA CONTAINED IN THIS PACKAGE IS FOR THE RCRA PROGRAM.

PAGES 1-275 WERE REVIEWED BY MARY ANNA BABICH.

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00001

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

SOW No.: 7/87

EPA Sample No.	Lab Sample ID.
MEEZ01	MEEZ01
MEEZ01D	MEEZ01D
MEEZ01S	MEEZ01S
MEEZ02	MEEZ02
MEEZ03	MEEZ03
MEEZ05	MEEZ05
MEEZ07	MEEZ07
MEEZ24	MEEZ24
MEEZ26	MEEZ26
MEEZ27	MEEZ27
MEEZ28	MEEZ28
MEEZ29	MEEZ29
MEEZ32	MEEZ32
MEEZ34	MEEZ34
MEEZ35	MEEZ35
MEEZ37	MEEZ37
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If Yes-were data generated before application of background corrections? Yes/No NO

Comments:
RCRA
SEE NARRATIVE

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: _____

Date: _____

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MEEZ01

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ01

Level (low/med): LOW Date Received: 06/12/89

% Solids: 93.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4620.00			P
7440-36-0	Antimony	7.40	U	N	P
7440-38-2	Arsenic	1.90	B		F
7440-39-3	Barium	51.70			P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.75	U		P
7440-70-2	Calcium	2010.00		E	P
7440-47-3	Chromium	16.60			P
7440-48-4	Cobalt	6.20	B		P
7440-50-8	Copper	16.40		*	P
7439-89-6	Iron	13100.00		*E	P
7439-92-1	Lead	5.50		S	F
7439-95-4	Magnesium	2480.00		E	P
7439-96-5	Manganese	260.00		NE	P
7439-97-6	Mercury	0.12		*	CV
7439-02-0	Nickel	8.80			P
7440-09-7	Potassium	679.00	B		P
7782-49-2	Selenium	0.53	U		F
7440-22-4	Silver	0.66	U		P
7440-23-5	Sodium	80.60	B		P
7440-28-0	Thallium	0.53	U		F
7440-62-2	Vanadium	20.30			P
7440-66-6	Zinc	25.20			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MEEZ02

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ02

Level (low/med): LOW Date Received: 06/12/89

% Solids: 91.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3620.00			P
7440-36-0	Antimony	7.60	U	N	P
7440-38-2	Arsenic	1.10	B		F
7440-39-3	Barium	21.80	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.77	U		P
7440-70-2	Calcium	2920.00		E	P
7440-47-3	Chromium	12.70			P
7440-48-4	Cobalt	4.40	B		P
7440-50-8	Copper	5.10	B	*	P
7439-89-6	Iron	14400.00		*E	P
7439-92-1	Lead	2.70			F
7439-95-4	Magnesium	3950.00		E	P
7439-96-5	Manganese	101.00		NE	P
7439-97-6	Mercury	0.11	U	*	CV
7439-02-0	Nickel	8.40	B		P
7440-09-7	Potassium	639.00	B		P
7782-49-2	Selenium	0.55	U		F
7440-22-4	Silver	0.68	U		P
7440-23-5	Sodium	73.20	B		P
7440-28-0	Thallium	0.55	U		F
7440-62-2	Vanadium	12.50			P
7440-66-6	Zinc	22.00			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MEEZ03

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ03

Level (low/med): LOW Date Received: 06/12/89

% Solids: 88.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1780.00			P
7440-36-0	Antimony	7.90	U	N	P
7440-38-2	Arsenic	2.10	B		F
7440-39-3	Barium	18.10	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.79	U		P
7440-70-2	Calcium	37900.00		E	P
7440-47-3	Chromium	6.90			P
7440-48-4	Cobalt	3.00	B		P
7440-50-8	Copper	7.00		*	P
7439-89-6	Iron	6740.00		*E	P
7439-92-1	Lead	2.60			F
7439-95-4	Magnesium	17400.00		E	P
7439-96-5	Manganese	200.00		NE	P
7439-97-6	Mercury	0.11	U	*	CV
7439-02-0	Nickel	5.90	B		P
7440-09-7	Potassium	348.00	B		P
7782-49-2	Selenium	0.57	U		F
7440-22-4	Silver	0.70	U		P
7440-23-5	Sodium	71.60	B		P
7440-28-0	Thallium	0.57	U		F
7440-62-2	Vanadium	7.40	B		P
7440-66-6	Zinc	12.30			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEEZ05

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ05

Level (low/med): LOW Date Received: 06/12/89

% Solids: 86.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1490.00			P
7440-36-0	Antimony	8.00	U	N	P
7440-38-2	Arsenic	1.80	B		F
7440-39-3	Barium	9.30	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.81	U		P
7440-70-2	Calcium	38200.00		E	P
7440-47-3	Chromium	5.80			P
7440-48-4	Cobalt	1.80	B		P
7440-50-8	Copper	4.50	B	*	P
7439-89-6	Iron	6700.00		*E	P
7439-92-1	Lead	1.60			F
7439-95-4	Magnesium	17400.00		E	P
7439-96-5	Manganese	118.00		NE	P
7439-97-6	Mercury	0.12	U	*	CV
7439-02-0	Nickel	4.80	B		P
7440-09-7	Potassium	301.00	B		P
7782-49-2	Selenium	0.58	U		F
7440-22-4	Silver	0.72	U		P
7440-23-5	Sodium	68.50	B		P
7440-28-0	Thallium	0.58	U		F
7440-62-2	Vanadium	5.50	B		P
7440-66-6	Zinc	7.50			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

U.S. EPA - CLP

00006

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEEZ07

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ07

Level (low/med): LOW Date Received: 06/12/89

% Solids: 85.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1310.00			P
7440-36-0	Antimony	8.10	U	N	P
7440-38-2	Arsenic	1.60	B		F
7440-39-3	Barium	9.60	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.82	U		P
7440-70-2	Calcium	37200.00		E	P
7440-47-3	Chromium	4.60			P
7440-48-4	Cobalt	1.80	B		P
7440-50-8	Copper	3.60	B	*	P
7439-89-6	Iron	4030.00		*E	P
7439-92-1	Lead	1.30			F
7439-95-4	Magnesium	10400.00		E	P
7439-96-5	Manganese	119.00		NE	P
7439-97-6	Mercury	0.12	U	*	CV
7439-02-0	Nickel	3.50	B		P
7440-09-7	Potassium	263.00	B		P
7782-49-2	Selenium	0.58	U		F
7440-22-4	Silver	0.72	U		P
7440-23-5	Sodium	57.70	B		P
7440-28-0	Thallium	0.58	U		F
7440-62-2	Vanadium	5.20	B		P
7440-66-6	Zinc	6.80			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

U.S. EPA - CLP

00007

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEEZ24

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ24

Level (low/med): LOW Date Received: 06/12/89

% Solids: 93.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5320.00			P
7440-36-0	Antimony	7.40	U	N	P
7440-38-2	Arsenic	3.00			F
7440-39-3	Barium	55.30			P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.75	U		P
7440-70-2	Calcium	19500.00		E	P
7440-47-3	Chromium	13.30			P
7440-48-4	Cobalt	5.70	B		P
7440-50-8	Copper	16.80		*	P
7439-89-6	Iron	12800.00		*E	P
7439-92-1	Lead	7.50			F
7439-95-4	Magnesium	8960.00		E	P
7439-96-5	Manganese	459.00		NE	P
7439-97-6	Mercury	0.12		*	CV
7439-02-0	Nickel	12.10			P
7440-09-7	Potassium	618.00	B		P
7782-49-2	Selenium	0.53	U		F
7440-22-4	Silver	0.66	U		P
7440-23-5	Sodium	121.00	B		P
7440-28-0	Thallium	0.53	U		F
7440-62-2	Vanadium	15.50			P
7440-66-6	Zinc	29.60			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

U.S. EPA - CLP

00008

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEEZ26

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ26

Level (low/med): LOW Date Received: 06/12/89

% Solids: 90.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2140.00			P
7440-36-0	Antimony	7.70	U	N	P
7440-38-2	Arsenic	1.60	B		F
7440-39-3	Barium	23.90	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.77	U		P
7440-70-2	Calcium	38200.00		E	P
7440-47-3	Chromium	13.40			P
7440-48-4	Cobalt	3.80	B		P
7440-50-8	Copper	8.30		*	P
7439-89-6	Iron	15700.00		*E	P
7439-92-1	Lead	2.30			F
7439-95-4	Magnesium	21000.00		E	P
7439-96-5	Manganese	438.00		NE	P
7439-97-6	Mercury	0.11	U	*	CV
7439-02-0	Nickel	10.30			P
7440-09-7	Potassium	498.00	B		P
7782-49-2	Selenium	0.55	U	W	F
7440-22-4	Silver	0.68	U		P
7440-23-5	Sodium	112.00	B		P
7440-28-0	Thallium	0.55	U		F
7440-62-2	Vanadium	9.60	B		P
7440-66-6	Zinc	12.90			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MEEZ27

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ27

Level (low/med): LOW Date Received: 06/12/89

% Solids: 84.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2460.00			P
7440-36-0	Antimony	8.20	U	N	P
7440-38-2	Arsenic	1.30	B		F
7440-39-3	Barium	23.70	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.83	U		P
7440-70-2	Calcium	45500.00		E	P
7440-47-3	Chromium	10.00			P
7440-48-4	Cobalt	4.20	B		P
7440-50-8	Copper	7.30		*	P
7439-89-6	Iron	12100.00		*E	P
7439-92-1	Lead	2.20			F
7439-95-4	Magnesium	25300.00		E	P
7439-96-5	Manganese	466.00		NE	P
7439-97-6	Mercury	0.12	U	*	CV
7439-02-0	Nickel	11.30			P
7440-09-7	Potassium	437.00	B		P
7782-49-2	Selenium	0.59	U	W	F
7440-22-4	Silver	0.73	U		P
7440-23-5	Sodium	105.00	B		P
7440-28-0	Thallium	0.59	U		F
7440-62-2	Vanadium	10.70	B		P
7440-66-6	Zinc	14.80			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MEEZ28

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ28

Level (low/med): LOW Date Received: 06/12/89

% Solids: 89.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1700.00			P
7440-36-0	Antimony	7.80	U	N	P
7440-38-2	Arsenic	0.96	B		F
7440-39-3	Barium	13.50	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.78	U		P
7440-70-2	Calcium	45400.00		E	P
7440-47-3	Chromium	5.90			P
7440-48-4	Cobalt	2.40	B		P
7440-50-8	Copper	6.10		*	P
7439-89-6	Iron	7810.00		*E	P
7439-92-1	Lead	1.70			F
7439-95-4	Magnesium	10800.00		E	P
7439-96-5	Manganese	246.00		NE	P
7439-97-6	Mercury	0.11	U	*	CV
7439-02-0	Nickel	7.30	B		P
7440-09-7	Potassium	270.00	B		P
7782-49-2	Selenium	0.56	U		F
7440-22-4	Silver	0.69	U		P
7440-23-5	Sodium	89.30	B		P
7440-28-0	Thallium	0.56	U	W	F
7440-62-2	Vanadium	8.90	B		P
7440-66-6	Zinc	9.60			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

U.S. EPA - CLP

00011

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEEZ29

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ29

Level (low/med): LOW Date Received: 06/12/89

% Solids: 91.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4870.00			P
7440-36-0	Antimony	7.60	U	N	P
7440-38-2	Arsenic	1.40	B		F
7440-39-3	Barium	35.30	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.77	U		P
7440-70-2	Calcium	12200.00		E	P
7440-47-3	Chromium	14.20			P
7440-48-4	Cobalt	6.00	B		P
7440-50-8	Copper	11.90		*	P
7439-89-6	Iron	10800.00		*E	P
7439-92-1	Lead	3.00			F
7439-95-4	Magnesium	5570.00		E	P
7439-96-5	Manganese	232.00		NE	P
7439-97-6	Mercury	0.11	U	*	CV
7439-02-0	Nickel	16.40			P
7440-09-7	Potassium	695.00	B		P
7782-49-2	Selenium	0.55	U		F
7440-22-4	Silver	0.68	U		P
7440-23-5	Sodium	133.00	B		P
7440-28-0	Thallium	0.55	U		F
7440-62-2	Vanadium	19.00			P
7440-66-6	Zinc	22.10			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MEEZ32

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ32

Level (low/med): LOW Date Received: 06/12/89

% Solids: 89.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2660.00			P
7440-36-0	Antimony	7.80	U	N	P
7440-38-2	Arsenic	1.90	B		F
7440-39-3	Barium	13.60	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.78	U		P
7440-70-2	Calcium	33700.00		E	P
7440-47-3	Chromium	8.40			P
7440-48-4	Cobalt	9.50	B		P
7440-50-8	Copper	7.50		*	P
7439-89-6	Iron	16600.00		*E	P
7439-92-1	Lead	2.30			F
7439-95-4	Magnesium	27400.00		E	P
7439-96-5	Manganese	155.00		NE	P
7439-97-6	Mercury	0.11	U	*	CV
7439-02-0	Nickel	14.00			P
7440-09-7	Potassium	510.00	B		P
7782-49-2	Selenium	0.56	U		F
7440-22-4	Silver	0.70	U		P
7440-23-5	Sodium	113.00	B		P
7440-28-0	Thallium	0.56	U		F
7440-62-2	Vanadium	12.50			P
7440-66-6	Zinc	21.70			P
	Cyanide				NR

Color Before: GREY Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEEZ34

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ34

Level (low/med): LOW Date Received: 06/12/89

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1960.00			P
7440-36-0	Antimony	8.00	U	N	P
7440-38-2	Arsenic	0.78	B		F
7440-39-3	Barium	9.80	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.80	U		P
7440-70-2	Calcium	13000.00		E	P
7440-47-3	Chromium	8.30			P
7440-48-4	Cobalt	4.90	B		P
7440-50-8	Copper	6.20		*	P
7439-89-6	Iron	11500.00		*E	P
7439-92-1	Lead	1.90			F
7439-95-4	Magnesium	11100.00		E	P
7439-96-5	Manganese	78.50		NE	P
7439-97-6	Mercury	0.11	U	*	CV
7439-02-0	Nickel	9.00	B		P
7440-09-7	Potassium	314.00	B		P
7782-49-2	Selenium	0.57	U		F
7440-22-4	Silver	0.71	U		P
7440-23-5	Sodium	133.00	B		P
7440-28-0	Thallium	0.57	U		F
7440-62-2	Vanadium	9.00	B		P
7440-66-6	Zinc	12.60			P
	Cyanide				NR

Color Before: GREY Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

U.S. EPA - CLP

00014

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEEZ35

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ35

Level (low/med): LOW Date Received: 06/12/89

% Solids: 85.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1240.00			P
7440-36-0	Antimony	8.10	U	N	P
7440-38-2	Arsenic	0.58	B		F
7440-39-3	Barium	10.10	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.82	U		P
7440-70-2	Calcium	9410.00		E	P
7440-47-3	Chromium	5.00			P
7440-48-4	Cobalt	3.50	B		P
7440-50-8	Copper	3.60	B	*	P
7439-89-6	Iron	6290.00		*E	P
7439-92-1	Lead	1.80			F
7439-95-4	Magnesium	6080.00		E	P
7439-96-5	Manganese	54.60		NE	P
7439-97-6	Mercury	0.12	U	*	CV
7439-02-0	Nickel	4.70	B		P
7440-09-7	Potassium	396.00	B		P
7782-49-2	Selenium	0.58	U		F
7440-22-4	Silver	0.72	U		P
7440-23-5	Sodium	159.00	B		P
7440-28-0	Thallium	0.58	U		F
7440-62-2	Vanadium	5.00	B		P
7440-66-6	Zinc	8.20			P
	Cyanide				NR

Color Before: GREY Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEEZ37

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Lab Sample ID: MEEZ37

Level (low/med): LOW Date Received: 06/12/89

% Solids: 88.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1380.00			P
7440-36-0	Antimony	7.90	U	N	P
7440-38-2	Arsenic	0.79	B		F
7440-39-3	Barium	12.10	B		P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.79	U		P
7440-70-2	Calcium	22700.00		E	P
7440-47-3	Chromium	4.60			P
7440-48-4	Cobalt	2.50	B		P
7440-50-8	Copper	3.80	B	*	P
7439-89-6	Iron	5990.00		*E	P
7439-92-1	Lead	3.60			F
7439-95-4	Magnesium	11400.00		E	P
7439-96-5	Manganese	292.00		NE	P
7439-97-6	Mercury	0.11	U	*	CV
7439-02-0	Nickel	5.40	B		P
7440-09-7	Potassium	239.00	B		P
7782-49-2	Selenium	0.57	U	W	F
7440-22-4	Silver	0.70	U		P
7440-23-5	Sodium	80.00	B		P
7440-28-0	Thallium	0.57	U		F
7440-62-2	Vanadium	5.50	B		P
7440-66-6	Zinc	7.80			P
	Cyanide				NR

Color Before: GREY Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED SAND AND ROCKS

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3
BLANKS

00024

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	28.5	U	32.9	B	28.5	U	28.5	U	5.700	U	P
Antimony	34.8	U	34.8	U	34.8	U	34.8	U	6.960	U	P
Arsenic	2.2	U	2.2	U	2.2	U	2.2	U	0.440	U	F
Barium	14.8	U	14.8	U	14.8	U	14.8	U	2.960	U	P
Beryllium	0.4	U	0.4	U	0.4	U	0.4	U	0.080	U	P
Cadmium	3.5	U	3.5	U	3.5	U	3.5	U	0.700	U	P
Calcium	11.0	U	18.0	B	11.0	U	16.1	B	19.884	B	P
Chromium	3.4	U	3.4	U	3.4	U	3.4	U	0.680	U	P
Cobalt	2.8	U	2.8	U	2.8	U	2.8	U	0.560	U	P
Copper	2.8	U	4.5	B	3.0	B	4.3	B	0.560	U	P
Iron	9.6	U	27.3	B	13.6	B	9.6	U	7.472	B	P
Lead	2.1	U	2.5	B	2.1	U	2.1	U	0.460	B	F
Magnesium	28.7	U	49.3	B	28.7	U	28.7	U	8.504	B	P
Manganese	0.9	U	0.9	U	0.9	U	0.9	U	0.180	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel	12.8	U	12.8	U	12.8	U	12.8	U	2.560	U	P
Potassium	594.6	U	594.6	U	594.6	U	641.2	B	118.920	U	P
Selenium	2.5	U	2.5	U	2.5	U	2.5	U	0.500	U	F
Silver	3.1	U	3.1	U	3.1	U	3.1	U	0.620	U	P
Sodium	-67.5	B	44.3	U	-134.7	B	-82.4	B	14.298	B	P
Thallium	2.5	U	2.5	U	2.5	U	2.5	U	0.500	U	F
Vanadium	2.4	U	2.4	U	2.4	U	2.4	U	0.480	U	P
Zinc	-5.6	B	-4.3	B	3.6	B	-4.1	B	0.500	U	P
Cyanide											NR

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00025

3
BLANKS

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			28.5	U	34.8	B					P
Antimony			34.8	U	34.8	U					P
Arsenic	2.2	U	2.2	U	2.2	U	2.2	U			F
Barium			14.8	U	14.8	U					P
Beryllium			0.4	U	0.4	U					P
Cadmium			3.5	U	3.5	U					P
Calcium			11.0	U	11.0	U					P
Chromium			3.4	U	3.4	U					P
Cobalt			2.8	U	2.8	U					P
Copper			2.8	U	2.8	U					P
Iron			24.0	B							P
Lead			2.1	U	2.1	U	2.1	U			F
Magnesium			39.1	B							P
Manganese			0.9	U	0.9	U					P
Mercury											
Nickel			12.8	U	12.8	U					P
Potassium			594.6	U	594.6	U					P
Selenium			2.5	U							F
Silver			3.1	U	3.1	U					P
Sodium			-92.2	B	-92.2	B					P
Thallium			2.5	U							F
Vanadium			2.4	U	2.4	U					P
Zinc			-4.8	B	-6.5	B					P
Cyanide											NR

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3
BLANKS

00026

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	3.7	B	2.2	U	3.9	B					F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium	2.5	U	2.5	U	2.5	U	2.5	U			F
Silver											
Sodium											
Thallium	2.5	U	2.5	U	2.5	U	2.5	U			F
Vanadium											
Zinc											
Cyanide											NR

U.S. EPA - CLP

00027

3
BLANKS

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			2.5	U							F
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											NR

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
MEEZ01S

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	52.1772		7.4280	U	106.7	48.9	N	P
Arsenic	75-125	9.4771		1.9424	B	8.5	88.6		F
Barium	75-125	499.3320		51.7417		426.9	104.8		P
Beryllium	75-125	10.7364		0.0854	U	10.7	100.3		P
Cadmium	75-125	11.7289		0.7471	U	10.7	109.6		P
Calcium									NR
Chromium	75-125	64.2924		16.5977		42.7	111.7		P
Cobalt	75-125	114.7834		6.1964	B	106.7	101.8		P
Copper	75-125	57.5283		16.3778		53.4	77.1		P
Iron									NR
Lead	75-125	9.0075		5.5413		4.3	80.6		F
Magnesium									NR
Manganese	75-125	398.3671		259.9915		106.7	129.7	N	P
Mercury	75-125	0.5923		0.1158		0.5	95.3		CV
Nickel	75-125	116.4482		8.8346		106.7	100.9		P
Potassium									NR
Selenium	75-125	1.8570		0.5336	U	2.1	88.4		F
Silver	75-125	8.1708		0.6617	U	10.7	76.4		P
Sodium									NR
Thallium	75-125	9.6265		0.5336	U	10.7	90.0		F
Vanadium	75-125	128.8196		20.2903		106.7	101.7		P
Zinc	75-125	134.3991		25.1569		106.7	102.4		P
Cyanide									NR

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
MEEZ37A

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Level (low/med): LOW

Concentrations Units: UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		121.75		34.80	U	120.0	101.5		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese		3561.96		1292.66		2440.0	93.0		P
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

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6
DUPLICATES

EPA SAMPLE NO.
MEEZ01D

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 93.7 % Solids for Duplicate: 92.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		4622.3247		4488.9458		2.9		P
Antimony		7.4280	U	7.4280	U			P
Arsenic	2.1	1.9424	B	2.8602		38.2		F
Barium	42.7	51.7417		52.7705		2.0		P
Beryllium		0.0854	U	0.0854	U			P
Cadmium		0.7471	U	0.7471	U			P
Calcium	1067.2	2006.6874		1922.4634		4.3		P
Chromium		16.5977		14.5699		13.0		P
Cobalt		6.1964	B	5.6350	B	9.5		P
Copper	5.3	16.3778		8.3671		64.7	*	P
Iron		13064.6748		16259.1260		21.8	*	P
Lead		5.5413		5.9765		7.6		F
Magnesium	1067.2	2484.3118		2842.6897		13.5		P
Manganese		259.9915		293.2166		12.0		P
Mercury	0.1	0.1158		0.1067	U	200.0	*	CV
Nickel	8.5	8.8346		8.9861		1.7		P
Potassium		679.2188	B	706.0876	B	3.9		P
Selenium		0.5336	U	0.5336	U			F
Silver		0.6617	U	0.6617	U			P
Sodium		80.6169	B	72.0939	B	11.2		P
Thallium		0.5336	U	0.5336	U			F
Vanadium	10.7	20.2903		20.5187		1.1		P
Zinc		25.1569		23.8719		5.2		P
Cyanide								NR

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

Lab Name: KEYSTONE-MONROEVILLE Contract: 68-W8-0025

Lab Code: KEYPA Case No.: 12095 SAS No.: SDG No.: MEEZ01

Solid LCS Source: EMSL-LV

Aqueous LCS Source: EMSL-LV

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	limits		%R
Aluminum				325.0	308.9		225.0	424.0	95.0
Antimony				211.0	200.4		127.0	294.0	95.0
Arsenic				917.0	976.0		635.0	1199.0	106.4
Barium				4.8	5.4	B	0.0	40.0	112.5
Beryllium				19.4	20.8		16.5	22.3	107.2
Cadmium				45.4	50.8		35.7	55.1	111.9
Calcium									
Chromium				99.6	113.7		79.2	120.0	114.2
Cobalt				144.0	141.1		125.0	162.0	98.0
Copper				6910.0	7683.4		6006.0	7820.0	111.2
Iron				22430.0	17836.8		17770.0	27080.0	79.5
Lead				236.0	213.2		188.0	[illegible]	90.3
Magnesium				118100.0	242356.0		100400.0	129[illegible]	205.2
Manganese				208.0	230.0		177.0	[illegible]	110.6
Mercury				12.7	13.2		8.5	17.0	103.9
Nickel				60.9	53.7		49.2	72.6	88.2
Potassium				50.0	251.9	B	0.0	1000.0	503.8
Selenium				39.2	34.4		19.1	59.4	87.8
Silver				22.2	19.0		15.5	29.0	85.6
Sodium				50.0	65.0	B	0.0	1000.0	130.0
Thallium				39.0	42.7		24.6	53.5	109.5
Vanadium				65.8	72.0		51.7	79.9	109.4
Zinc				187.0	148.8		138.0	236.0	79.6
Cyanide									